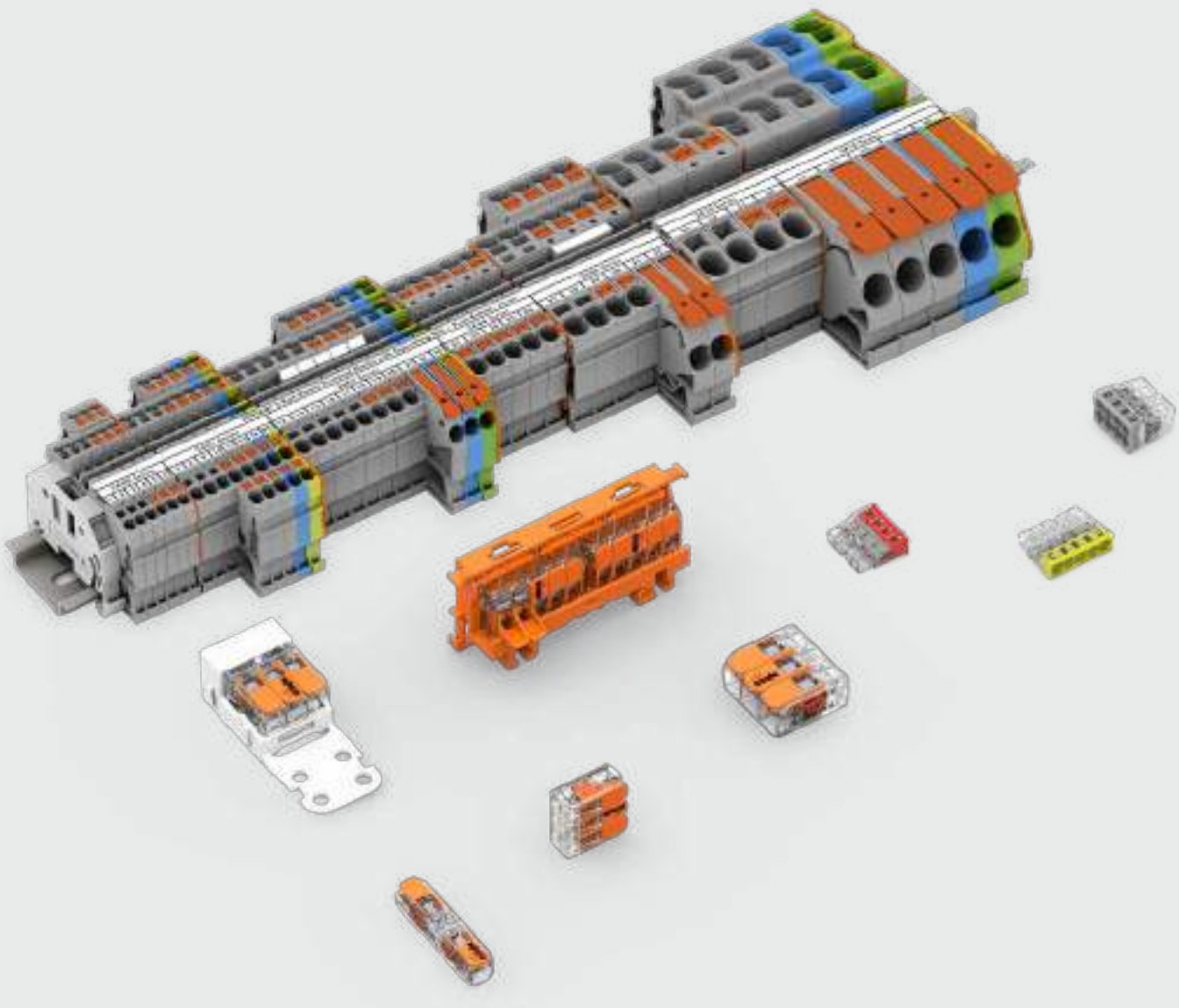
WAGO Rail-Mount Terminal Blocks and Connectors

Edition 2023/2024



WAGO Full Line Catalogs



WAGO Rail-Mount Terminal Blocks and Connectors

- Rail-Mount Terminal Blocks
- Rail-Mount Terminal Blocks with Pluggable Connector (X-COM®-SYSTEM)
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield Connecting System



WAGO PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
- THR/SMD PCB Terminal Blocks
- *MULTI CONNECTION SYSTEM (MCS)*
- Pluggable PCB Terminal Blocks
- Feedthrough Terminal Blocks
- Specialty Connectors
- Empty Housings



WAGO Pluggable Connection System *WINSTA*®

- Pluggable Connectors
- Snap-In Device Connectors
- Pluggable PCB Connectors
- Distribution Connectors
- Cable Assemblies
- Flat Cable Systems
- Distribution Boxes



WAGO Automation Technology

- Solutions & Software
- Operating & Monitoring
- Controllers, Edge Devices
- Modular I/O-SYSTEM IP20, I/O-SYSTEM IP67
- Industrial Switches
- Radio Technology
- IP67 Sensor/Actuator Boxes, IP67 Cables and Connectors



WAGO Interface Electronics

- Relay and Optocoupler Modules
- Signal Conditioners and Isolation Amplifiers
- Current and Energy Measurement Technology
- Power Supplies
- Interface Modules and System Wiring
- Overvoltage Protection
- Empty Housings



WAGO Power Supplies

- Power Supplies
- DC/DC Converters
- Circuit Protection
- UPS-Charger and Capacitive Buffer Modules
- Redundancy Moduls
- Current and Energy Measurement Technology
- Overvoltage Protection



WAGO Marking

- Printer
- Software
- Terminal Block Marking
- Cable and Conductor Marking
- Device Marking
- Marker Carriers

WAGO Rail-Mount Terminal Blocks and Connectors

			Page	
	**WAGO Rail-Mount Terminal Blocks TOPJOB® S** Front-Entry Wiring	Push-in CAGE CLAMP® 1 … 16 (25 “f-st”) mm² / 16 … 4 AWG for DIN-35 rail	23	1
	**WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®S-SYSTEM** Front-Entry Wiring	Push-in CAGE CLAMP® 1 … 2.5 (4) mm² / 16 … 12 AWG for DIN-35 rail	191	2
	**WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S** Front-Entry Wiring	Push-in CAGE CLAMP® 1 … 4 (6) mm² / 16 … 10 AWG for DIN-35 rail	237	3
	**WAGO Miniature Rail-Mount Terminal Blocks TOPJOB® S** Front-Entry Wiring	Push-in CAGE CLAMP® 0.14 … 1 (1.5) mm² / 24 … 16 AWG for DIN-35 rail	279	4
	**WAGO High-Current Rail-Mount Terminal Blocks** Side-Entry Wiring	POWER CAGE CLAMP 35 … 185 mm² / 2 AWG … 350 kcmil, 1500 V nominal voltage, for DIN-35 rail	295	5
	**WAGO Rail-Mount Terminal Blocks “Classic”** **WAGO Installation Rail-Mount Terminal Blocks TOPJOB® “Classic”** Front-Entry Wiring	CAGE CLAMP® 1.5 … 35 mm² / 16 … 2 AWG for DIN-35 rail	309	6
	**WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®-SYSTEM** Front-Entry Wiring	CAGE CLAMP® 2.5 (4) mm² / 12 AWG for DIN-35 rail	429	7
	**WAGO Rail-Mount Terminal Blocks “Mini”** **WAGO Rail-Mount Terminal Blocks “Compact”** Front-Entry Wiring	CAGE CLAMP® 2.5 mm² (4 mm²) / 12 AWG for DIN-35 and DIN-15 rails	501	8
	**WAGO Modular Terminal Blocks and WAGO Terminal Strips** Side-/Front-Entry Wiring	CAGE CLAMP® 1.5 … 4 mm² / 16 … 12 AWG for panel mounting	525	9
	**WAGO Chassis-Mount Terminal Strips** **WAGO Field-Wiring Terminal Blocks** Side-Entry Wiring	Push-in CAGE CLAMP® 2.5 mm² / 22 AWG, 4 mm² / 12 AWG for panel mounting	555	10
	**WAGO Rail-Mount Terminal Blocks “Classic”** Side-Entry Wiring	CAGE CLAMP® 1.5 … 16 mm² / 16 … 6 AWG for DIN-35 rail	577	11
	**WAGO Patchboard Systems** **WAGO Busbar Terminal Blocks**	CAGE CLAMP® 1.5 … 16 mm² / 16 … 6 AWG	589	12
	**WAGO Splicing Connectors** **WAGO Lighting Connectors**		613	13
	**WAGO Accessories and WAGO Tools**		665	14
	**Technical Section**		727	15
	**Indexes** Current addresses at www.wago.com		779	16

Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Through terminal blocks; with lever and Push-in CAGE CLAMP®



Page 26

Ground conductor terminal blocks; with lever and Push-in CAGE CLAMP®



Page 26

Through terminal blocks; with lever and push-button



Page 31

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Ground conductor terminal blocks; with lever and push-button



Page 31

Through terminal blocks; with push-button



Page 36

Ground conductor terminal blocks; with push-button



Page 36

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Through terminal blocks



Page 52

Ground conductor terminal blocks



Page 52

Shield terminal blocks



Page 54

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Double-potential terminal blocks



Page 53

Distribution terminal block; with push-button



Page 66

Distribution terminal block



Page 67

Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Double-deck terminal blocks; with push-button



Page 70

Double-deck terminal blocks



Page 72

Double-deck disconnect terminal blocks



Page 86

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Double-deck carrier terminal blocks



Page 86

Double-deck fuse terminal blocks



Page 87

Triple-deck terminal block; with push-button



Page 88

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Triple-deck terminal blocks



Page 90

Quadruple-deck rail-mount terminal blocks as rail-mount terminal blocks for electric motor wiring



Page 92

Disconnect and test terminal blocks; with push-button



Page 94

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Fuse terminal blocks; with push-button; for mini-automotive blade-style fuse



Page 94

Fused disconnect terminal blocks with a pivoting fuse holder; with push-button



Page 104

Through terminal blocks; with push-button



Page 95

Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Disconnect and test terminal blocks



Page 106

Fuse terminal blocks for mini-automotive blade-style fuses



Page 106

Fused disconnect terminal blocks with a pivoting fuse holder for glass cartridge fuses



Page 116

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Through terminal blocks



Page 109

Ground conductor disconnect terminal blocks



Page 116

Ground conductor disconnect terminal blocks; with push-buttom



Page 118

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Carrier terminal blocks; with push-button



Page 94

Carrier terminal blocks



Page 107

Fuse plugs on carrier terminal blocks



Page 140

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Terminal Blocks Assembly; for Current and Voltage Transformers



Page 138

Sensor and actuator terminal blocks



Page 146

Sensor and actuator terminal blocks; with a pluggable signal level



Page 151

Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Diode terminal blocks



Page 154

LED terminal blocks



Page 154

Empty component plug housings



Page 161

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Diode modules



Page 160

LED modules



Page 162

Component plugs



Page 166

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Double-deck disconnect/test terminal blocks



Page 168

Double-deck carrier terminal blocks



Page 170

Multilevel diode terminal blocks and LED terminal blocks



Page 172

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM-MINI

Carrier terminal blocks



Page 194

Ground carrier terminal blocks



Page 194

Double-deck carrier terminal blocks



Page 196

Product Overview

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM-MINI

1-conductor female plugs



Page 198

2-conductor female plugs



Page 198

Female plugs for self-assembly



Page 200

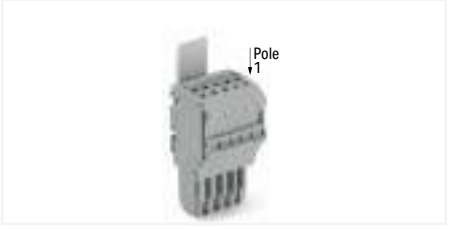
WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM-MINI

Pre-assembled female plugs



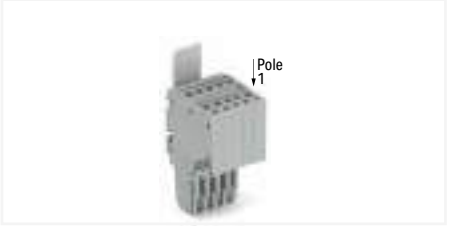
Page 202

1-conductor female plugs; with locking levers and strain relief plates



Page 206

2-conductor female plugs; with locking levers and strain relief plates



Page 208

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM

Carrier terminal blocks; with push-button



Page 210

Carrier terminal blocks



Page 212

Ground carrier terminal blocks



Page 212

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM

Carrier terminal blocks



Page 214

Double-deck carrier terminal blocks



Page 216

Female plugs



Page 218

Product Overview

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM

Female plugs for self-assembly



Page 220

Pre-assembled female plugs



Page 222

Female plugs; with locking levers and strain relief plates



Page 224

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM; for Ex applications

Carrier terminal blocks; with push-button; for Ex ec applications



Page 226

Carrier terminal blocks; for Ex ec applications



Page 228

Ground carrier terminal blocks; for Ex ec applications



Page 228

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM; for Ex applications

Double-deck carrier terminal blocks; for Ex ec applications



Page 232

Female plugs; for Ex ec applications



Page 234

Pre-assembled female plugs; for Ex ec applications



Page 235

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Multilevel installation terminal blocks; with operating slot and push-button



Page 240

Multilevel installation terminal blocks; with push-button



Page 252

Multilevel installation terminal blocks; with an N-disconnect slide link; 2.5 (4) mm²



Page 256

Product Overview

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Multilevel installation terminal blocks; with an internal N-disconnection



Page 258

Multilevel installation terminal blocks; with an N-disconnect slide link; 4 (6) mm² (10 AWG)



Page 264

Double-fuse plugs



Page 262

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

N-conductor disconnect terminal blocks and power distribution disconnect terminal blocks; with push-button



Page 266

N-conductor disconnect terminal blocks and power distribution disconnect terminal blocks



Page 268

Supply Terminal Block for Distribution Boxes



Page 270

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Mminiature through terminal blocks; with push-button; for DIN-15 rail



Page 282

Mminiature ground conductor terminal blocks; with push-button; for DIN-15 rail



Page 282

Mminiature through terminal blocks; with push-button; with mounting flange or snap-in mounting foot



Page 286

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Mminiature through terminal blocks; with push-button; for DIN-15 rail



Page 284

Mminiature ground conductor terminal blocks; with push-button; for DIN-15 rail



Page 284

Mminiature through terminal blocks; with push-button; with mounting flange or snap-in mounting foot



Page 286

Product Overview

WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 35 mm² (2 AWG)



Page 298

Ground conductor terminal blocks; 35 mm² (2 AWG)



Page 298

Power taps; for high-current terminal blocks 35 mm² (2 AWG)



Page 298

WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 50 mm² (1/0 AWG)



Page 302

Ground conductor terminal blocks; 50 mm² (1/0 AWG)



Page 302

Through terminal blocks with mounting flanges; 50 mm² (1/0 AWG)



Page 303

WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 95 mm² (4/0 AWG)



Page 304

Ground conductor terminal blocks; 95 mm² (4/0 AWG)



Page 304

Through terminal blocks with mounting flanges; 95 mm² (4/0 AWG)



Page 305

WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 185 mm² (350 kcmil)



Page 306

Ground conductor terminal blocks; 185 mm² (350 kcmil)



Page 306

Through terminal blocks with mounting flanges; 185 mm² (350 kcmil)



Page 307

Product Overview

WAGO High-Current Rail-Mount Terminal Blocks

Power taps; for high-current terminal blocks 50 mm² (1/0 AWG)



Page 302

Power taps; for high-current terminal blocks 95 mm² (4/0 AWG)



Page 304

Power taps; for high-current terminal blocks 185 mm² (350 kcmil)



Page 306

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Through terminal blocks



Page 312

Ground conductor terminal blocks



Page 312

Shield terminal blocks



Page 312

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Double-potential terminal blocks



Page 313

Distribution terminal blocks



Page 340

Double-deck terminal blocks



Page 328

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Triple-deck terminal blocks



Page 338

Quadruple-deck rail-mount terminal blocks as rail-mount terminal blocks for electric motor wiring



Page 340

Double- and triple-deck carrier terminal blocks; for fuse plug



Page 334

Product Overview

WAGO Rail-Mount Terminal Blocks, TOPJOB® Classic; with CAGE CLAMP® Connection

Through terminal blocks



Page 343

Ground conductor terminal blocks



Page 343

N-conductor disconnect terminal blocks and power distribution disconnect terminal blocks



Page 347

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Disconnect and test terminal blocks



Page 352

Disconnect and test terminal blocks



Page 354

Disconnect/test terminal blocks; for current and voltage transformer circuits



Page 362

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Ground conductor disconnect terminal blocks



Page 368

Fuse terminal blocks for mini-automotive blade-style fuses



Page 370

Fused disconnect terminal blocks with a pivoting fuse holder for glass cartridge fuses



Page 374

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Fuse terminal blocks; for Class CC fuses and 10 x 38 mm (13⁄32" x 1½") cylindrical fuses



Page 382

Fuse plugs on carrier terminal blocks



Page 378

Sensor and actuator terminal blocks



Page 390

Product Overview

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Diode terminal blocks



Page 406

LED terminal blocks



Page 406

Multilevel diode terminal blocks and LED terminal blocks



Page 412

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Diode modules



Page 416

LED modules



Page 418

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Carrier terminal blocks



Page 436

Ground carrier terminal blocks



Page 436

Disconnect carrier terminal blocks



Page 448

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Diode carrier terminal blocks



Page 448

LED carrier terminal blocks



Page 450

Carrier terminal blocks; for pluggable modules



Page 458

Product Overview

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Double-deck carrier terminal blocks



Page 466

Male connectors; with CAGE CLAMP® connection



Page 476

Male headers; with solder pins



Page 480

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Female plugs; with/without lateral locking lever



Page 486

Female plugs for self-assembly



Page 490

Pre-assembled female plugs



Page 492

WAGO Rail-Mount Terminal Blocks, Mini; with CAGE CLAMP® Connection

Through terminal blocks; for DIN-35 rail



Page 504

Ground conductor terminal blocks; for DIN-35 rail



Page 504

Through terminal blocks Ex e II; for DIN-35 rail



Page 504

WAGO Rail-Mount Terminal Blocks, Mini; with CAGE CLAMP® Connection

Through terminal blocks; for DIN-15 rail



Page 505

Ground conductor terminal blocks; for DIN-15 rail



Page 505

Through terminal blocks Ex e II; for DIN-15 rail



Page 505

Product Overview

WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Through terminal blocks; for DIN-35 rail



Page 508

Ground conductor terminal blocks; for DIN-35 rail



Page 508

Through terminal blocks Ex e II; for DIN-15 rail



Page 508

WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Through terminal blocks; for DIN-15 rail



Page 509

Ground conductor terminal blocks; for DIN-15 rail



Page 509

Through terminal blocks Ex e II; for DIN-15 rail



Page 509

WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Double-potential terminal blocks



Page 509

Double-deck terminal blocks



Page 510

Triple-deck terminal blocks



Page 512

WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Multilevel diode and LED terminal blocks



Page 514

Pluggable tap-off modules



Page 519

Sensor and actuator terminal blocks



Page 521

Product Overview

WAGO Modular Terminal Blocks and WAGO Terminal Strips

Modular terminal blocks



Page 528

Terminal strips; with mounting flanges



Page 527

Terminal strips; with snap-in mounting feet



Page 527

WAGO Modular Terminal Blocks and WAGO Terminal Strips

Modular terminal blocks



Page 532

Terminal strips; with mounting flanges



Page 534

Terminal strips; with snap-in mounting feet



Page 534

WAGO Modular Terminal Blocks and WAGO Terminal Strips

Modular terminal blocks



Page 538

Terminal strips; with mounting flanges



Page 539

Terminal strips; with snap-in mounting feet



Page 539

WAGO Chassis-Mount Terminal Strips
WAGO Field-Wiring Terminal Blocks

4-conductor chassis-mount terminal strips



Page 558

Field-wiring terminal blocks



Page 567

Product Overview

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Through terminal blocks



Page 570

Ground conductor terminal blocks



Page 570

Disconnect and test terminal blocks



Page 584

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection

Ground conductor disconnect terminal blocks



Page 585

Fused disconnect terminal blocks; for glass cartridge fuses



Page 586

WAGO Patchboard Systems

Matrix patchboards



Page 592

Matrix patchboards; with push-buttons



Page 597

Additional modules



Page 600

WAGO Patchboard Systems

Terminal blocks for matrix patching



Page 604

Common potential terminal blocks



Page 605

3-conductor, double-potential terminal blocks or terminal blocks for matrix patching



Page 609

Product Overview

WAGO Busbar Terminal Blocks

Busbar terminal blocks



Page 611

Ground busbar terminal blocks



Page 611

Insulated busbar carriers



Page 611

WAGO PUSH WIRE® Connectors for Junction Boxes

COMPACT PUSH WIRE® connector for junction boxes



Page 615

COMPACT PUSH WIRE® connector for junction boxes



Page 615

Mounting carriers



Page 615

WAGO PUSH WIRE® Connectors for Junction Boxes

PUSH WIRE® connectors for junction boxes



Page 618

Ex PUSH WIRE® connectors for junction boxes



Page 620

Mounting carriers



Page 617

WAGO PUSH WIRE® Connectors for Junction Boxes

MICRO PUSH WIRE® connectors for junction boxes



Page 624

MICRO PUSH WIRE® connectors for junction boxes



Page 624

Mounting carriers



Page 625

Product Overview

WAGO Splicing Connectors for All Conductor Types

COMPACT splicing connectors for all conductor types; 4 mm²/12 AWG



Page 627

Mounting carriers



Page 629

Mounting carrier; for 4 mm²/12 AWG single connectors



Page 631

WAGO Splicing Connectors for All Conductor Types

COMPACT splicing connectors for all conductor types; 4 mm²/12 AWG; for Ex eb applications



Page 636

Mounting carriers; for Ex eb applications



Page 636

Gelboxes; for splicing connectors



Page 641

WAGO Splicing Connectors for All Conductor Types

COMPACT splicing connectors for all conductor types; 6 mm²/10 AWG



Page 633

Mounting carriers



Page 633

COMPACT splicing connectors for all conductor types; 6 mm²/10 AWG; for Ex eb applications



Page 637

WAGO Splicing Connectors

Junction boxes; for 221 Series Splicing Connectors (4 mm²)



Page 645

WAGO Splicing Connectors

Inline Splicing Connectors



Page 647

Mounting carriers



Page 649

Product Overview

WAGO Splicing Connectors for All Conductor Types

CLASSIC splicing connectors for all conductor types



Page 653

Mounting carriers



Page 655

WAGO Lighting Connectors

Luminaire disconnect connectors



Page 652

WAGO Lighting Connectors

Lighting connectors



Page 657

Lighting connectors



Page 657

"Service" connectors



Page 657

WAGO Splicing Connector Set

Vario-T-BOXX



Page 658

L-BOXX® 102



Page 658

Splicing connector sets



Page 660

Product Overview

WAGO Shield Connection System

Shield clamping saddles



Page 628

Shield clamping saddles



Page 671

Busbar carriers



Page 673

WAGO Marking Systems

Marker cards

Page 684

WMB Inline markers



Page 684

Marking strips



Page 684

WAGO Marking Systems

Marker carriers



Page 695

Marker carriers



Page 693

Marking cards; self-adhesive marking strips



Page 686

WAGO Mounting Accessories

Screwless end stops; DIN-35 rail



Page 702

DIN-35 rails



Page 700

Collective jumper carriers



Page 701

Product Overview

WAGO Mounting Accessories

Covers



Page 705

Screwless end stops; DIN-15 rail



Page 707

DIN-15 rails



Page 707

WAGO Tools

Operating tools



Page 708

Operating tools



Page 708

Operating tools



Page 709

WAGO Tools

Cable cutter



Page 720

Cable stripper



Page 710

Wire strippers



Page 713

WAGO Tools

Crimping tools



Page 714

Ferrules

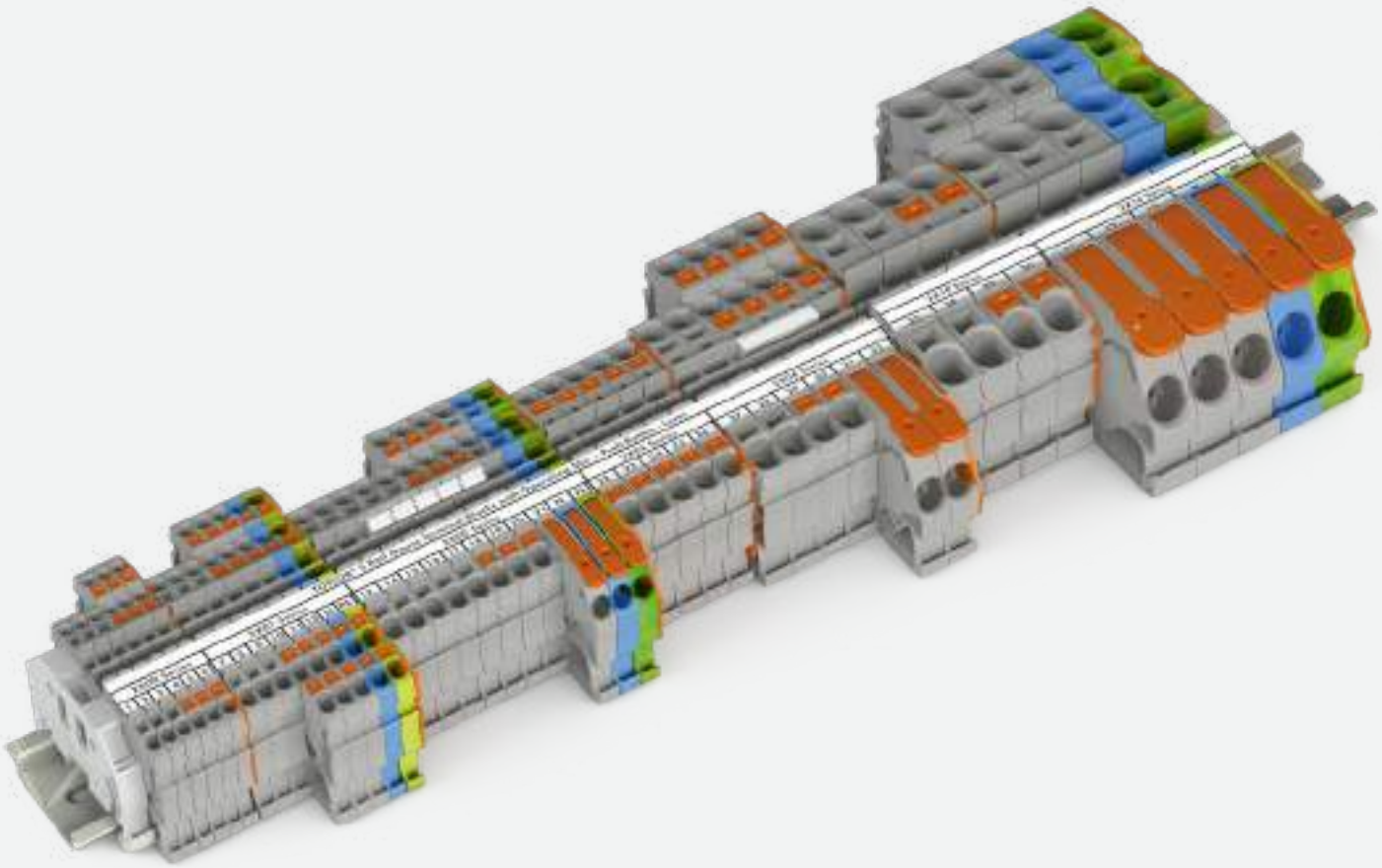


Page 715

Measurement devices



Page 721



WAGO Rail-Mount Terminal Blocks TOPJOB® S

PUSH-IN CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks TOPJOB® S

			Page
	**Through Terminal Blocks and Ground Conductor Terminal Blocks; with Levers and Push-in CAGE CLAMP®**	2102 … 2116 Series	26
	Through Terminal Blocks and Ground Conductor Terminal Blocks; with Levers and Push-Buttons 0.25 … 16 (25 “f-st”) mm² (22 … 4 AWG)	2102 … 2116 Series	31
	**Through Terminal Blocks and Ground Conductor Terminal Blocks; with Push-Buttons** 0.14 … 16 (25 “f-st”) mm² (24 … 4 AWG)	2200 … 2216 Series	36
	Distribution Terminal Blocks TOPJOB® S; with/without Push-Button 1 x 6 (10) mm² / 8 AWG and 6 x 1.5 (2.5) mm² / 14 AWG	2206/2006 Series	66
	**Through Terminal Blocks, Ground Conductor Terminal Blocks and Shield Conductor Terminal Blocks** 0.14 … 16 (25 “f-st”) mm² (24 … 4 AWG)	2000 … 2016 Series	52
	Multilevel Rail-Mount Terminal Blocks; with/without Push-Buttons 1 (1.5) mm² (16 AWG) and 2.5 (4) mm² (12 AWG)	2202/2000/2002 Series	70
	**Disconnect/Test Terminal Blocks, Fuse Terminal Blocks and Through Terminal Blocks; with/without Push-Buttons** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2202/2002 Series	94
	**Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder; with/ without Push-Buttons** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2202/2002 Series	104
	**Disconnect Terminal Blocks, Ground Conductor Disconnect Terminal Blocks and Fuse Terminal Blocks; with/without Push-Buttons** 0.5 … 6 (10) mm² (20 … 8 AWG)	2206/2006 Series	122
	**Disconnect/Test Terminal Blocks; for Current and Voltage Transformer Circuits** 0.5 … 6 (10) mm² (20 … 8 AWG)	2007 Series	136
	**Fuse Plugs on Carrier Terminal Blocks**	2004/2006 Series	140
	**Sensor Terminal Blocks and Actuator Terminal Blocks** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2000/2020 Series	146
	**Diode Terminal Blocks and LED Terminal Blocks** 0.25 … 4 (6) mm² (22 … 10 AWG)	2001/2002/2004 Series	146
	Multilevel Diode Terminal Blocks and LED Terminal Blocks 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2002 Series	172
	**Diode Modules, LED Modules and Empty Component Plugs Housing**	2002 Series	160
	**Accessories for Rail-Mount Terminal Blocks TOPJOB® S**		176

1

Rail-Mount Terminal Blocks TOPJOB® S; with Levers and Push-in CAGE CLAMP®
2102 to 2116 Series
Description and Installation



Push-in termination of solid conductors



Push-in termination of fine-stranded conductors with ferrules



Pull the lever up until it stops, then connect the fine-stranded conductor.



Push the lever back down – done!



Insert push-in type jumper bar and push down until it hits backstop.





Snapping a marking strip into the marker slot.



Snapping a marking strip into the marker slot.



Testing with a 2 mm Ø test plug (max. 42 V).



Push-in CAGE CLAMP® terminates the following copper conductors:
solid “s”



stranded “st”



fine-stranded “f-st”, also with tinned single strands

PUSH-IN CAGE CLAMP®

Rail-Mount Terminal Blocks TOPJOB® S; with Push-Buttons and Push-in CAGE CLAMP®
2200 to 2216 Series
Description and Installation


Push-in termination of solid and ferruled conductors


Insert fine-stranded conductors via operating tool.


Removing all conductors via operating tool.




Insert push-in type jumper bar and push down until it hits backstop.


Commoning with step-down jumpers.


Snapping a marking strip into the marker slot.


Snapping a marking strip into the marker slot.


Testing with a 2 mm Ø test plug (max. 42 V).


fine-stranded, tip-bonded


fine-stranded, with ferrule (gastight crimped)


fine-stranded, with pin terminal (gastight crimped)

PUSH-IN CAGE CLAMP®

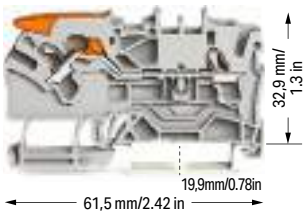
Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

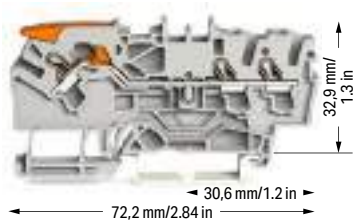
2.5 (4) mm²; 2102 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (30 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	





❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 23.5 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2102-1201 ❹	50
blue	2102-1204 ❸ ❹	50

3-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2102-1301 ❹	50
blue	2102-1304 ❸ ❹	50

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2102-1207 ❹	50

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2102-1307 ❹	50

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2102-1292	100 (25)
gray	2102-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2102-1392	100 (25)
gray	2102-1391	100 (25)

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

L-type test plug module; snaps together



gray	2002-611	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

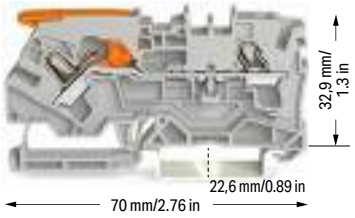
plain	793-5501	5

PUSH-IN CAGE CLAMP®

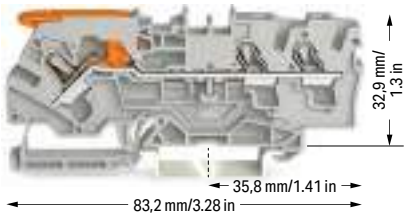
Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

4 (6) mm²; 2104 Series

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (40 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (40 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



❶ Conductor range: 0.5 … 6 mm² "s+f-st"
Push-in termination: 1.5 … 6 mm² "s" and 1.5 … 4 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 30 A
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2104-1201 ❹	50
blue	2104-1204 ❸ ❹	50

3-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2104-1301 ❹	50
blue	2104-1304 ❸ ❹	50

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2104-1207 ❹	50

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2104-1307 ❹	50

Item-Specific Accessories

End and intermediate plate; 0.8 mm thick



orange	2104-1292	100 (25)
gray	2104-1291	100 (25)

Item-Specific Accessories

End and intermediate plate; 0.8 mm thick



orange	2104-1392	100 (25)
gray	2104-1391	100 (25)

Accessories; 2104 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2004-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2004-115	100 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2004-405/011-000	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2004-406/020-000	

Modular connector; snaps together; for jumper contact slot



gray	2004-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2004-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Accessories; 2104 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

6 (10) mm²; 2106 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (55 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	

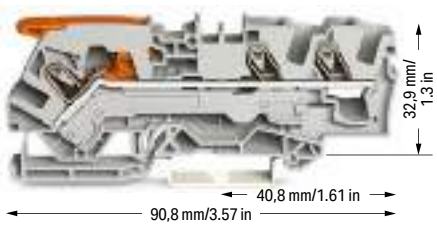


2-conductor through terminal block; with lever and Push-in CAGE CLAMP®		
Color	Item No.	Pack. Unit
gray	2106-1201 ❹	25
blue	2106-1204 ❸ ❹	25

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®		
green-yellow	2106-1207 ❹	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2106-1292	100 (25)
	gray	2106-1291	100 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (55 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



3-conductor through terminal block; with lever and Push-in CAGE CLAMP®		
Color	Item No.	Pack. Unit
gray	2106-1301 ❹	25
blue	2106-1304 ❸ ❹	25

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®		
green-yellow	2106-1307 ❹	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2106-1392	100 (25)
	gray	2106-1391	100 (25)

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 41 A
33 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2106 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2006-402	25
	3-way	2006-403	25
	4-way	2006-404	25
	5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2006-433	25
	1 to 4	2006-434	25
	1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2006-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2006-115	100 (25)

Lockout cap; for conductor entry and operating slot			
	gray	2006-191	25

Modular connector; snaps together; for jumper contact slot			
	gray	2006-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2006-549	50 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

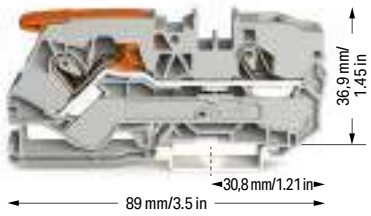
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

10 (16) mm²; 2110 Series

Technical Data	
0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	

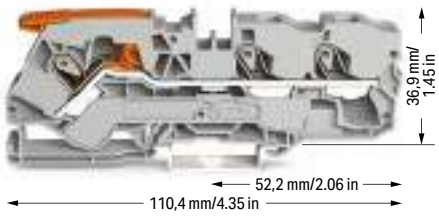


2-conductor through terminal block; with lever and Push-in CAGE CLAMP®		
Color	Item No.	Pack. Unit
gray	2110-1201 ❹	25
blue	2110-1204 ❸ ❹	25

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®		
green-yellow	2110-1207 ❹	25

Item-Specific Accessories			
End and intermediate plate; 1 mm thick			
	orange	2110-1292	100 (25)
	gray	2110-1291	100 (25)

Technical Data	
0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



3-conductor through terminal block; with lever and Push-in CAGE CLAMP®		
Color	Item No.	Pack. Unit
gray	2110-1301 ❹	25
blue	2110-1304 ❸ ❹	25

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®		
green-yellow	2110-1307 ❹	25

Item-Specific Accessories			
End and intermediate plate; 1 mm thick			
	orange	2110-1392	100 (25)
	gray	2110-1391	100 (25)

Accessories; 2110 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 57 A; light gray			
	2-way	2010-402	25
	3-way	2010-403	25
	4-way	2010-404	25
	5-way	2010-405	25

Push-in type jumper bar; insulated; I_N 57 A; light gray			
	1 to 3	2010-433	25
	1 to 4	2010-434	25
	1 to 5	2010-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2010-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2010-115	100 (25)

Finger guard; touch-proof cover protects unused conductor entries			
	yellow	2010-100	100 (25)

Modular connector; snaps together; for jumper contact slot			
	gray	2010-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2010-549	50 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² "s+f-st"
Push-in termination: 4 … 16 mm² "s" and 4 … 10 mm² "insulated ferrules, 18 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 57 A
50 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

16 (25 “f-st”) mm²; 2116 Series

1

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 78 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



2-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2116-1201	20
blue	2116-1204 ❸	20

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

Color	Item No.	Pack. Unit
green-yellow	2116-1207	20

Accessories; item-specific

End and intermediate plate; 1 mm thick



	orange	2116-1292	100 (25)
	gray	2116-1291	100 (25)

Accessories; 2116 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 76 A; light gray



	2-way	2016-402	25
	3-way	2016-403	25
	4-way	2016-404	25
	5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 76 A; light gray



	1 to 3	2016-433	25
	1 to 4	2016-434	25
	1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



	1-3-5	2016-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



	yellow	2016-115	100 (25)

Three-phase set; with orange end plate; with a lever and Push-in CAGE CLAMP®

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!



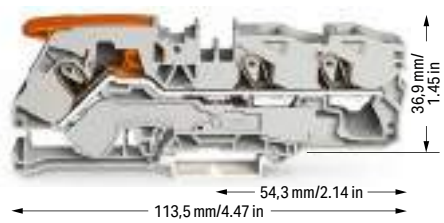
		2116-1201/605-038	1

Finger guard; touch-proof cover protects unused conductor entries



	yellow	2016-100	100 (25)

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 78 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



3-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2116-1301	20
blue	2116-1304 ❸	20

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

Color	Item No.	Pack. Unit
green-yellow	2116-1307	20

Accessories; item-specific

End and intermediate plate; 1 mm thick



	orange	2116-1392	100 (25)
	gray	2116-1391	100 (25)

Modular connector; snaps together; for jumper contact slot



	gray	2016-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks



	gray	2016-549	50 (25)

Test plug adapter; for 4 mm Ø test plug



	gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



	gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

	plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 76 A
65 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 179
Marking, from page 684

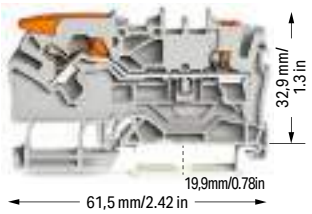
Approvals and corresponding ratings, visit www.wago.com

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button

2.5 (4) mm²; 2102 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2102-5201 ❹	50
blue	2102-5204 ❸ ❹	50

2-conductor ground terminal block; with lever and push-button		
green-yellow	2102-5207 ❹	50

Accessories; item-specific

End and intermediate plate; 0.8 mm thick



orange	2102-1292	100 (25)
gray	2102-1291	100 (25)

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



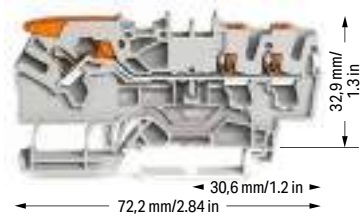
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (30 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2102-5301 ❹	50
blue	2102-5304 ❸ ❹	50

3-conductor ground terminal block; with lever and push-button		
green-yellow	2102-5307 ❹	50

Accessories; item-specific

End and intermediate plate; 0.8 mm thick



orange	2102-1392	100 (25)
gray	2102-1391	100 (25)

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 23.5 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

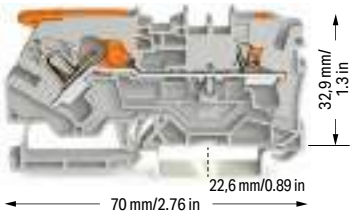
plain	793-5501	5

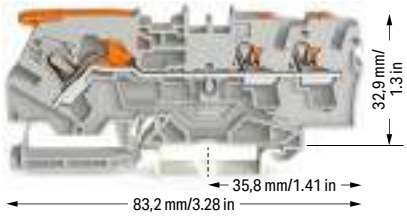
Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button
4 (6) mm²; 2104 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (40 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (40 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	





2-conductor through terminal block; with lever and push-button

Color	Item No.	Pack. Unit
gray	2104-5201 ❹	50
blue	2104-5204 ❸ ❹	50

3-conductor through terminal block; with lever and push-button

Color	Item No.	Pack. Unit
gray	2104-5301 ❹	50
blue	2104-5304 ❸ ❹	50

2-conductor ground terminal block; with lever and push-button

green-yellow	2104-5207 ❹	50

3-conductor ground terminal block; with lever and push-button

green-yellow	2104-5307 ❹	50

Item-Specific Accessories

End and intermediate plate; 0.8 mm thick



orange	2104-1292	100 (25)
gray	2104-1291	100 (25)

Item-Specific Accessories

End and intermediate plate; 0.8 mm thick



orange	2104-1392	100 (25)
gray	2104-1391	100 (25)

Accessories; 2104 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2004-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2004-405/011-000	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2004-406/020-000	

Modular connector; snaps together; for jumper contact slot



gray	2004-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2004-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

❶ Conductor range: 0.5 … 6 mm² "s+f-st"
Push-in termination: 1.5 … 6 mm² "s" and 1.5 … 4 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 28 A
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2104 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

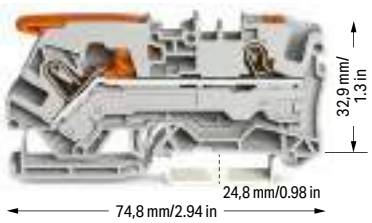
plain	793-5501	5

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button

6 (10) mm²; 2106 Series

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (55 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	

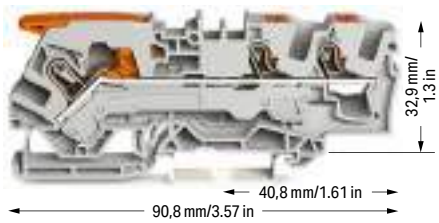


2-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2106-5201 ❹	25
blue	2106-5204 ❸ ❹	25

2-conductor ground terminal block; with lever and push-button		
green-yellow	2106-5207 ❹	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2106-1292	100 (25)
	gray	2106-1291	100 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (55 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



3-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2106-5301 ❹	25
blue	2106-5304 ❸ ❹	25

3-conductor ground terminal block; with lever and push-button		
green-yellow	2106-5307 ❹	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2106-1392	100 (25)
	gray	2106-1391	100 (25)

Accessories; 2106 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2006-402	25
	3-way	2006-403	25
	4-way	2006-404	25
	5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2006-433	25
	1 to 4	2006-434	25
	1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2006-405/011-000	25

Lockout cap; for conductor entry and operating slot			
	gray	2006-191	25

Modular connector; snaps together; for jumper contact slot			
	gray	2006-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2006-549	50 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

❶ Conductor range: 0.5 … 10 mm² “s+f-st”; Push-in termination: 2.5 … 10 mm² “s” and 2.5 … 6 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 41 A
33 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

PUSH-IN CAGE CLAMP®

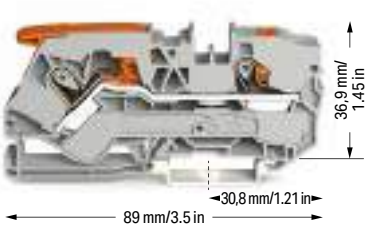
Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button

10 (16) mm²; 2110 Series

1

Technical Data

0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



2-conductor through terminal block; with lever and push-button

Color	Item No.	Pack. Unit
gray	2110-5201 ❹	25
blue	2110-5204 ❸ ❹	25

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2110-5207 ❹	25

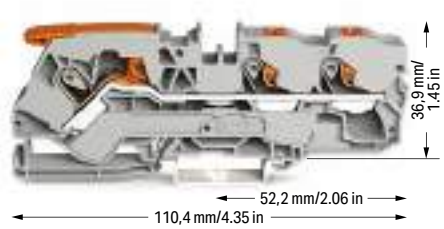
Item-Specific Accessories

End and intermediate plate; 1 mm thick

	orange	2110-1292	100 (25)
	gray	2110-1291	100 (25)

Technical Data

0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



3-conductor through terminal block; with lever and push-button

Color	Item No.	Pack. Unit
gray	2110-5301 ❹	25
blue	2110-5304 ❸ ❹	25

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2110-5307 ❹	25

Item-Specific Accessories

End and intermediate plate; 1 mm thick

	orange	2110-1392	100 (25)
	gray	2110-1391	100 (25)

❶ Conductor range: 0.5 … 16 mm² "s+f-st"
Push-in termination: 4 … 16 mm² "s" and 4 … 10 mm² "insulated ferrules, 18 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 57 A
50 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2110 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 57 A; light gray

2-way	2010-402	25
3-way	2010-403	25
4-way	2010-404	25
5-way	2010-405	25

Push-in type jumper bar; insulated; I_N 57 A; light gray

1 to 3	2010-433	25
1 to 4	2010-434	25
1 to 5	2010-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2010-405/011-000	25

Finger guard; touch-proof cover protects unused conductor entries

yellow	2010-100	100 (25)

Modular connector; snaps together; for jumper contact slot

gray	2010-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2010-549	50 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

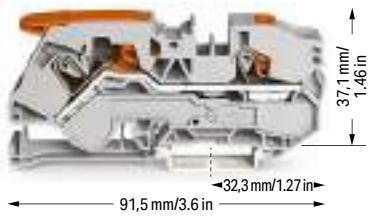
plain	793-5501	5

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button

16 (25 “f-st”) mm²; 2116 Series

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 78 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



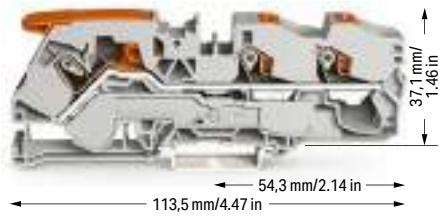
2-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2116-5201 ❹	20
blue	2116-5204 ❸ ❹	20

2-conductor ground terminal block; with lever and push-button 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2116-5207 ❹	20

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2116-1292	100 (25)
	gray	2116-1291	100 (25)

Accessories; 2116 Series			
Appropriate marking systems: WMB/WMB Inline/Marking strips			
Push-in type jumper bar; insulated; I_N 76 A; light gray			
	2-way	2016-402	25
	3-way	2016-403	25
	4-way	2016-404	25
	5-way	2016-405	25
Push-in type jumper bar; insulated; I_N 76 A; light gray			
	1 to 3	2016-433	25
	1 to 4	2016-434	25
	1 to 5	2016-435	25
Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2016-405/011-000	25
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	2016-100	100 (25)
Modular connector; snaps together; for jumper contact slot			
	gray	2016-511	50 (25)
Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2016-549	50 (25)

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 78 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



3-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2116-5301 ❹	20
blue	2116-5304 ❸ ❹	20

3-conductor ground terminal block; with lever and push-button 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2116-5307 ❹	20

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2116-1392	100 (25)
	gray	2116-1391	100 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)
Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 76 A
65 A jumper
(see Section 15)

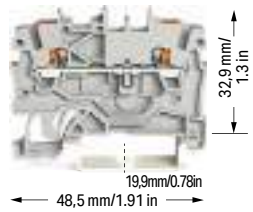
Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 179
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button
1 (1.5) mm²; 2200 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

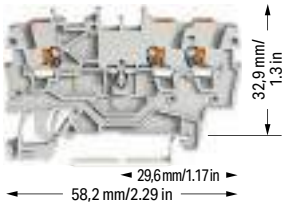


2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2200-1201 ❹	100
blue	2200-1204 ❸ ❹	100

2-conductor ground terminal block; with push-button		
green-yellow	2200-1207 ❹	100

Accessories; item-specific			
End and intermediate plate; 0.7 mm thick			
	orange	2000-1292	100 (25)
	gray	2000-1291	100 (25)
Ex e/Ex i separator; orange; 3 mm thick			
	90 mm	209-190	50 (25)
	120 mm	209-191	50 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

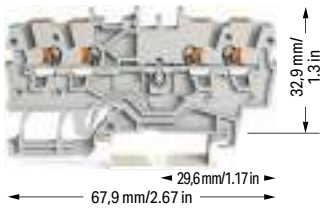


3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2200-1301 ❹	100
blue	2200-1304 ❸ ❹	100

3-conductor ground terminal block; with push-button		
green-yellow	2200-1307 ❹	100

Accessories; item-specific			
End and intermediate plate; 0.7 mm thick			
	orange	2000-1392	100 (25)
	gray	2000-1391	100 (25)
Ex e/Ex i separator; orange; 3 mm thick			
	120 mm	209-191	50 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



4-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2200-1401 ❹	100
blue	2200-1404 ❸ ❹	100

4-conductor ground terminal block; with push-button		
green-yellow	2200-1407 ❹	100

Accessories; item-specific			
End and intermediate plate; 0.7 mm thick			
	orange	2000-1492	100 (25)
	gray	2000-1491	100 (25)
Ex e/Ex i separator; orange; 3 mm thick			
	120 mm	209-191	50 (25)

Accessories; 2200 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 13.5 A; light gray		
2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 13.5 A; light gray		
1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray		
1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray		
1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A		
L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Modular connector; snaps together; for jumper contact slot Terminal block width: 5 mm / 0.197 inch		
gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot		
gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks		
gray	2000-549	100 (25)

Test plug adapter; for 4 mm Ø test plug		
gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²		
gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel		
white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel		
white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width		
plain	793-3501	5

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 13 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

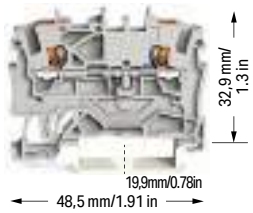
Approvals and corresponding ratings,
visit www.wago.com

Through Terminal Block, Ground Conductor Terminal Block, Double-Potential Terminal Block TOPJOB® S; with Push-Button

1.5 (2.5) mm²; 2201 Series

1

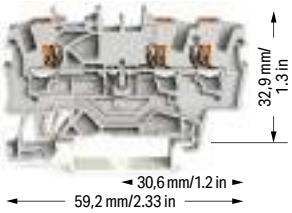
Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2201-1201 ❹	100
blue	2201-1204 ❸ ❹	100
dark gray-yellow	2201-1201/000-053 ❹	100

2-conductor ground terminal block; with push-button		
green-yellow	2201-1207 ❹	100

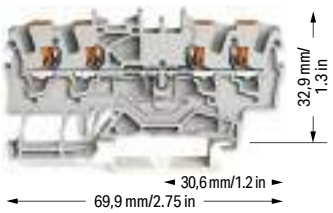
Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2201-1301 ❹	100
blue	2201-1304 ❸ ❹	100
orange	2201-1302 ❹	100
dark gray-yellow	2201-1301/000-053 ❹	100

3-conductor ground terminal block; with push-button		
green-yellow	2201-1307 ❹	100

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



4-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2201-1401 ❹	100
blue	2201-1404 ❸ ❹	100
dark gray-yellow	2201-1401/000-053 ❹	100

4-conductor ground terminal block; with push-button		
green-yellow	2201-1407 ❹	100

Accessories; item-specific

End and intermediate plate; 0.8 mm thick			
orange	2002-1292	100 (25)	
gray	2002-1291	100 (25)	

Separator; oversized; 2 mm thick			
orange	2002-1294	100 (25)	
gray	2002-1293	100 (25)	

Ex e/Ex i separator; orange; 3 mm thick			
90 mm	209-190	50 (25)	
120 mm	209-191	50 (25)	

Accessories; item-specific

End and intermediate plate; 0.8 mm thick			
orange	2002-1392	100 (25)	
gray	2002-1391	100 (25)	

Separator; oversized; 2 mm thick			
orange	2002-1394	100 (25)	
gray	2002-1393	100 (25)	

Ex e/Ex i separator; orange; 3 mm thick			
120 mm	209-191	50 (25)	

Accessories; item-specific

End and intermediate plate; 0.8 mm thick			
orange	2002-1492	100 (25)	
gray	2002-1491	100 (25)	

Separator; oversized; 2 mm thick			
orange	2002-1494	100 (25)	
gray	2002-1493	100 (25)	

Ex e/Ex i separator; orange; 3 mm thick			
120 mm	209-191	50 (25)	

Accessories; 2201 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
light gray	2001-171	200 (25)	

Push-in type jumper bar; insulated; I_N 17.5 A; light gray			
2-way	2001-402	25	
3-way	2001-403	25	
4-way	2001-404	25	
5-way	2001-405	25	
6-way	2001-406	25	
7-way	2001-407	25	
8-way	2001-408	25	
9-way	2001-409	25	
10-way	2001-410	25	

Push-in type jumper bar; insulated; I_N 17.5 A; light gray			
1 to 3	2001-433	25	
1 to 4	2001-434	25	
1 to 5	2001-435	25	
1 to 6	2001-436	25	
1 to 7	2001-437	25	
1 to 8	2001-438	25	
1 to 9	2001-439	25	
1 to 10	2001-440	25	

Delta jumper; insulated; I_N = I_N terminal block; light gray			
1-2 3-4 5-6	2001-406/020-000	25	

Star point jumper; insulated; I_N = I_N terminal block; light gray			
1-3-5	2001-405/011-000	25	

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A			
L = 60 mm	2009-412	100 (10)	
L = 110 mm	2009-414	100 (10)	
L = 250 mm	2009-416	100 (10)	

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A			
light gray	2006-499	25	

Modular connector; snaps together; for jumper contact slot			
gray	2001-511	100 (25)	

Test plug adapter; for 4 mm Ø test plug			
gray	2009-174	100 (25)	

Testing tap; for max. 2.5 mm²			
gray	2009-182	100 (25)	

Marking strip; plain; 11 mm wide; 50 m reel			
white	2009-110	1	

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable			
white	2009-114	1	

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable			
plain	793-4501	5	

❶ Conductor range: 0.25 … 2.5 mm² “s+f-st”;
Push-in termination: 0.75 … 2.5 mm² “s” and
0.75 … 1.5 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 17.5 A
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



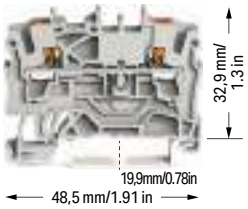
Step-down jumper (2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2206/2204 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2204/2202/2201 Series).

Through Terminal Block, Ground Conductor Terminal Block, Double-Potential Terminal Block TOPJOB® S; with Push-Button

2.5 (4) mm²; 2202 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2202-1201 ❹	100
blue	2202-1204 ❸ ❹	100
orange	2202-1202 ❹	100
red	2202-1203 ❹	100
black	2202-1205 ❹	100
yellow	2202-1206 ❹	100
black	2202-1209 ❹	100

2-conductor ground terminal block; with push-button

green-yellow	2202-1207 ❹	100

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

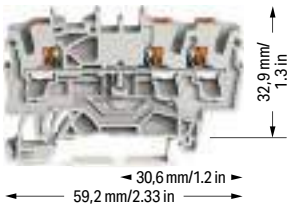
Separator; oversized; 2 mm thick

orange	2002-1294	100 (25)
gray	2002-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2202-1301 ❹	100
blue	2202-1304 ❸ ❹	100
orange	2202-1302 ❹	100
red	2202-1303 ❹	100
black	2202-1305 ❹	100
yellow	2202-1306 ❹	100
black	2202-1309 ❹	100

3-conductor ground terminal block; with push-button

green-yellow	2202-1307 ❹	100

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

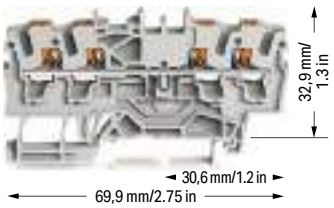
Separator; oversized; 2 mm thick

orange	2002-1394	100 (25)
gray	2002-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2202-1401 ❹	100
blue	2202-1404 ❸ ❹	100
orange	2202-1402 ❹	100
red	2202-1403 ❹	100
black	2202-1405 ❹	100
yellow	2202-1406 ❹	100
black	2202-1409 ❹	100

4-conductor ground terminal block; with push-button

green-yellow	2202-1407 ❹	100

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray

1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray

3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Step-down jumper (2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2206/2204 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2204/2202/2201 Series).

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A



light gray	**2006-499**	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	**2009-412**	100 (10)
L = 110 mm	**2009-414**	100 (10)
L = 250 mm	**2009-416**	100 (10)

Modular connector; snaps together; for jumper contact slot



gray	**2002-511**	100 (25)

L-type test plug module; snaps together



gray	**2002-611**	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	**2009-174**	100 (25)

Testing tap; for max. 2.5 mm²



gray	**2009-182**	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	**2009-110**	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	**2009-115**	1

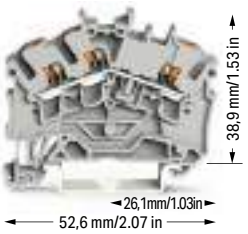
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	**793-5501**	5

Through Terminal Block, Ground Conductor Terminal Block, TOPJOB® S; with Push-Button
2.5 (4) mm²; 2202 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 21 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

3-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2202-6301 ❹	100
blue	2202-6304 ❸ ❹	100
orange	2202-6302 ❹	100
red	2202-6303 ❹	100
black	2202-6305 ❹	100
yellow	2202-6306 ❹	100

3-conductor ground terminal block; with push-button

green-yellow	2202-6307 ❹	100

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-6392	100 (25)
gray	2002-6391	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A; 1 to 3



light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

L-type test plug module; snaps together



gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks



gray	2002-649	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button
2.5 (4) mm²; 2202 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block; with push-button
Notice: This terminal block cannot be commoned with push-in type jumper bars!

Color	Item No.	Pack. Unit
gray	2202-6401 ❹	100
blue	2202-6404 ❸ ❹	100
orange	2202-6402 ❹	100
red	2202-6403 ❹	100
black	2202-6405 ❹	100
yellow	2202-6406 ❹	100

4-conductor ground terminal block; with push-button

green-yellow	2202-6407 ❹	100

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-6392	100 (25)
gray	2002-6391	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 21 A
20 A jumper
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



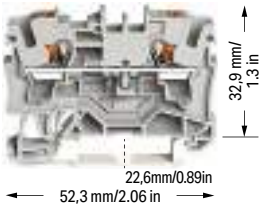
3- and 4-conductor terminal blocks (angled type):
WAGO’s Rail-Mount Terminal Blocks TOPJOB® S have a 35-degree conductor entry angle permitting a very small bend radius and an extremely short wiring distance to the cable duct. These are space- and cost-saving solutions for switchgear and control cabinet applications that use the LSC wiring system from Lütze. The design allows cable duct to be placed very close to the terminal blocks, keeping its height relatively low.

Product features:
- Push-in CAGE CLAMP® connection for all conductor types, with the additional benefit of solid, stranded and fine-stranded conductors with ferrules being simply pushed in
- Vibration-proof, fast, maintenance-free
- 3-conductor through and ground conductor terminal blocks equipped with a dual jumper slot
- 4-conductor terminal blocks permit potential multiplication – no additional jumpers or terminal blocks needed
- 3- and 4-conductor terminal blocks have the same dimensions.
- An end plate must be applied when changing from a 3-conductor terminal block to a 4-conductor terminal block and vice versa.

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button
4 (6) mm²; 2204 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2204-1201 ❹	50
blue	2204-1204 ❸ ❹	50
orange	2204-1202 ❹	50
red	2204-1203 ❹	50
black	2204-1205 ❹	50
yellow	2204-1206 ❹	50
light gray	2204-1209 ❹	50

2-conductor ground terminal block; with push-button

green-yellow	2204-1207 ❹	50

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2004-1292	100 (25)
gray	2004-1291	100 (25)

Separator; oversized; 2 mm thick



orange	2004-1294	100 (25)
gray	2004-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; 2204 Series

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



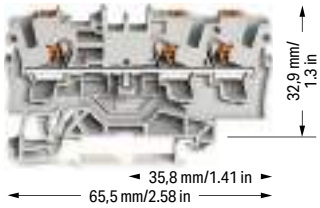
dark gray	2004-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



3-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2204-1301 ❹	50
blue	2204-1304 ❸ ❹	50
orange	2204-1302 ❹	50
red	2204-1303 ❹	50
black	2204-1305 ❹	50
yellow	2204-1306 ❹	50
light gray	2204-1309 ❹	50

3-conductor ground terminal block; with push-button

green-yellow	2204-1307 ❹	50

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2004-1392	100 (25)
gray	2004-1391	100 (25)

Separator; oversized; 2 mm thick



orange	2004-1394	100 (25)
gray	2004-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Accessories; 2204 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



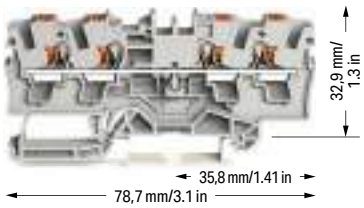
1-3-5	2004-405/011-000	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2004-406/020-000	

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



4-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2204-1401 ❹	50
blue	2204-1404 ❸ ❹	50
orange	2204-1402 ❹	50
red	2204-1403 ❹	50
black	2204-1405 ❹	50
yellow	2204-1406 ❹	50
light gray	2204-1409 ❹	50

4-conductor ground terminal block; with push-button

green-yellow	2204-1407 ❹	50

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2004-1492	100 (25)
gray	2004-1491	100 (25)

Separator; oversized; 2 mm thick



orange	2004-1494	100 (25)
gray	2004-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Accessories; 2204 Series

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A



light gray	2006-499	25

Modular connector; snaps together; for jumper contact slot



gray	2004-511	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 31 A
30 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



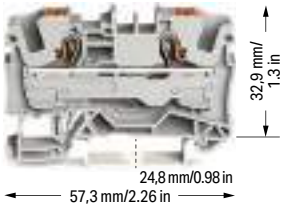
Step-down jumper (2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2206/2204 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2204/2202/2201 Series).

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button
6 (10) mm²; 2206 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (57 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	

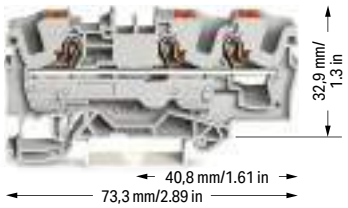


2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2206-1201 ❹	50
blue	2206-1204 ❸ ❹	50

2-conductor ground terminal block; with push-button		
green-yellow	2206-1207 ❹	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2006-1292	100 (25)
	gray	2006-1291	100 (25)
Separator; oversized; 2 mm thick			
	orange	2006-1294	100 (25)
	gray	2006-1293	100 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (57 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2206-1301 ❹	25
blue	2206-1304 ❸ ❹	25
red	2206-1303 ❹	25
black	2206-1305 ❹	25

3-conductor ground terminal block; with push-button		
green-yellow	2206-1307 ❹	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2006-1392	100 (25)
	gray	2006-1391	100 (25)
Separator; oversized; 2 mm thick			
	orange	2006-1394	100 (25)
	gray	2006-1393	100 (25)

Accessories; 2206 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick			
	120 mm	209-191	50 (25)
Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2006-402	25
	3-way	2006-403	25
	4-way	2006-404	25
	5-way	2006-405	25
Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2006-433	25
	1 to 4	2006-434	25
	1 to 5	2006-435	25
Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2006-405/011-000	25
Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A			
	light gray	2006-499	25
Modular connector; snaps together; for jumper contact slot			
	gray	2006-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2006-549	50 (25)
Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)
Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 41 A
33 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Step-down jumper (2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2206/2204 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2204/2202/2201 Series).

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button
10 (16) mm²; 2210 Series

Technical Data	
0,5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A (76 A)	600 V, 64 A
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



2-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2210-1201 ❹	25
blue	2210-1204 ❸ ❹	25
red	2210-1203 ❹	25
black	2210-1205 ❹	25

2-conductor ground terminal block; with push-button

green-yellow	2210-1207 ❹	25

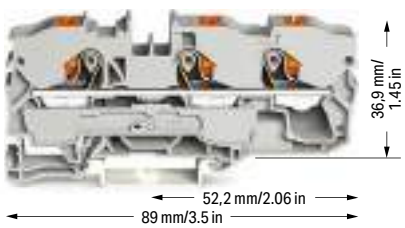
Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2010-1292	100 (25)
gray	2010-1291	100 (25)

Technical Data	
0,5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A (76 A)	600 V, 64 A
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



3-conductor through terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2210-1301 ❹	25
blue	2210-1304 ❸ ❹	25
red	2210-1303 ❹	25
black	2210-1305 ❹	25

3-conductor ground terminal block; with push-button

green-yellow	2210-1307 ❹	25

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2010-1392	100 (25)
gray	2010-1391	100 (25)

Accessories; 2210 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 57 A; light gray



2-way	2010-402	25
3-way	2010-403	25
4-way	2010-404	25
5-way	2010-405	25

Push-in type jumper bar; insulated; I_N 57 A; light gray



1 to 3	2010-433	25
1 to 4	2010-434	25
1 to 5	2010-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2010-405/011-000	25

Step-down jumper; insulated; commons 16/10 mm² (8/10 AWG) to 10/6/4/2.5 mm² (8/10/12/14 AWG); I_N 57 A



light gray	2016-499	25

Finger guard; touch-proof cover protects unused conductor entries



yellow	2010-100	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2010-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2010-549	50 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² "s+f-st"; Push-in termination: 4 … 16 mm² "s" and 4 … 10 mm² "insulated ferrules; 18 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 54 A
50 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

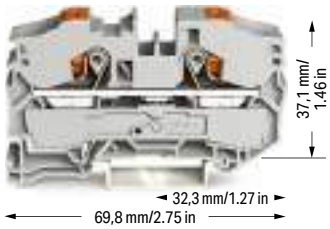
PUSH-IN CAGE CLAMP®

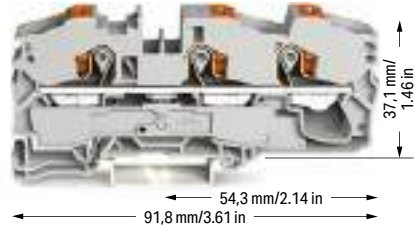
Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button
16 (25 “f-st”) mm²; 2216 Series

1

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 85 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 85 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	





2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2216-1201 ❹	20
blue	2216-1204 ❸ ❹	20
red	2216-1203 ❹	20
black	2216-1205 ❹	20

3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2216-1301 ❹	20
blue	2216-1304 ❸ ❹	20
red	2216-1303 ❹	20
black	2216-1305 ❹	20

2-conductor ground terminal block; with push-button 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2216-1207 ❹	50

3-conductor ground terminal block; with push-button 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2216-1307 ❹	20

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2016-1292	100 (25)
gray	2016-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2016-1392	100 (25)
gray	2016-1391	100 (25)

Accessories; 2216 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 76 A; light gray



2-way	2016-402	25
3-way	2016-403	25
4-way	2016-404	25
5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 76 A; light gray



1 to 3	2016-433	25
1 to 4	2016-434	25
1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2016-405/011-000	25

Step-down jumper; insulated; commons 16/10 mm² (8/10 AWG) to 10/6/4/2.5 mm² (8/10/12/14 AWG); I_N 57 A



light gray	2016-499	25

Finger guard; touch-proof cover protects unused conductor entries



yellow	2016-100	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2016-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2016-549	50 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 76 A
65 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 179
Marking, from page 684

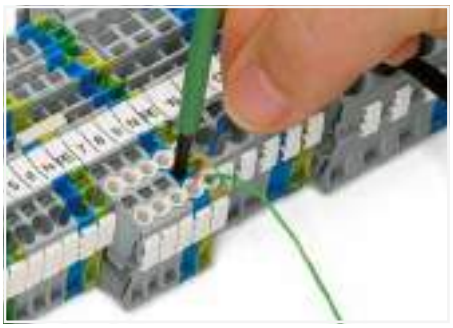
Approvals and corresponding ratings, visit www.wago.com

Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP®
2000 to 2016 Series
Description and Installation

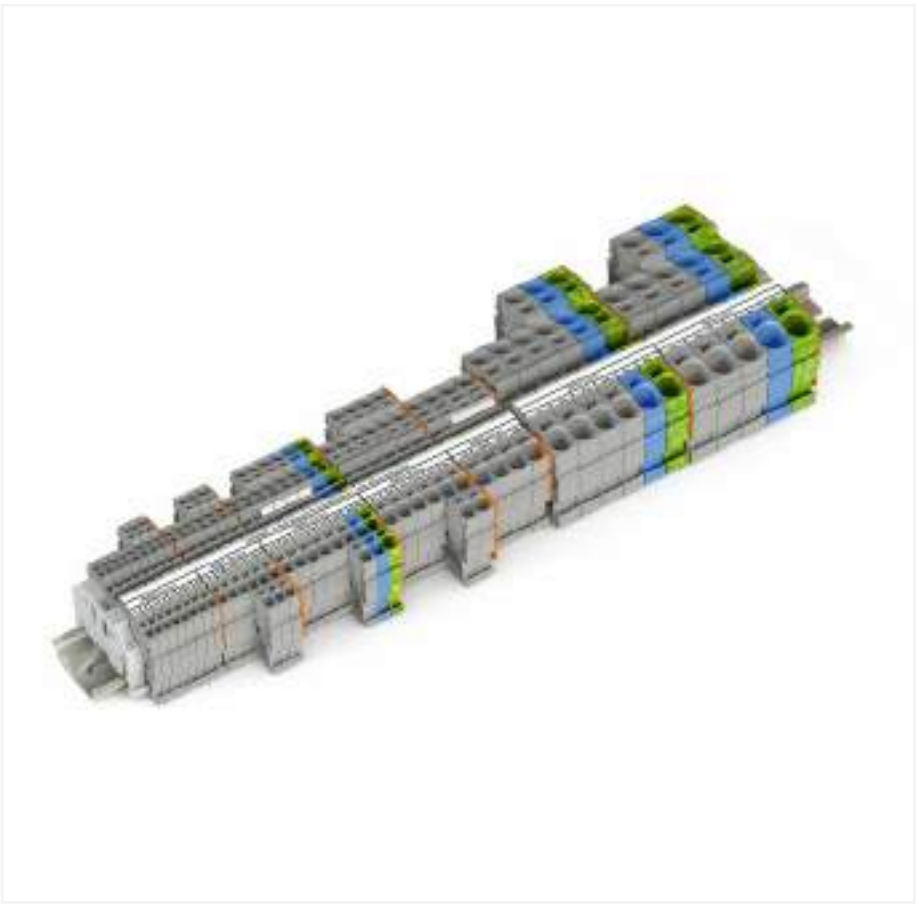
1


Push-in termination of solid and ferruled conductors


Insert fine-stranded conductors via operating tool.


Conductor termination – insulation stop


Insert push-in type jumper bar and push down until it hits backstop.




Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).


Push-in type jumper bar:
Marking with a felt-tip pen.


Commoning with step-down jumpers.


This star point jumper was specifically developed to create a "star point" and is used on motor terminal boards equipped with Rail-Mount Terminal Blocks TOPJOB® S.


Push-in CAGE CLAMP® terminates the following copper conductors:
solid "s"


stranded "st"


fine-stranded "f-st", also with tinned single strands

PUSH-IN CAGE CLAMP®



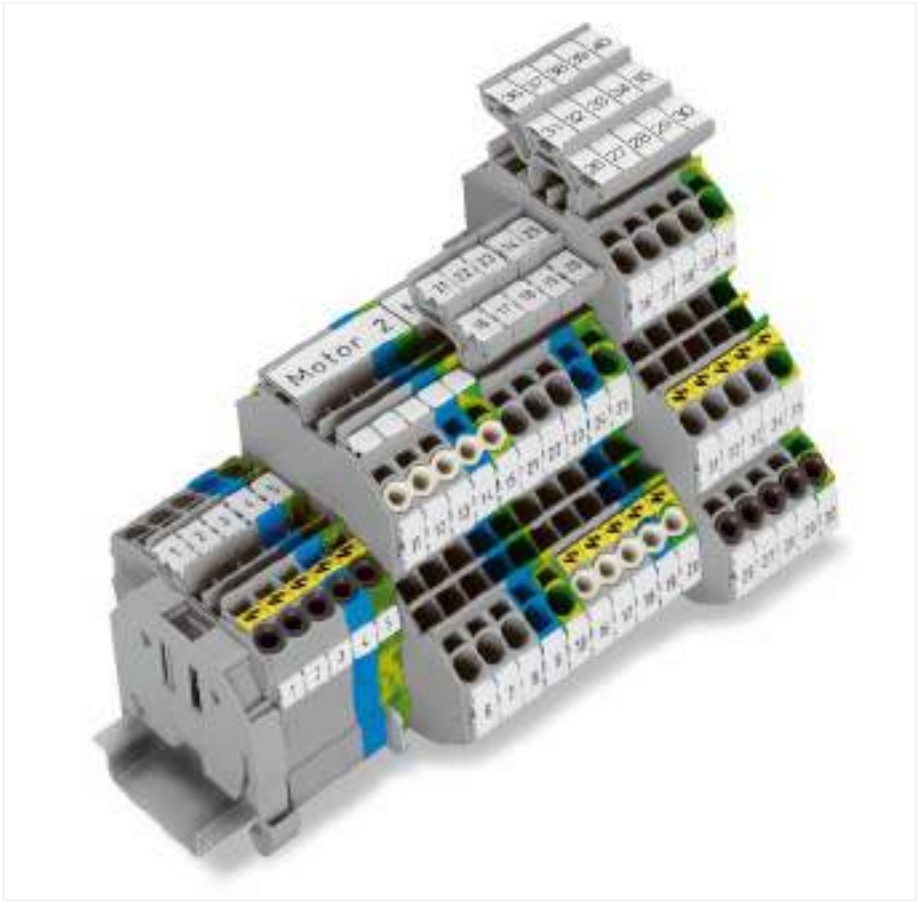
Rail-mount terminal block assembly for electric motor wiring



L-type test plug modules fitted in a triple-deck terminal block



Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

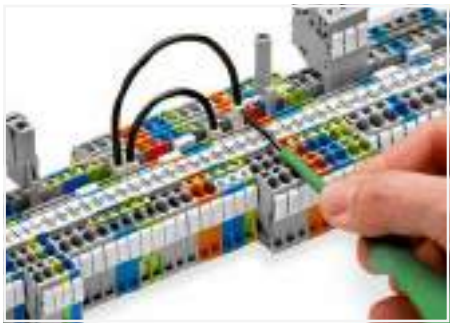




Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series



Group marker carrier (2009-163) for marking strips (2009-110)



Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.



Snapping a marking strip into the marker slot.



Snapping a marking strip into the marker slot.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



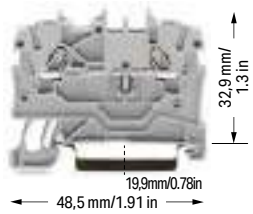
fine-stranded, with pin terminal (gastight crimped)

Through Terminal Block, Ground Conductor Terminal Block, Double-Potential Terminal Block TOPJOB® S

1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2000-1201 ❹	100
blue	2000-1204 ❸ ❹	100
orange	2000-1202 ❹	100
red	2000-1203 ❹	100
black	2000-1205 ❹	100
yellow	2000-1206 ❹	100

2-conductor ground terminal block

green-yellow	2000-1207 ❹	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick



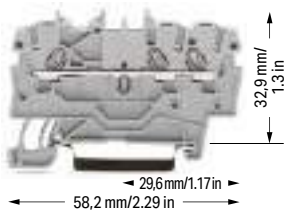
orange	2000-1292	100 (25)
gray	2000-1291	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2000-1301 ❹	100
blue	2000-1304 ❸ ❹	100
orange	2000-1302 ❹	100
red	2000-1303 ❹	100
black	2000-1305 ❹	100
yellow	2000-1306 ❹	100

3-conductor ground terminal block

green-yellow	2000-1307 ❹	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick



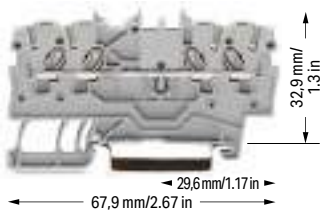
orange	2000-1392	100 (25)
gray	2000-1391	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2000-1401 ❹	100
blue	2000-1404 ❸ ❹	100
orange	2000-1402 ❹	100
red	2000-1403 ❹	100
black	2000-1405 ❹	100
yellow	2000-1406 ❹	100

4-conductor ground terminal block

green-yellow	2000-1407 ❹	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick



orange	2000-1492	100 (25)
gray	2000-1491	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Accessories; 2000 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch



gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2000-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



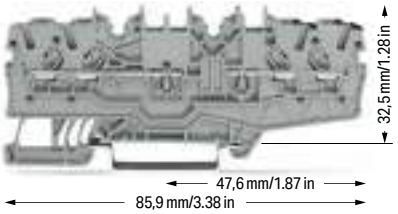
gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 13.5 A (17.5 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

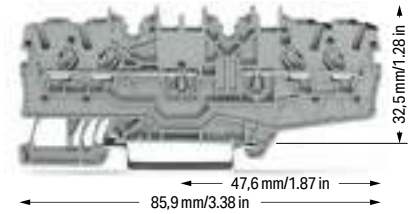
❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 13 A
12 A jumper
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Double-potential terminal block; both potentials can be commoned

Color	Item No.	Pack. Unit
gray	2000-2141 ❹	50



Front-entry double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 3.5 mm. This achieves a width of just 1.75 mm versus standard through terminal blocks. Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.



Standard and quick marking options:
Three marker slots are available for both individual markers and marking strips.

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

	orange	2000-2196	100 (25)
	gray	2000-2195	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

	white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

	white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

	plain	793-3501	5



2009-193 Group Marker Carrier (equipped with marking strips) for all 2001 to 2016 Series Rail-Mount Terminal Blocks TOPJOB® S
Do not use on an end plate!



Standard and quick marking options:
Four marker slots (double-potential terminal blocks) are available for both individual markers and marking strips.

Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block, Double-Potential Terminal Block TOPJOB® S

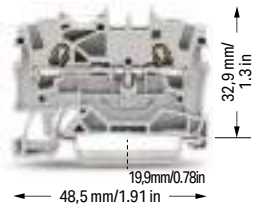
1.5 (2.5) mm²; 2001 Series

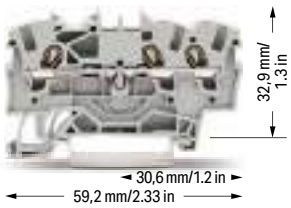
1

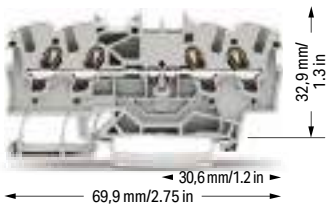
Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	







2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2001-1201 ❹	100
blue	2001-1204 ❸ ❹	100
orange	2001-1202 ❹	100
red	2001-1203 ❹	100
black	2001-1205 ❹	100
yellow	2001-1206 ❹	100
dark gray-yellow	2001-1201/000-053 ❹	100

2-conductor ground terminal block

green-yellow	2001-1207 ❹	100

2-conductor shield terminal block

white	2001-1208	100

Other terminal blocks with the same profile:

Diode	2001-1211/1000-411	Page 146

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

	orange	2002-1292	100 (25)
	gray	2002-1291	100 (25)

Separator; oversized; 2 mm thick

	orange	2002-1294	100 (25)
	gray	2002-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

	90 mm	209-190	50 (25)
	120 mm	209-191	50 (25)

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2001-1301 ❹	100
blue	2001-1304 ❸ ❹	100
orange	2001-1302 ❹	100
red	2001-1303 ❹	100
black	2001-1305 ❹	100
yellow	2001-1306 ❹	100
dark gray-yellow	2001-1301/000-053 ❹	100

3-conductor ground terminal block

green-yellow	2001-1307 ❹	100

3-conductor shield terminal block

white	2001-1308	100

Other terminal blocks with the same profile:

Diode	2001-1311/1000-411	Page 146
LED	2001-1321/1000-434	Page 146

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

	orange	2002-1392	100 (25)
	gray	2002-1391	100 (25)

Separator; oversized; 2 mm thick

	orange	2002-1394	100 (25)
	gray	2002-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

	120 mm	209-191	50 (25)

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2001-1401 ❹	100
blue	2001-1404 ❸ ❹	100
orange	2001-1402 ❹	100
red	2001-1403 ❹	100
black	2001-1405 ❹	100
yellow	2001-1406 ❹	100
dark gray-yellow	2001-1401/000-053 ❹	100

4-conductor ground terminal block

green-yellow	2001-1407 ❹	100

4-conductor shield terminal block

white	2001-1408	100

Other terminal blocks with the same profile:

Diode	2001-1411/1000-411	Page 146
LED	2001-1421/1000-434	Page 146

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

	orange	2002-1492	100 (25)
	gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

	orange	2002-1494	100 (25)
	gray	2002-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

	120 mm	209-191	50 (25)

Accessories; 2001 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

	light gray	2001-171	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	2001-115	100 (25)

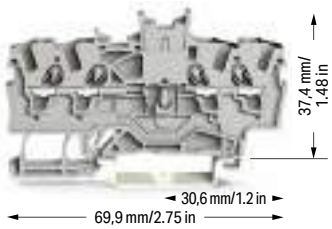
Push-in type jumper bar; insulated; I_N 17.5 A; light gray

2-way	2001-402	25
3-way	2001-403	25
4-way	2001-404	25
5-way	2001-405	25
6-way	2001-406	25
7-way	2001-407	25
8-way	2001-408	25
9-way	2001-409	25
10-way	2001-410	25

Push-in type jumper bar; insulated; I_N 17.5 A; light gray

1 to 3	2001-433	25
1 to 4	2001-434	25
1 to 5	2001-435	25
1 to 6	2001-436	25
1 to 7	2001-437	25
1 to 8	2001-438	25
1 to 9	2001-439	25
1 to 10	2001-440	25

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 17.5 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Double-potential terminal block; with push-button; with double, center marking slot
Notice: This double potential terminal block cannot be commoned with push-in type jumper bars!

Color	Item No.	Pack. Unit
gray	2001-1441 ❹	100

❶ Conductor range: 0.25 … 2.5 mm² "s+f-st";
Push-in termination: 0.75 … 2.5 mm² "s" and
0.75 … 1.5 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

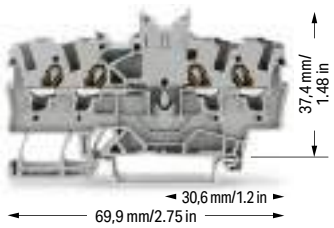
❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 17 A
16 A jumper
Double-potential terminal block 550 V; 15 A
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Step-down jumpers, see page 65
Jumpers, from page 185
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Notice: These double-potential terminal blocks cannot be commoned with push-in type jumper bars!
Front-entry double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 4.2 mm. This achieves a width of just 2.1 mm versus standard through terminal blocks. Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

Accessories; item-specific

End and intermediate plate; 0.9 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2001-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2001-405/011-000	25

Accessories; 2001 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A

light gray	2006-499	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot

gray	2001-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2001-549	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable

white	2009-114	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

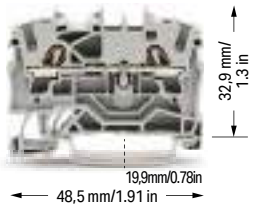
plain	793-4501	5

Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block, Double-Potential Terminal Block TOPJOB® S

2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-1201 ❹	100
blue	2002-1204 ❸ ❹	100
orange	2002-1202 ❹	100
red	2002-1203 ❹	100
black	2002-1205 ❹	100
yellow	2002-1206 ❹	100

2-conductor ground terminal block

green-yellow	2002-1207 ❹	100

2-conductor shield terminal block

white	2002-1208	100

Other terminal blocks with the same profile:

Diode	2002-1211/1000-411	Page 156

Accessories; item-specific

End and intermediate plate; 0.8 mm thick



orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

Separator; oversized; 2 mm thick



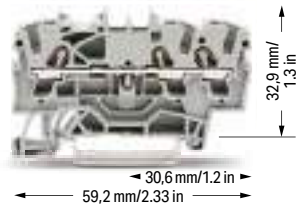
orange	2002-1294	100 (25)
gray	2002-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-1301 ❹	100
blue	2002-1304 ❸ ❹	100
orange	2002-1302 ❹	100
red	2002-1303 ❹	100
black	2002-1305 ❹	100
yellow	2002-1306 ❹	100

3-conductor ground terminal block

green-yellow	2002-1307 ❹	100

3-conductor shield terminal block

white	2002-1308	100

Other terminal blocks with the same profile:

Diode	2002-1311/1000-411	Page 156
LED	2002-1321/1000-434	Page 156

Accessories; item-specific

End and intermediate plate; 0.8 mm thick



orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

Separator; oversized; 2 mm thick



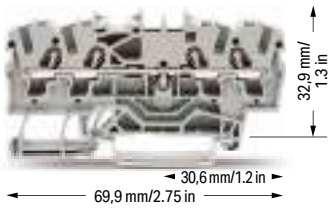
orange	2002-1394	100 (25)
gray	2002-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-1401 ❹	100
blue	2002-1404 ❸ ❹	100
orange	2002-1402 ❹	100
red	2002-1403 ❹	100
black	2002-1405 ❹	100
yellow	2002-1406 ❹	100
brown	2002-1401/000-014 ❹	100

4-conductor ground terminal block

green-yellow	2002-1407 ❹	100

4-conductor shield terminal block

white	2002-1408	100

Other terminal blocks with the same profile:

Diode	2002-1411/1000-411	Page 156
LED	2002-1421/1000-434	Page 156

Accessories; item-specific

End and intermediate plate; 0.8 mm thick



orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick



orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



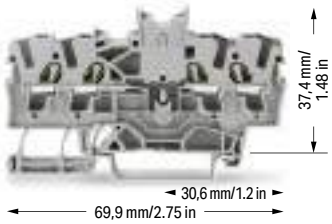
2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-potential terminal block; with double, center marking slot
Notice: This double potential terminal block cannot be commoned with push-in type jumper bars!

Color	Item No.	Pack. Unit
gray	2002-1441 ❹	100

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
Double-potential terminal block 550 V; 21 A
20 A jumper
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Step-down jumpers, see page 65
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

End and intermediate plate; 0.9 mm thick

	orange	2002-1492	100 (25)
	gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

	orange	2002-1494	100 (25)
	gray	2002-1493	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray

	1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

	1-3-5	2002-405/011-000	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A, light gray

	2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray

	1 to 3	2002-423	25
	1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray

	3-way	2002-413	25
	5-way	2002-415	25

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A

	light gray	2006-499	25

Staggered jumper; insulated; I_N 25 A; light gray

	2-way	2002-472	25
	3-way	2002-473	25
	4-way	2002-474	25
	5-way	2002-475	25
	6-way	2002-476	25
	7-way	2002-477	25
	8-way	2002-478	25
	9-way	2002-479	25
	10-way	2002-480	25
	11-way	2002-481	25
	12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

	1-3	2002-473/011-000	25
	1-3-5	2002-475/011-000	25
	1-3-5-7	2002-477/011-000	25
	1-3-5-7-9	2002-479/011-000	25
	1-3-5-7-9-11	2002-481/011-000	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

	L = 60 mm	2009-412	100 (10)
	L = 110 mm	2009-414	100 (10)
	L = 250 mm	2009-416	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	2002-115	100 (25)

Modular connector; snaps together; for jumper contact slot

	gray	2002-511	100 (25)

L-type test plug module; snaps together

	gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

	gray	2002-649	100 (25)

Test plug adapter; for 4 mm Ø test plug

	gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²

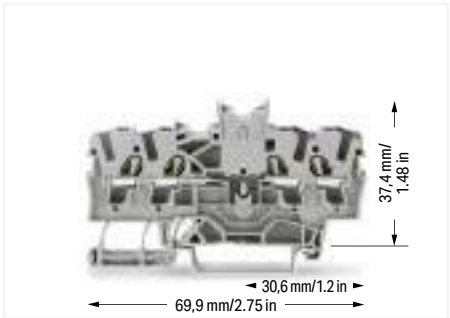
	gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

	plain	793-5501	5



Notice: These double-potential terminal blocks cannot be commoned with push-in type jumper bars! Front-entry double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 5.2 mm. This achieves a width of just 2.6 mm versus standard through terminal blocks. Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

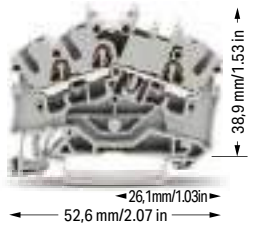
PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block, TOPJOB® S

2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-6301 ❹	100
blue	2002-6304 ❸ ❹	100
orange	2002-6302 ❹	100
red	2002-6303 ❹	100
black	2002-6305 ❹	100
yellow	2002-6306 ❹	100

3-conductor ground terminal block

green-yellow	2002-6307 ❹	100

3-conductor shield terminal block

white	2002-6308	100

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-6392	100 (25)
gray	2002-6391	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A; 1 to 3



light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

L-type test plug module; snaps together



gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks



gray	2002-649	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

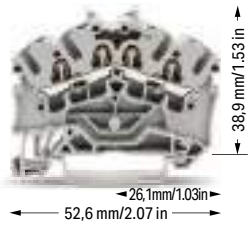
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block Notice: This terminal block cannot be commoned with push-in type jumper bars!		
Color	Item No.	Pack. Unit
gray	2002-6401 ❹	100
blue	2002-6404 ❸ ❹	100
orange	2002-6402 ❹	100
red	2002-6403 ❹	100
black	2002-6405 ❹	100
yellow	2002-6406 ❹	100

4-conductor ground terminal block		
green-yellow	2002-6407 ❹	100

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick			
	orange	2002-6392	100 (25)
	gray	2002-6391	100 (25)

Ex e/Ex i separator; orange; 3 mm thick			
	120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2002-115	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable			
	white	2009-115	1

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5



3- and 4-conductor terminal blocks (angled type):
WAGO’s Rail-Mount Terminal Blocks TOPJOB® S have a 35-degree conductor entry angle permitting a very small bend radius and an extremely short wiring distance to the cable duct. These are space- and cost-saving solutions for switchgear and control cabinet applications that use the LSC wiring system from Lütze. The design allows cable duct to be placed very close to the terminal blocks, keeping its height relatively low.

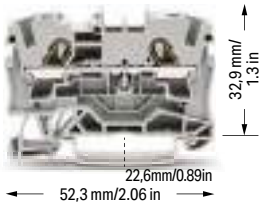
Product features:
- Push-in CAGE CLAMP® connection for all conductor types, with the additional benefit of solid, stranded and fine-stranded conductors with ferrules being simply pushed in
- Vibration-proof, fast, maintenance-free
- 3-conductor through and ground conductor terminal blocks equipped with a dual jumper slot
- 4-conductor terminal blocks permit potential multiplication – no additional jumpers or terminal blocks needed
- 3- and 4-conductor terminal blocks have the same dimensions.
- An end plate must be applied when changing from a 3-conductor terminal block to a 4-conductor terminal block and vice versa.

Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block TOPJOB® S

4 (6) mm²; 2004 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2004-1201 ❹	50
blue	2004-1204 ❸ ❹	50
orange	2004-1202 ❹	50
red	2004-1203 ❹	50
black	2004-1205 ❹	50
yellow	2004-1206 ❹	50

2-conductor ground terminal block

green-yellow	2004-1207 ❹	50

Other terminal blocks with the same profile:

Diode	2004-1211/1000-401	Page 158

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2004-1292	100 (25)
gray	2004-1291	100 (25)

Separator; oversized; 2 mm thick



orange	2004-1294	100 (25)
gray	2004-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; 2004 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2004-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2004-115	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2004-406/020-000	25

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2004-1301 ❹	50
blue	2004-1304 ❸ ❹	50
orange	2004-1302 ❹	50
red	2004-1303 ❹	50
black	2004-1305 ❹	50
yellow	2004-1306 ❹	50

3-conductor ground terminal block

green-yellow	2004-1307 ❹	50

Other terminal blocks with the same profile:

Diode	2004-1311/1000-401	Page 158

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2004-1392	100 (25)
gray	2004-1391	100 (25)

Separator; oversized; 2 mm thick



orange	2004-1394	100 (25)
gray	2004-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



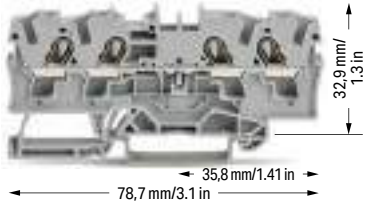
2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2004-405/011-000	25

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2004-1401 ❹	50
blue	2004-1404 ❸ ❹	50
orange	2004-1402 ❹	50
red	2004-1403 ❹	50
black	2004-1405 ❹	50
yellow	2004-1406 ❹	50

4-conductor ground terminal block

green-yellow	2004-1407 ❹	50

4-conductor shield terminal block

white	2004-1408	50

Other terminal blocks with the same profile:

Diode	2004-1411/1000-401	Page 158

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2004-1492	100 (25)
gray	2004-1491	100 (25)

Separator; oversized; 2 mm thick



orange	2004-1494	100 (25)
gray	2004-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A



light gray	2006-499	25

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 30 A
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Step-down jumpers, see page 65
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2004 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot



gray | **2004-511** | 100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray | **2004-549** | 100 (25)

Test plug adapter; for 4 mm Ø test plug



gray | **2009-174** | 100 (25)

Testing tap; for max. 2.5 mm²



gray | **2009-182** | 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white | **2009-110** | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | **793-5501** | 5



Through terminal blocks with a blue insulated housing are suitable for Ex i applications.



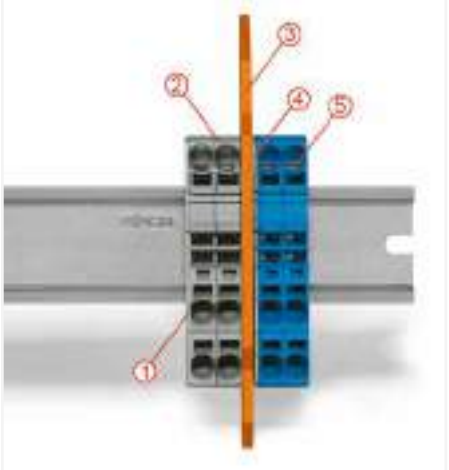
All through and ground conductor terminal blocks are suitable for Ex e II applications.



Separator for Ex e/Ex i applications:
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.



Ex e II/Ex i terminal strip
Notice:
The movable feet of terminal blocks and separator plates must face the same direction.



Separator located between Ex e II and Ex i terminal strip
① **End plate**
② **Ex e II terminal blocks**
③ **Separator for Ex e/Ex i applications**
④ **End plate**
⑤ **Ex i terminal blocks**



Example of marking (rear):
The embossed details on the terminal blocks show the manufacturer’s name, the series no., the type of protection Ex e II, the approval no., the approval data and the name of the testing authority.

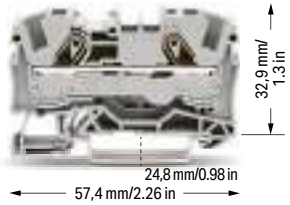
PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block TOPJOB® S

6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (57 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2006-1201 ❹	50
blue	2006-1204 ❸ ❹	50
orange	2006-1202 ❹	50
red	2006-1203 ❹	50

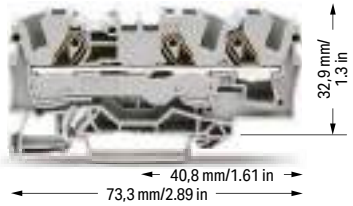
2-conductor ground terminal block

green-yellow	2006-1207 ❹	50

2-conductor shield terminal block

white	2006-1208	50

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 50 A
I_N 41 A (57 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2006-1301 ❹	25
blue	2006-1304 ❸ ❹	25
orange	2006-1302 ❹	25
red	2006-1303 ❹	25
black	2006-1305 ❹	25
yellow	2006-1306 ❹	25

3-conductor ground terminal block

green-yellow	2006-1307 ❹	25

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2006-1292	100 (25)
gray	2006-1291	100 (25)

Separator; oversized; 2 mm thick



orange	2006-1294	100 (25)
gray	2006-1293	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2006-1392	100 (25)
gray	2006-1391	100 (25)

Separator; oversized; 2 mm thick



orange	2006-1394	100 (25)
gray	2006-1393	100 (25)

Accessories; 2006 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A



light gray	2006-499	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2006-115	100 (25)

Lockout cap; for conductor entry and operating slot



gray	2006-191	25

Modular connector; snaps together; for jumper contact slot



gray	2006-511	50 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 38 A; for 2-conductor terminal blocks
550 V; 36 A; for 3-conductor terminal blocks
33 A jumper
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Step-down jumpers, see page 65
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Cover (2006-191) seals unused conductor entry.



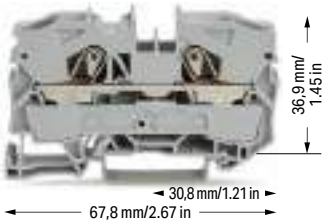
Commoning with step-down jumpers.

PUSH-IN CAGE CLAMP®

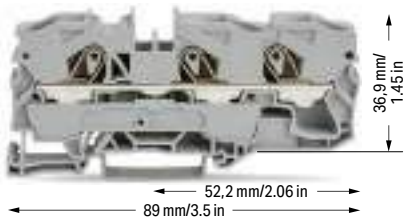
Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block TOPJOB® S

10 (16) mm²; 2010 Series

Technical Data	
0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A (76 A)	600 V, 65 A
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



Technical Data	
0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V / 8 kV / 3 ❷	600 V, 65 A
I_N 57 A (76 A)	600 V, 65 A
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.75 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2010-1201 ❹	25
blue	2010-1204 ❸ ❹	25
orange	2010-1202 ❹	25
black	2010-1205 ❹	25
yellow	2010-1206 ❹	25
light gray	2010-1209 ❹	25
dark gray-yellow	2010-1201/000-053 ❹	25

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2010-1301 ❹	25
blue	2010-1304 ❸ ❹	25
orange	2010-1302 ❹	25
red	2010-1303 ❹	25
black	2010-1305 ❹	25
yellow	2010-1306 ❹	25
light gray	2010-1309 ❹	25
dark gray-yellow	2010-1301/000-053 ❹	25

2-conductor ground terminal block

green-yellow	2010-1207 ❹	25

3-conductor ground terminal block

green-yellow	2010-1307 ❹	25

2-conductor shield terminal block

white	2010-1208	25

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2010-1292	100 (25)
gray	2010-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2010-1392	100 (25)
gray	2010-1391	100 (25)

Accessories; 2010 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 57 A; light gray



2-way	2010-402	25
3-way	2010-403	25
4-way	2010-404	25
5-way	2010-405	25

Push-in type jumper bar; insulated; I_N 57 A; light gray



1 to 3	2010-433	25
1 to 4	2010-434	25
1 to 5	2010-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2010-405/011-000	25

Step-down jumper; insulated; commons 16/10 mm² (8/10 AWG) to 10/6/4/2.5 mm² (8/10/12/14 AWG); I_N 57 A

light gray	2016-499	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2010-115	100 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow	2010-100	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2010-511	50 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² "s+f-st"; Push-in termination: 4 … 16 mm² "s" and 4 … 10 mm² "insulated ferrules; 18 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 51 A; for 2-conductor terminal blocks
550 V; 50 A; for 3-conductor terminal blocks
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Step-down jumpers, see page 65
Jumpers, from page 185
Testing accessories, from page 178
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Commoning with step-down jumpers.

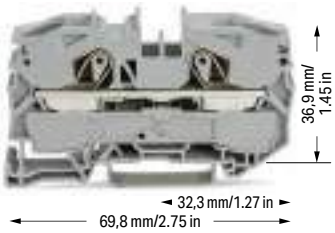
PUSH-IN CAGE CLAMP®

Through Terminal Block, Ground Conductor Terminal Block, Shield Conductor Terminal Block TOPJOB® S

16 (25 “f-st”) mm²; 2016 Series

1

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 80 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2016-1201 ❹	20
blue	2016-1204 ❸ ❹	20
orange	2016-1202 ❹	20
red	2016-1203 ❹	20
black	2016-1205 ❹	20
dark gray-yellow	2016-1201/000-053 ❹	20

2-conductor ground terminal block

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow	2016-1207 ❹	20

2-conductor shield terminal block

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

white	2016-1208	20

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V / 8 kV / 3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 80 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2016-1301 ❹	20
blue	2016-1304 ❸ ❹	20
orange	2016-1302 ❹	20
red	2016-1303 ❹	20
black	2016-1305 ❹	20
yellow	2016-1306 ❹	20
dark gray-yellow	2016-1201/000-053 ❹	20

3-conductor ground terminal block

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow	2016-1307 ❹	20

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”;
Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 70 A; for 2-conductor terminal blocks
550 V; 67 A; for 3-conductor terminal blocks
65 A jumper
(see Section 15)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 61
Step-down jumpers, see page 65
Jumpers, from page 185
Testing accessories, from page 179
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Finger guard seals an unused conductor entry.

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2016-1292	100 (25)
gray	2016-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2016-1392	100 (25)
gray	2016-1391	100 (25)

Accessories; 2016 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 76 A; light gray



2-way	2016-402	25
3-way	2016-403	25
4-way	2016-404	25
5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 76 A; light gray



1 to 3	2016-433	25
1 to 4	2016-434	25
1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2016-405/011-000	25

Step-down jumper; insulated; commons 16/10 mm² (8/10 AWG) to 10/6/4/2.5 mm² (8/10/12/14 AWG); I_N 57 A



light gray	2016-499	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2016-115	100 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow	2016-100	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2016-511	50 (25)

Test plug adapter; for 4 mm Ø test plug

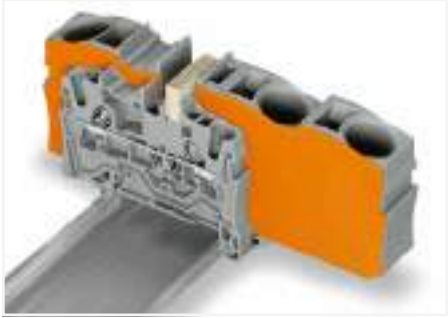


gray	2009-174	100 (25)

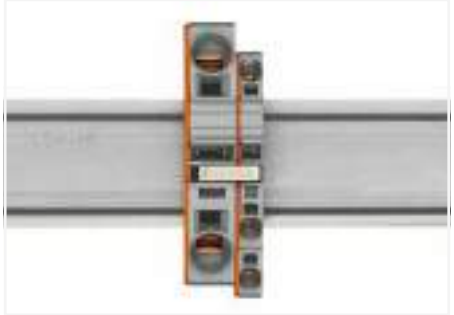
Step-Down Jumpers TOPJOB® S
Installation



Step-down jumpers (2006-499 and 2016-499)



Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.



Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.



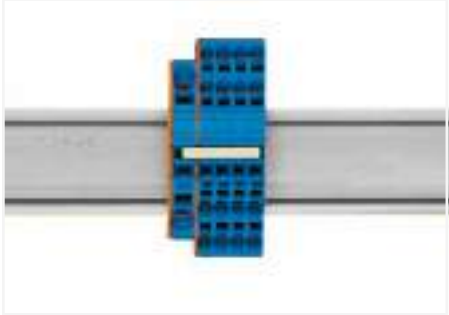
Step-down jumper (2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2006/2004 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2004/2002/2001 Series).



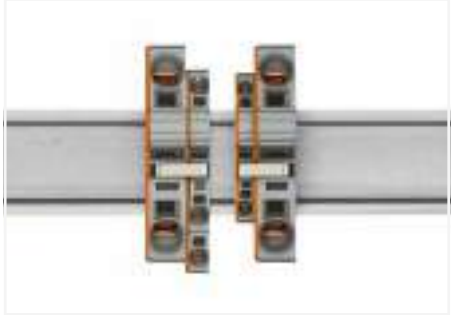
Step-down jumper (2016-499) commons 16/10 mm² (16/8 AWG) terminal blocks (2016/2010 Series) with 10/6/4/2.5 mm² (8/10/12/14 AWG) terminal blocks (2010/2006/2004/2002 Series).



Stepping down via push-in type jumper bar:
Commoning via open terminal side with end plate allows jumpering over two cross-section sizes for 16 mm² (6 AWG) and 10 mm² (8 AWG) and one cross-section size for 6/4/2.5 mm² (10/12/14 AWG). An example: from 16 mm² (6 AWG) to 6 mm² (10 AWG) (see illustration above) or from 10 mm² (8 AWG) to 4 mm² (12 AWG).



Stepping down via push-in type jumper bar:
Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm² (6 AWG) to 6 mm² (10 AWG) or from 6 mm² (10 AWG) to 2.5 mm² (14 AWG) (see illustration above).



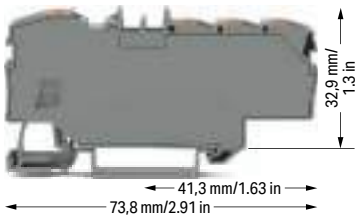
Note:
The total current of the outgoing circuits must not exceed the nominal current of the step-down jumper/push-in type jumper bar.

PUSH-IN CAGE CLAMP®

Distribution Terminal Blocks TOPJOB® S; with Push-Button
1 x 6 (10) mm² and 6 x 1.5 (2.5) mm²; 2206 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
0.25 … 1.5 (2.5) mm² ❷	22 … 14 AWG
I_N 41 A (57 A)	
800 V / 8 kV / 3 ❸	
Terminal block width: 9 mm / 0.354 inch	
13 … 15 mm / 0.51 … 0.59 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	



Distribution terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2206-8031	12
blue	2206-8034 ❹	12
red	2206-8033	12
black	2206-8035	12
dark gray-yellow	2206-8031/000-053	12

Accessories; distribution terminal block

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 18 A; light gray			
	2-way	2001-402	25
	3-way	2001-403	25
	4-way	2001-404	25
Modular connector; snaps together; for jumper contact slot			
	gray	2001-511	100 (25)
Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)
Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm			
	white	2009-115	1
WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
	plain	793-5501	5

❶ Conductor range: 0.5 … 10 mm² "s+f-st"
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm²
"insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ Conductor range: 0.25 … 2.5 mm² "s+f-st"
Push-in termination: 0.75 … 2.5 mm² "s" and
0.75 … 1.5 mm²
"insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❸ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

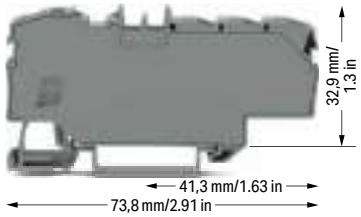


A clear marking of clamping units is molded in.

PUSH-IN CAGE CLAMP®

Distribution Terminal Blocks TOPJOB® S
1 x 6 (10) mm² and 6 x 1.5 (2.5) mm²; 2006 Series

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
0.25 … 1.5 (2.5) mm² ❷	22 … 14 AWG
I_N 41 A (57 A)	
800 V / 8 kV / 3 ❸	
Terminal block width: 9 mm / 0.354 inch	
13 … 15 mm / 0.51 … 0.59 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	



Distribution terminal block; with operating slot		
Color	Item No.	Pack. Unit
gray	2006-8031	12
blue	2006-8034 ❹	12
red	2006-8033	12
black	2006-8035	12
dark gray-yellow	2006-8031/000-053	12

Accessories; distribution terminal block

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 18 A; light gray			
	2-way	2001-402	25
	3-way	2001-403	25
	4-way	2001-404	25
Modular connector; snaps together; for jumper contact slot			
	gray	2001-511	100 (25)
Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)
Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm			
	white	2009-115	1
WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
	plain	793-5501	5

❶ Conductor range: 0.5 … 10 mm² "s+f-st"
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm²
"insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ Conductor range: 0.25 … 2.5 mm² "s+f-st"
Push-in termination: 0.75 … 2.5 mm² "s" and
0.75 … 1.5 mm²
"insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❸ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

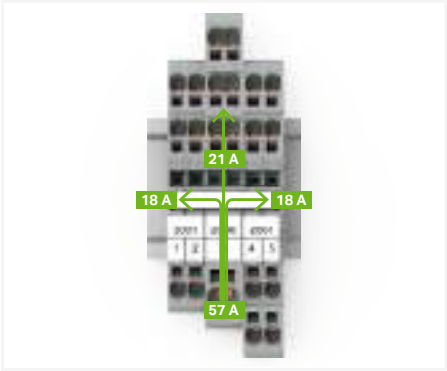
❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 185
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



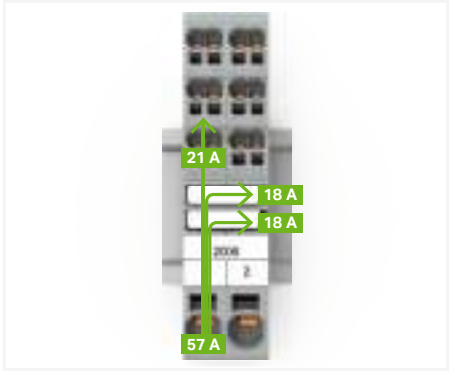
A clear marking of clamping units is molded in.



Commoning options for the 2006 Series Distribution Terminal Blocks and 2001 Series Terminal Blocks using 2001 Series Jumpers

Note:

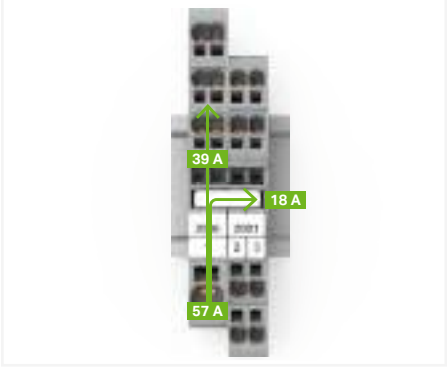
The total current of the outgoing circuits must not exceed the nominal current of the push-in type jumper bar.



Commoning options for the 2006 Series Distribution Terminal Blocks and 2001 Series Terminal Blocks using 2001 Series Jumpers

Note:

The total current of the outgoing circuits must not exceed the nominal current of the push-in type jumper bar.



Commoning options for the 2006 Series Distribution Terminal Blocks and 2001 Series Terminal Blocks using 2001 Series Jumpers

Note:

The total current of the outgoing circuits must not exceed the nominal current of the push-in type jumper bar.

Electrical Interconnection Set and Rail-Mount Terminal Block Set
821 Series

1



Electrical interconnection set; L-BOXX® 102; 221 Series & TOPJOB® S with Lever

	Item No.	Pack. Unit
	821-153	1

Contents

Qty.	Item No.	Description
		COMPACT Splicing Connectors
100	221-412	COMPACT splicing connector; 2 wires; 0.14 … 4 mm²; with levers; transparent
50	221-413	COMPACT splicing connector; 3 wires; 0.14 … 4 mm²; with levers; transparent
25	221-415	COMPACT splicing connector; 5 wires; 0.14 … 4 mm²; with levers; transparent
50	221-612	COMPACT splicing connector; 2 wires; 0.5 … 6 mm²; with levers; transparent
30	221-613	COMPACT splicing connector; 3 wires; 0.5 … 6 mm²; with levers; transparent
15	221-615	COMPACT splicing connector; 5 wires; 0.5 … 6 mm²; with levers; transparent
		TOPJOB® S Rail-Mount Terminal Blocks
60	2102-1201	2-conductor through terminal block; with lever and Push-in CAGE CLAMP®; 0.25 … 2.5 (4) mm²; gray
12	2106-1201	2-conductor through terminal block; with lever and Push-in CAGE CLAMP®; 0.5 … 6 (10) mm²; gray
		Accessories
1	210-110	Felt-tip pen; smudge-proof
5	221-500	Mounting carrier; 221 Series – 4 mm²; for DIN-35 rail/screw mounting; orange
3	221-510	Mounting carrier; 221 Series – 6 mm²; for DIN-35 rail/screw mounting; orange
10	249-116	Screwless end stop; for DIN-35 rail; 6 mm wide; gray
2	793-5501	WMB marker card; plain
2	793-5566	WMB marker card; marking 1 … 50
25	2002-400	Continuous jumper; insulated; 2-way; Nominal current: 25 A; light gray
25	2006-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 41 A; light gray
1	2009-310	Operating tool; 3.5 x 0.5 mm and 5.5 x 0.8 mm blades
15	2102-1292	End and intermediate plate; for 2-conductor terminal blocks; orange
5	2106-1292	End and intermediate plate; for 2-conductor terminal blocks; orange



Rail-mount terminal block set; L-BOXX® 102; 20xx, 21xx, 22xx Series

	Item No.	Pack. Unit
	821-154	1

Contents

Qty.	Item No.	Description
		TOPJOB® S Rail-Mount Terminal Blocks
10	2002-1301	3-conductor through terminal block; with Push-in CAGE CLAMP®; 0.25 … 2.5 (4) mm²; gray
8	2004-1201	2-conductor through terminal block; with Push-in CAGE CLAMP®; 0.5 … 4 (6) mm²; gray
20	2102-1201	2-conductor through terminal block; with lever and Push-in CAGE CLAMP®; 0.25 … 2.5 (4) mm²; gray
6	2102-5301	3-conductor through terminal block; with lever and push-button; 0.25 … 2.5 (4) mm²; gray
2	2102-5304	3-conductor through terminal block; with lever and push-button; 0.25 … 2.5 (4) mm²; blue
2	2102-5307	3-conductor ground terminal block; with lever and push-button; 0.25 … 2.5 (4) mm²; green-yellow
6	2106-5301	3-conductor through terminal block; with lever and push-button; 0.5 … 6 (10) mm²; gray
2	2106-5304	3-conductor through terminal block; with lever and push-button; 0.5 … 6 (10) mm²; blue
2	2106-5307	3-conductor ground terminal block; with lever and push-button; 0.5 … 6 (10) mm²; green-yellow
6	2116-5301	3-conductor through terminal block; with lever and push-button; 0.5 … 16 (25) mm²; gray
2	2116-5304	3-conductor through terminal block; with lever and push-button; 0.5 … 16 (25) mm²; blue
2	2116-5307	3-conductor ground terminal block; with lever and push-button; 0.5 … 16 (25) mm²; green-yellow
25	2200-1401	4-conductor through terminal block; with push-button; 0.14 … 1 (1.5) mm²; gray
10	2202-1301	3-conductor through terminal block; with push-button; 0.25 … 2.5 (4) mm²; gray
8	2204-1201	2-conductor through terminal block; with push-button; 0.5 … 4 (6) mm²; gray
6	2210-1201	2-conductor through terminal block; with push-button; 0.5 … 10 (16) mm²; gray
2	2210-1204	2-conductor through terminal block; with push-button; 0.5 … 10 (16) mm²; blue
2	2210-1207	2-conductor ground terminal block; with push-button; 0.5 … 10 (16) mm²; green-yellow

Contents 821-154 (continued)

Qty.	Item No.	Description
		Accessories
10	249-116	Screwless end stop; for DIN-35 rail; 6 mm wide; gray
25	2000-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 14 A; light gray
10	2000-1491	End and intermediate plate; for 4-conductor terminal blocks; gray
25	2002-400	Continuous jumper; insulated; 2-way; Nominal current: 25 A; light gray
25	2002-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 25 A; light gray
10	2002-1391	End and intermediate plate; for 3-conductor terminal blocks; gray
10	2004-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 32 A; light gray
10	2004-1291	End and intermediate plate; for 2-conductor terminal blocks; gray
10	2006-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 41 A; light gray
5	2010-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 57 A; light gray
5	2010-1291	End and intermediate plate; for 2-conductor terminal blocks; gray
10	2016-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 76 A; light gray
10	2102-1291	End and intermediate plate; for 2-conductor terminal blocks; gray
5	2102-1391	End and intermediate plate; for 3-conductor terminal blocks; gray
5	2106-1391	End and intermediate plate; for 3-conductor terminal blocks; gray
5	2116-1391	End and intermediate plate; for 3-conductor terminal blocks; gray



Rail-mount terminal block set; L-BOXX® 102; 2002, 2006, 2016 Series		
	Item No.	Pack. Unit
	821-155	1

Contents

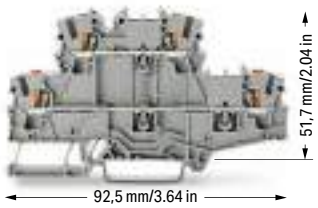
Qty.	Item No.	Description
		TOPJOB® S Rail-Mount Terminal Blocks
75	2002-1201	2-conductor through terminal block; 0.25 … 2.5 (4) mm²; gray
25	2002-1204	2-conductor through terminal block; 0.25 … 2.5 (4) mm²; blue
25	2002-1207	2-conductor ground terminal block; 0.25 … 2.5 (4) mm²; green-yellow
9	2006-1201	2-conductor through terminal block; 0.5 … 6 (10) mm²; gray
3	2006-1204	2-conductor through terminal block; 0.5 … 6 (10) mm²; blue
3	2006-1207	2-conductor ground terminal block; 0.5 … 6 (10) mm²; green-yellow
12	2016-1201	2-conductor through terminal block; 0.5 … 16 (25) mm²; gray
6	2016-1204	2-conductor through terminal block; 0.5 … 16 (25) mm²; blue
6	2016-1207	2-conductor ground terminal block; 0.5 … 16 (25) mm²; green-yellow
		Accessories
1	210-110	Felt-tip pen; smudge-proof
1	210-722	Operating tool set; with a partially insulated shaft
5	249-119	Height-adjustable group marker carrier
10	249-117	Screwless end stop; for DIN-35 rail; 10 mm wide; gray
2	793-5501	WMB marker card; plain
2	793-5566	WMB marker card; marking 1 … 50
1	793-5472	WMB marker card; Marking L1, L2, L3, N, PE
25	2002-400	Continuous jumper; insulated; 2-way; Nominal current: 25 A; light gray
25	2002-1292	End and intermediate plate; for 2-conductor terminal blocks; orange
25	2006-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 41 A; light gray
10	2006-1292	End and intermediate plate; for 2-conductor terminal blocks; orange
1	2009-110	Marking strip; white; 1 m long
5	2009-182	Testing tap; for max. 2.5 mm²
1	2009-310	Operating tool; 3.5 x 0.5 mm and 5.5 x 0.8 mm blades
25	2016-402	Push-in type jumper bar; insulated; 2-way; Nominal current: 76 A; light gray
10	2016-1292	End and intermediate plate; for 2-conductor terminal blocks; orange

PUSH-IN CAGE CLAMP®

Double-Deck Terminal Block TOPJOB® S; with Push-Button; with Vertical Conductor Entry
2.5 (4) mm²; 2202 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A	600 V, 24 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; with push-button; through/through terminal block; with vertical conductor entry; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2202-2701 ❹	50
N/L	2202-2702 ❹	50
L/N	2202-2703 ❹	50

Double-deck terminal block; with push-button; through/through terminal block; with vertical conductor entry; without marker carrier; blue

	Item No.	Pack. Unit
N/N	2202-2704 ❸ ❹	50

Double-deck terminal block; with push-button; through/through terminal block; with vertical conductor entry; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2202-2731 ❹	50



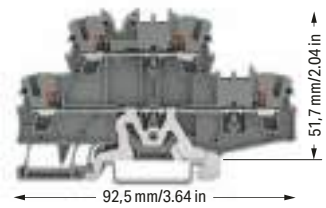
Double-deck terminal block; with push-button; 4-conductor through terminal block; with vertical conductor entry; without marker carrier; Internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2202-2708 ❹	50

Double-deck terminal block; with push-button; 4-conductor through terminal block; with vertical conductor entry; without marker carrier; Internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2202-2709 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A	600 V, 24 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; with push-button; ground conductor/through terminal block; with vertical conductor entry; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2202-2717 ❹	50
PE/L	2202-2727 ❹	50



Double-deck terminal block; with push-button; 4-conductor ground terminal block; with vertical conductor entry; without marker carrier; Internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2202-2707 ❹	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 17.5 A
17 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-2792	100 (25)
gray	2002-2791	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Double-deck marker carrier; pivoting

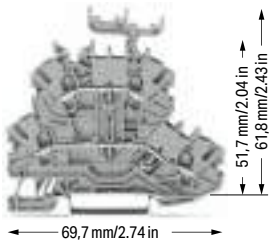


gray	2002-121	50 (25)

Double-Deck Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

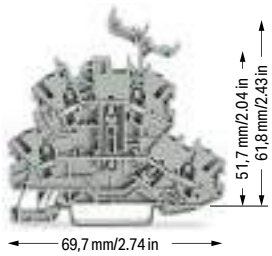


Double-deck terminal block; through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2000-2231 ❹	50
N/L	2000-2232 ❹	50
L/N	2000-2233 ❹	50

Double-deck terminal block; through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2000-2201 ❹	50
N/L	2000-2202 ❹	50
L/N	2000-2203 ❹	50



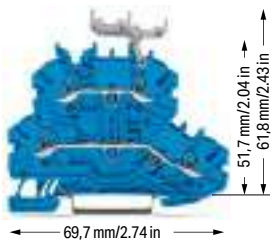
Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2000-2238 ❹	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2000-2208 ❹	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

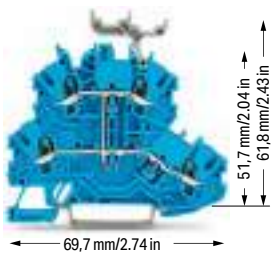


Double-deck terminal block; through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2000-2234 ❸ ❹	50

Double-deck terminal block; through/through terminal block; without marker carrier; blue

	Item No.	Pack. Unit
N/N	2000-2204 ❸ ❹	50



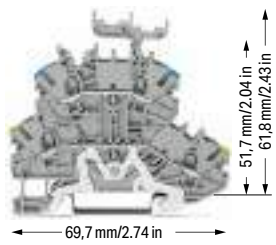
Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2000-2239 ❸ ❹	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2000-2209 ❸ ❹	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

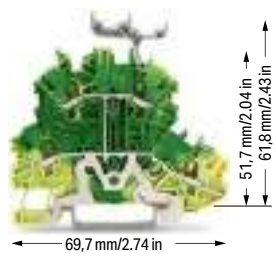


Double-deck terminal block; ground conductor/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
PE/N	2000-2247 ❹	50
PE/L	2000-2257 ❹	50

Double-deck terminal block; ground conductor/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2000-2217 ❹	50
PE/L	2000-2227 ❹	50



Double-deck terminal block; 4-conductor ground terminal block; with marker carrier; internally commoned; green-yellow

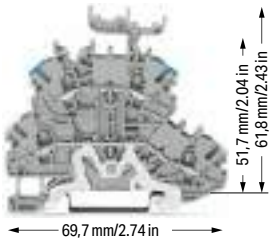
	Item No.	Pack. Unit
PE	2000-2237 ❹	50

Double-deck terminal block; 4-conductor ground terminal block; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2000-2207 ❹	50

Technical Data

0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Double-deck terminal block; shield/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2000-2248	50
Shield/L	2000-2258	50

Double-deck terminal block; shield/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2000-2218	50
Shield/L	2000-2228	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
350 V; 13 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.7 mm thick



orange	2000-2292	25
gray	2000-2291	25

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck vertical jumper; insulated; I_N 13.5 A

light gray	2000-492	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)

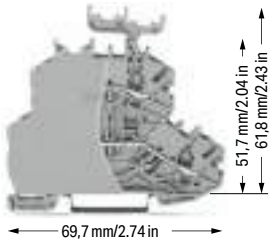


Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

Double-Deck Terminal Block TOPJOB® S; with End Plate; 800 V
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

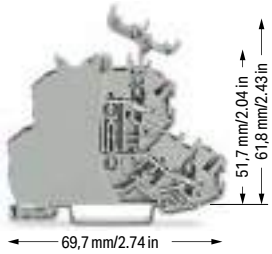


Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2000-2231/099-000 ❹	50
N/L	2000-2232/099-000 ❹	50
L/N	2000-2233/099-000 ❹	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2000-2201/099-000 ❹	50
N/L	2000-2202/099-000 ❹	50
L/N	2000-2203/099-000 ❹	50



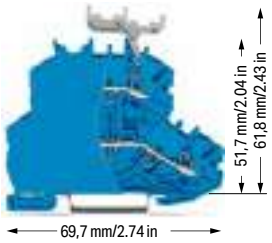
Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2000-2238/099-000 ❹	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2000-2208/099-000 ❹	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

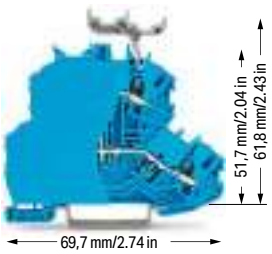


Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2000-2234/099-000 ❸❹	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; blue

	Item No.	Pack. Unit
N/N	2000-2204/099-000 ❸❹	50



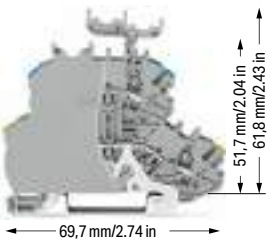
Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2000-2239/099-000 ❸❹	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2000-2209/099-000 ❸❹	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

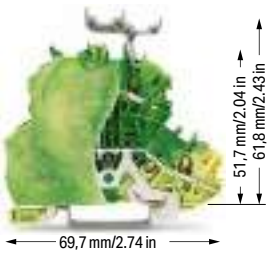


Double-deck terminal block; ground conductor/through terminal block; with end plate; with marker carrier; gray

	Item No.	Pack. Unit
PE/N	2000-2247/099-000 ❹	50
PE/L	2000-2257/099-000 ❹	50

Double-deck terminal block; ground conductor/through terminal block; with end plate; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2000-2217/099-000 ❹	50
PE/L	2000-2227/099-000 ❹	50



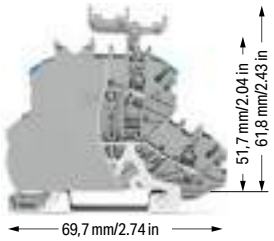
Double-deck terminal block; 4-conductor ground terminal block; with end plate; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2000-2237/099-000 ❹	50

Double-deck terminal block; 4-conductor ground terminal block; with end plate; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2000-2207/099-000 ❹	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 13 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Double-deck terminal block; shield/through terminal block; with end plate; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2000-2248/099-000	50
Shield/L	2000-2258/099-000	50

Double-deck terminal block; shield/through terminal block; with end plate; without marker carrier; gray

Shield/N	2000-2218/099-000	50
Shield/L	2000-2228/099-000	50

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.7 mm thick



orange	2000-2292	25
gray	2000-2291	25

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Push-in type jumper bar; insulated; I_N 17.5 A; light gray



2-way	2001-402	25
3-way	2001-403	25
4-way	2001-404	25
5-way	2001-405	25
6-way	2001-406	25
7-way	2001-407	25
8-way	2001-408	25
9-way	2001-409	25
10-way	2001-410	25

Push-in type jumper bar; insulated; I_N 17.5 A; light gray



1 to 3	2001-433	25
1 to 4	2001-434	25
1 to 5	2001-435	25
1 to 6	2001-436	25
1 to 7	2001-437	25
1 to 8	2001-438	25
1 to 9	2001-439	25
1 to 10	2001-440	25

Double-deck vertical jumper; insulated; I_N 13.5 A

light gray	2000-492	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2001-115	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable



white	2009-114	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

plain	793-4501	5

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)

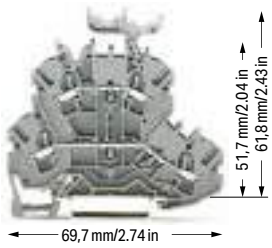


Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2002-2231 ❹	50
N/L	2002-2232 ❹	50
L/N	2002-2233 ❹	50

Double-deck terminal block; through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2002-2201 ❹	50
N/L	2002-2202 ❹	50
L/N	2002-2203 ❹	50

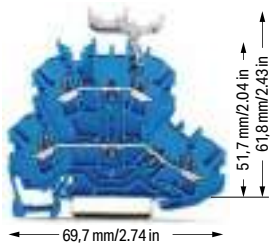
Double-deck terminal block; through/through terminal block; without marker carrier; orange

	Item No.	Pack. Unit
N/L	2002-2206 ❹	50

Other terminal blocks with the same profile:

Diode	2002-2211/1000-410	Page 172
LED	2002-2221/1000-434	Page 172

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



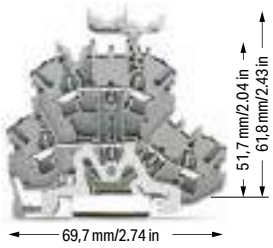
Double-deck terminal block; through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2002-2234 ❸ ❹	50

Double-deck terminal block; through/through terminal block; without marker carrier; blue

	Item No.	Pack. Unit
N/N	2002-2204 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

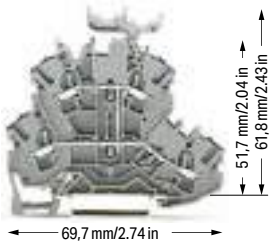


Double-deck terminal block; ground conductor/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
PE/N	2002-2247 ❹	50
PE/L	2002-2257 ❹	50

Double-deck terminal block; ground conductor/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2217 ❹	50
PE/L	2002-2227 ❹	50

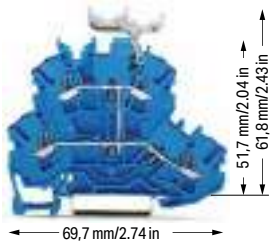


Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2238 ❹	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2208 ❹	50

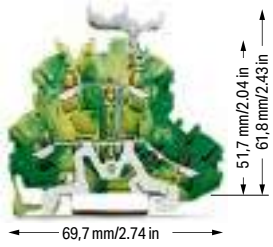


Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2239 ❸ ❹	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2209 ❸ ❹	50



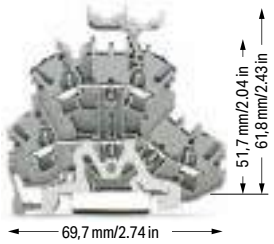
Double-deck terminal block; 4-conductor ground terminal block; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2237 ❹	50

Double-deck terminal block; 4-conductor ground terminal block; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2207 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; shield/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2002-2248	50
Shield/L	2002-2258	50

Double-deck terminal block; shield/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2002-2218	50
Shield/L	2002-2228	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 20 A
18 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-2292	100 (25)
gray	2002-2291	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Separator plate; oversized upper deck; snap-on type; 2 mm thick

orange	2002-2296	100 (25)
gray	2002-2295	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)



Double-deck terminal block assembly

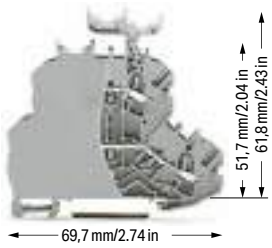


Both ground and shield conductor terminal blocks have a contact foot in the bottom level, automatically establishing direct contact to the DIN-rail or busbar.
The flexible double-deck marker carrier, which is placed above the wiring level, can be pushed aside during wiring. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.
With a terminal block width of just 5.2 mm, an effective width of just 2.6 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.25 mm² … 4 mm² (22 … 12 AWG).
Shielded control cables are becoming an increasingly common solution to external signal interference.
Front-entry shield conductor terminal blocks are ideal for connecting braided cables. Like front-entry ground conductor terminal blocks, they are equipped with a grounding foot for direct electrical connection to the rail, however they differ significantly by their white insulated housing.
Shield conductor terminal blocks for front-entry wiring can be directly mounted beside signal-conductor terminal blocks, providing excellent deflection of interfering signals.

Double-Deck Terminal Block TOPJOB® S; with End Plate; 800 V
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; gray

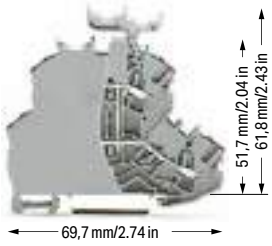
	Item No.	Pack. Unit
L/L	2002-2231/099-000 ❹	50
N/L	2002-2232/099-000 ❹	50
L/N	2002-2233/099-000 ❹	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2002-2201/099-000 ❹	50
N/L	2002-2202/099-000 ❹	50
L/N	2002-2203/099-000 ❹	50

Other terminal blocks with the same profile:

Diode	2002-2211/1000-410	Page 172
LED	2002-2221/1000-434	Page 172



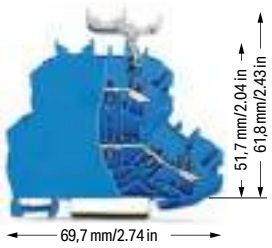
Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2238/099-000 ❹	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2208/099-000 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	

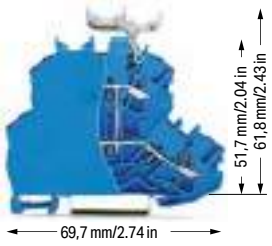


Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2002-2234/099-000 ❸ ❹	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; blue

	Item No.	Pack. Unit
N/N	2002-2204/099-000 ❸ ❹	50



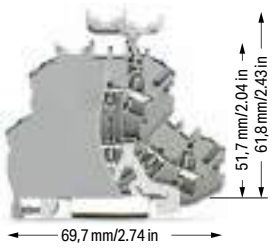
Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2239/099-000 ❸ ❹	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2209/099-000 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	

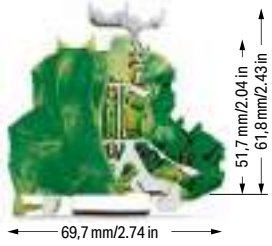


Double-deck terminal block; ground conductor/through terminal block; with end plate; with marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2247/099-000 ❹	50
PE/L	2002-2257/099-000 ❹	50

Double-deck terminal block; ground conductor/through terminal block; with end plate; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2217/099-000	50
PE/L	2002-2227/099-000	50



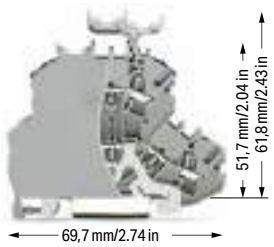
Double-deck terminal block; 4-conductor ground terminal block; with end plate; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2237/099-000 ❹	50

Double-deck terminal block; 4-conductor ground terminal block; with end plate; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2207/099-000 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; shield/through terminal block; with end plate; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2002-2248/099-000	50
Shield/L	2002-2258/099-000	50

Double-deck terminal block; shield/through terminal block; with end plate; without marker carrier; gray

Shield/N	2002-2218/099-000	50
Shield/L	2002-2228/099-000	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 20 A
18 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Testing accessories, page 181
Marking, from page 684

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of double-deck terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-2292	100 (25)
gray	2002-2291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Double-deck marker carrier; pivoting



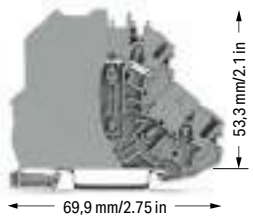
gray	2002-121	50 (25)

PUSH-IN CAGE CLAMP®

Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

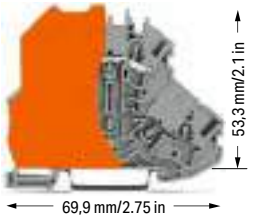
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷	
I_N 24 A	1000 V, 20 A
Terminal block width: 7.2 mm / 0.283 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; contact insert only on upper deck; gray separator plate; oversized; gray

	Item No.	Pack. Unit
◯ L	2002-2201/097-000	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷	
I_N 24 A	1000 V, 20 A
Terminal block width: 7.2 mm / 0.283 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; contact insert only on upper deck; orange separator plate; oversized; gray

	Item No.	Pack. Unit
◯ L	2002-2201/098-000	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 1000 VAC/DC = rated voltage
1500 VDC
12 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Testing accessories, page 181
Marking, from page 684

A protective warning marker and an insulation stop must be applied individually.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray | 2002-171 | 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray | 2002-172 | 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow | 2002-115 | 100 (25)

Test plug adapter; for 4 mm Ø test plug



gray | 2009-174 | 100 (25)

Testing tap; for max. 2.5 mm²



gray | 2009-182 | 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Double-deck marker carrier; pivoting

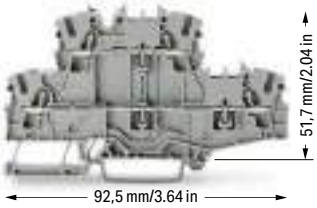


gray | 2002-121 | 50 (25)

PUSH-IN CAGE CLAMP®

Double-Deck Terminal Block TOPJOB® S; with Vertical Conductor Entry
2.5 (4) mm²; 2002 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 24 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; with vertical conductor entry; without marker carrier; gray

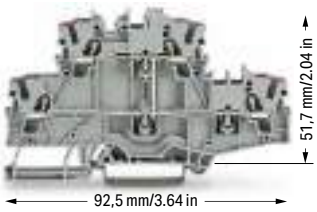
	Item No.	Pack. Unit
L/L	2002-2701 ❹	50
N/L	2002-2702 ❹	50
L/N	2002-2703 ❹	50

Double-deck terminal block; through/through terminal block; with vertical conductor entry; without marker carrier; blue

N/N	2002-2704 ❸ ❹	50

Double-deck terminal block; through/through terminal block; with vertical conductor entry; with marker carrier; gray

L/L	2002-2731 ❹	50



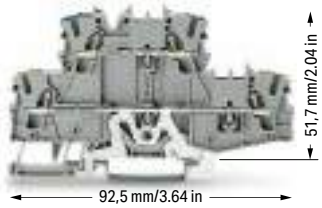
Double-deck terminal block; 4-conductor through terminal block; with vertical conductor entry; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2708 ❹	50

Double-deck terminal block; 4-conductor through terminal block; with vertical conductor entry; without marker carrier; internally commoned; violet conductor entry; blue

N	2002-2709 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 24 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; ground conductor/through terminal block; with vertical conductor entry; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2717 ❹	50
PE/L	2002-2727 ❹	50



Double-deck terminal block; 4-conductor ground terminal block; with vertical conductor entry; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2707	50
PE	2002-2707/999-950 ❹	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 21 A
17 A jumper and 16 A staggered jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-2792	100 (25)
gray	2002-2791	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Double-deck marker carrier; pivoting

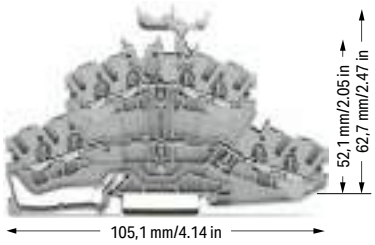


gray	2002-121	50 (25)

4-Conductor Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

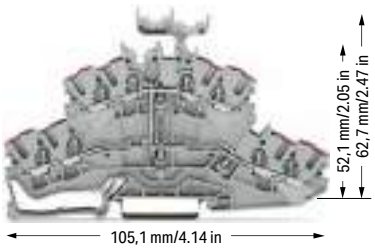


4-conductor double-deck terminal block; through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2002-2431 ❹	50
N/L	2002-2432 ❹	50
L/N	2002-2433 ❹	50

4-conductor double-deck terminal block; through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2002-2401 ❹	50
N/L	2002-2402 ❹	50
L/N	2002-2403 ❹	50



4-conductor double-deck terminal block; 8-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2438 ❹	50

4-conductor double-deck terminal block; 8-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2408 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

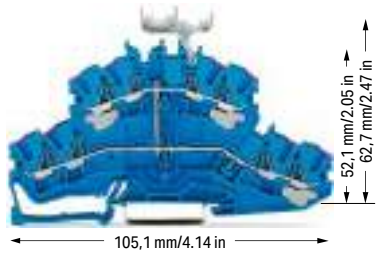


4-conductor double-deck terminal block; through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2002-2434 ❸ ❹	50

4-conductor double-deck terminal block; through/through terminal block; without marker carrier; blue

	Item No.	Pack. Unit
N/N	2002-2404 ❸ ❹	50



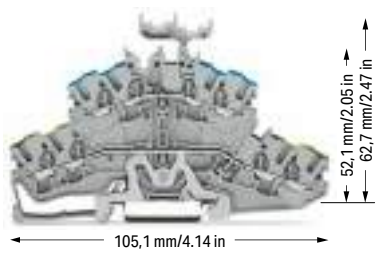
4-conductor double-deck terminal block; 8-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2439 ❸ ❹	50

4-conductor double-deck terminal block; 8-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2409 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor double-deck terminal block; ground conductor/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2447 ❹	50
PE/L	2002-2457 ❹	50

4-conductor double-deck terminal block; ground conductor/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2417 ❹	50
PE/L	2002-2427 ❹	50



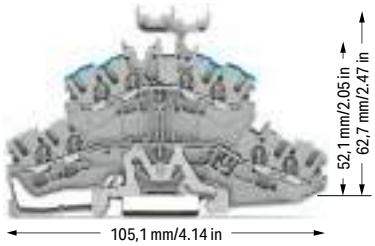
4-conductor double-deck terminal block; 8-conductor ground terminal block; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2437 ❹	50

4-conductor double-deck terminal block; 8-conductor ground terminal block; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2407 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor double-deck terminal block; shield/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N	2002-2448	50
Shield/L	2002-2458	50

4-conductor double-deck terminal block; shield/through terminal block; without marker carrier; gray

Shield/N	2002-2418	50
Shield/L	2002-2428	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 21 A
17 A jumper and 16 A staggered jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-2492	100 (25)
gray	2002-2491	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

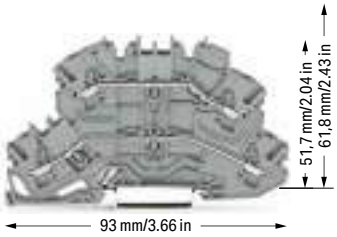


Double-deck terminal block assembly

Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

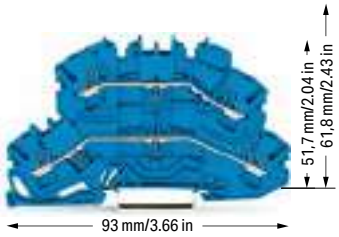


Double-deck terminal block; through/through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L/L	2002-2601 ❹	50
N/L	2002-2602 ❹	50
L/N	2002-2603 ❹	50

Other terminal blocks with the same profile:		
Carrier	2002-2661	Page 86
Disconnect	2002-2671	Page 86
Fuse	2002-2611	Page 87

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; blue

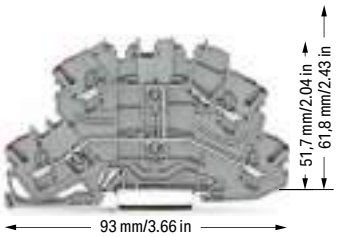
	Item No.	Pack. Unit
N/N	2002-2604 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



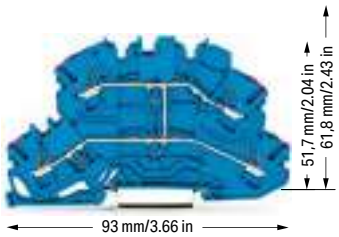
Double-deck terminal block; ground conductor/through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; gray

	Item No.	Pack. Unit
PE/N	2002-2647 ❹	50
PE/L	2002-2657 ❹	50



Double-deck terminal block; 4-conductor through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-2608 ❹	50



Double-deck terminal block; 4-conductor through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-2609 ❸ ❹	50



Double-deck terminal block; 4-conductor ground terminal block; same profile as double-deck disconnect terminal block; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-2607 ❹	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 14 A
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	**2002-2692**	100 (25)
gray	**2002-2691**	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	**209-192**	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	**2002-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	**2002-172**	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	**2002-402**	25
3-way	**2002-403**	25
4-way	**2002-404**	25
5-way	**2002-405**	25
6-way	**2002-406**	25
7-way	**2002-407**	25
8-way	**2002-408**	25
9-way	**2002-409**	25
10-way	**2002-410**	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	**2002-433**	25
1 to 4	**2002-434**	25
1 to 5	**2002-435**	25
1 to 6	**2002-436**	25
1 to 7	**2002-437**	25
1 to 8	**2002-438**	25
1 to 9	**2002-439**	25
1 to 10	**2002-440**	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	**2002-492**	100 (25)
orange	**2002-492/000-012**	100 (25)

Double-deck marker carrier; pivoting



gray	**2002-121**	50 (25)



Through terminal blocks (2002-2601) feature two independent current bars on both lower and upper deck, sharing the same profile as disconnect terminal blocks.
These terminal blocks can be commoned via double-deck vertical jumpers (2002-492).



4-conductor through terminal blocks (2002-2609) with internal commoning can be immediately identified via violet conductor entry.



Double-deck disconnect terminal blocks with a pivoting knife disconnect (2002-2671) can be used as through terminal blocks on the lower deck and as disconnect terminal blocks on the upper deck.
Besides disconnection and measurement, double-deck carrier terminal blocks (2002-2667) also provide ground conductor functionality.



Carrier terminal blocks (2002-2661) have the same design as disconnect terminal blocks.
The following components may be used:
- Disconnect plugs (a: 2002-401)
- Pluggable diode (b: 2002-800/1000-411)
- LED module (2002-800/1000-541, no illustration)
- Fuse plug (c: 2004-911)



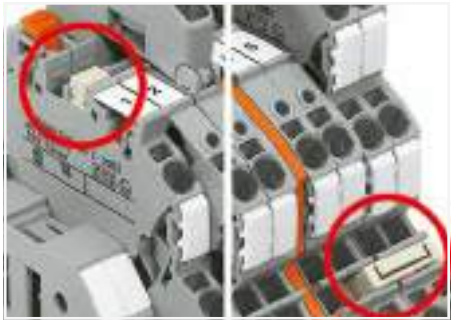
Double-deck fuse disconnect terminal blocks with a pivoting fuse holder (2002-2611, gray) are compatible with disconnect, carrier, through and ground conductor terminal blocks. The fuse holder is also available with a blown fuse LED indicator (e.g., 2002-2611/1000-541 for 12–30 V).



An end plate for fuse disconnect terminal blocks (shown in orange, 2002-1092) is used for additional protection, preventing the fuse holder from being opened. The fuse cannot be replaced until disconnecting the fuse holder from the power supply.



The same profile allows for commoning with double-deck terminal blocks (upper deck) and with triple-deck terminal blocks (lower deck).



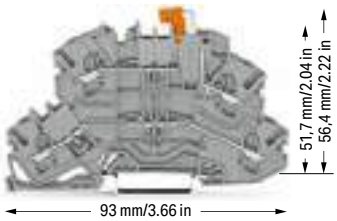
Left picture – Vertical jumper (2002-492)
Right picture – Push-in type jumper bar (2002 Series)

PUSH-IN CAGE CLAMP®

Double-Deck Disconnect Terminal Block, Double-Deck Carrier Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck disconnect terminal block; with a pivoting knife disconnect; gray

	Item No.	Pack. Unit
L/L	2002-2671 ❸	50
N/L	2002-2672 ❸	50

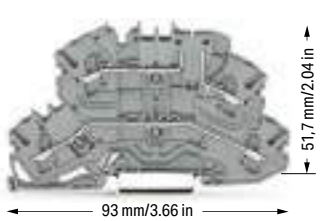
Other terminal blocks with the same profile:		
Through	2002-2601	Page 84
Fuse	2002-2611	Page 87



Double-deck disconnect terminal block; with a pivoting knife disconnect; gray

	Item No.	Pack. Unit
Shield/L	2002-2678 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck carrier terminal block; upper-deck base; gray

	Item No.	Pack. Unit
L/L	2002-2661 ❸	50
N/L	2002-2662 ❸	50



Double-deck carrier terminal block; upper-deck base; gray

	Item No.	Pack. Unit
PE/L	2002-2667 ❸	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 14 A
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-2692	100 (25)
gray	2002-2691	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

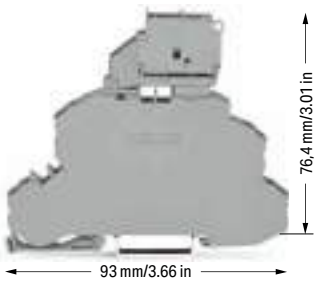
Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

Double-Deck Fuse Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

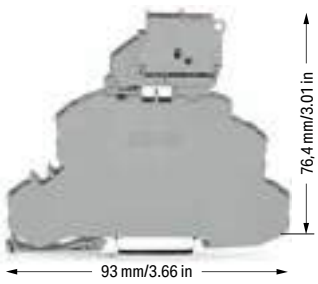
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	300 V, 6.3 A
I_N 6.3 A	300 V, 6,3 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck fuse disconnect terminal block with a pivoting fuse holder; through/fuse terminal block; for 5 x 20 mm glass cartridge fuse; without blown fuse indication; gray
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
L/L	2002-2611 ❸	25
N/L	2002-2612 ❸	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	30 V, 6.3 A
I_N 6.3 A	30 V, 6,3 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck fuse disconnect terminal block with a pivoting fuse holder; through/fuse terminal block; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2002-2611/1000-541 ❸ ❹	25
30 … 65 V	2002-2611/1000-542 ❸ ❺	25
230 V	2002-2611/1000-836 ❸	25
120 V	2002-2611/1000-867 ❸	25

Other terminal blocks with the same profile:		
Through	2002-2601	Page 84

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-2692	100 (25)
gray	2002-2691	100 (25)

End plate for fuse terminal blocks; 2 mm thick



orange	2002-1092	100 (25)
gray	2002-1091	100 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
275 V; 6.3 A
(see Section 15)

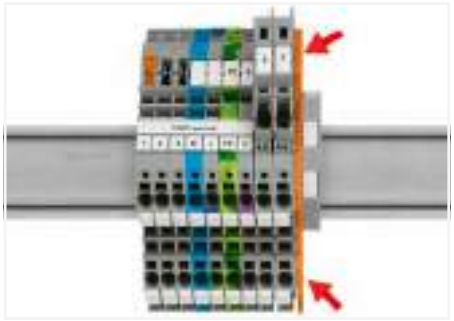
❹ 30 V / 0,8 kV / 3

❺ 65 V / 1,5 kV / 3

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of double-deck terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com



Additionally, an end plate for fuse terminal blocks (e.g., 2002-1092, orange) must be used at the end of an assembly or if there is no adjacent fuse terminal block.

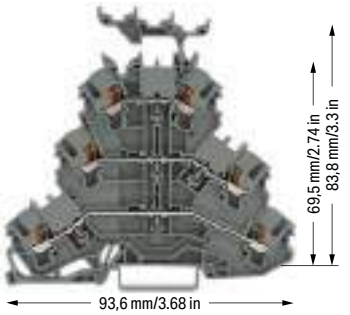


An intermediate plate is supplied with all 6.2 mm wide fused disconnect terminal blocks.
Due to the 6.2 mm width of fuse disconnect terminal blocks with a pivoting fuse holder, 2004 Series Push-In Type Jumper Bars must be used.

Triple-Deck Terminal Block TOPJOB® S; with Push-Button
2.5 (4) mm²; 2202 Series

1

Technical Data
0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
500 V / 6 kV / 3 ❷
I_N 22 A (26 A)
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch

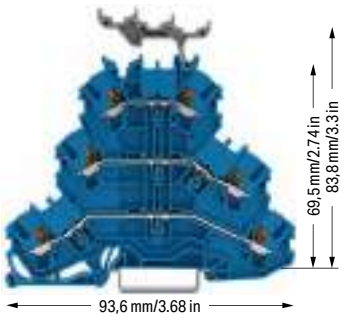


Triple-deck terminal block; with push-button; through/through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L/L	2202-3231 ❹	50
L/L/N	2202-3233 ❹	50

Triple-deck terminal block; with push-button; through/through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L/L/L	2202-3201 ❹	50
L/L/N	2202-3203 ❹	50



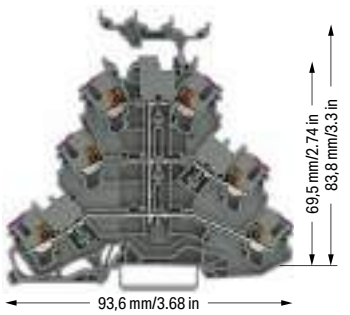
Triple-deck terminal block; with push-button; through/through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N/N	2202-3234 ❸ ❹	50

Triple-deck terminal block; with push-button; through/through/through terminal block; without marker carrier; blue

	Item No.	Pack. Unit
N/N/N	2202-3204 ❸ ❹	50

Technical Data
0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
500 V / 6 kV / 3 ❷
I_N 24 A (28 A) ❸
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch

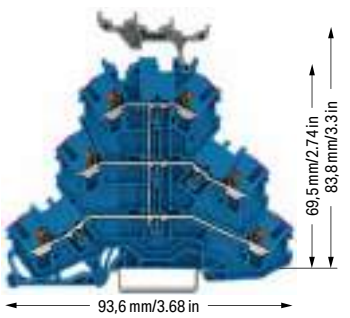


Triple-deck terminal block; with push-button; 6-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2202-3238 ❹	50

Triple-deck terminal block; with push-button; 6-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2202-3208 ❹	50



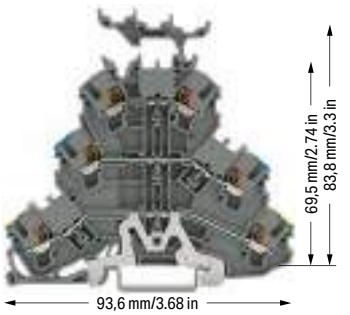
Triple-deck terminal block; with push-button; 6-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2202-3239 ❹	50

Triple-deck terminal block; with push-button; 6-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2202-3209 ❹	50

Technical Data
0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
500 V / 6 kV / 3 ❷
I_N 22 A (26 A)
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch

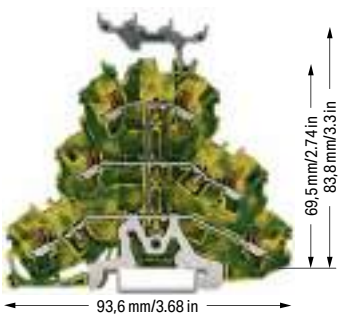


Triple-deck terminal block; with push-button; ground conductor/through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
PE/N/L	2202-3247 ❹	50
PE/L/L	2202-3257 ❹	50

Triple-deck terminal block; with push-button; ground conductor/through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
PE/N/L	2202-3217 ❹	50
PE/L/L	2202-3227 ❹	50



Triple-deck terminal block; with push-button; 6-conductor ground terminal block; with marker carrier; internally commoned; green-yellow

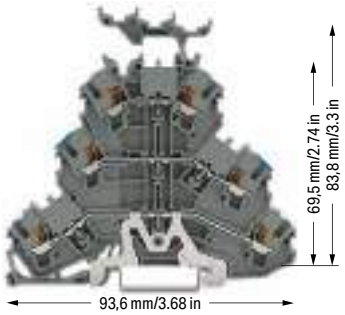
	Item No.	Pack. Unit
PE	2202-3237 ❹	50

Triple-deck terminal block; with push-button; 6-conductor ground terminal block; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2202-3207 ❹	50

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
500 V / 6 kV / 3 ❷
I_N 22 A (26 A)
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



Triple-deck terminal block; with push-button; shield/through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N/L	**2202-3248**	50
Shield/L/L	**2202-3258**	50

Triple-deck terminal block; with push-button; shield/through/through terminal block; without marker carrier; gray

Shield/N/L	**2202-3218**	50
Shield/L/L	**2202-3228**	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V, 19 A
17 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	**2202-3292**	100 (25)
gray	**2202-3291**	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	**2202-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	**2202-172**	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	**2202-402**	25
3-way	**2202-403**	25
4-way	**2202-404**	25
5-way	**2202-405**	25
6-way	**2202-406**	25
7-way	**2202-407**	25
8-way	**2202-408**	25
9-way	**2202-409**	25
10-way	**2202-410**	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	**2202-433**	25
1 to 4	**2202-434**	25
1 to 5	**2202-435**	25
1 to 6	**2202-436**	25
1 to 7	**2202-437**	25
1 to 8	**2202-438**	25
1 to 9	**2202-439**	25
1 to 10	**2202-440**	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	**2202-492**	100 (25)
orange	**2202-492/000-012**	100 (25)

Triple-deck vertical jumper; insulated; I_N 24 A

light gray	**2202-493**	100 (25)

Triple-deck marker carrier; pivoting

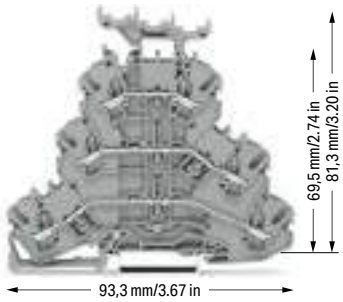


gray	**2202-131**	50 (25)

Triple-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Triple-deck terminal block; through/through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L/L	2002-3231 ❹	50
L/L/N	2002-3233 ❹	50

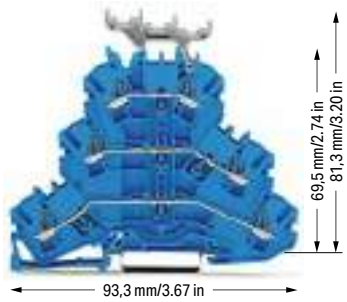
Triple-deck terminal block; through/through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L/L/L	2002-3201 ❹	50
L/L/N	2002-3203 ❹	50

Other terminal blocks with the same profile:

Diode	2002-3211/1000-410	Page 174
LED	2002-3221/1000-434	Page 174

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



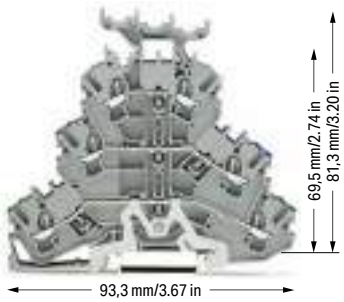
Triple-deck terminal block; through/through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N/N	2002-3234 ❸ ❹	50

Triple-deck terminal block; through/through/through terminal block; without marker carrier; blue

	Item No.	Pack. Unit
N/N/N	2002-3204 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

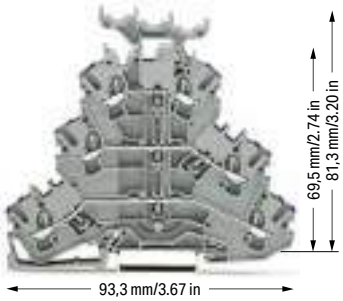


Triple-deck terminal block; ground conductor/through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
PE/N/L	2002-3247 ❹	50
PE/L/L	2002-3257 ❹	50

Triple-deck terminal block; ground conductor/through/through terminal block; without marker carrier; gray

	Item No.	Pack. Unit
PE/N/L	2002-3217 ❹	50
PE/L/L	2002-3227 ❹	50

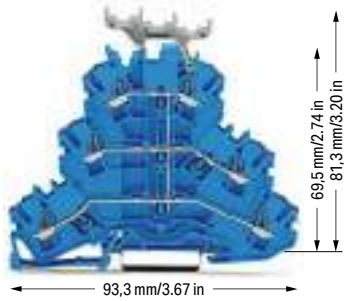


Triple-deck terminal block; 6-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-3238 ❹	50

Triple-deck terminal block; 6-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2002-3208 ❹	50



Triple-deck terminal block; 6-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-3239 ❸ ❹	50

Triple-deck terminal block; 6-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2002-3209 ❸ ❹	50



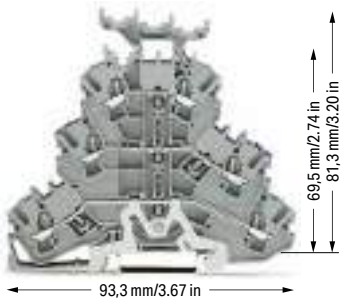
Triple-deck terminal block; 6-conductor ground terminal block; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-3237 ❹	50

Triple-deck terminal block; 6-conductor ground terminal block; without marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2002-3207 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V, 19 A
17 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Triple-deck terminal block; shield/through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
Shield/N/L	2002-3248	50
Shield/L/L	2002-3258	50

Triple-deck terminal block; shield/through/through terminal block; without marker carrier; gray

Shield/N/L	2002-3218	50
Shield/L/L	2002-3228	50

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-3292	100 (25)
gray	2002-3291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Triple-deck vertical jumper; insulated; I_N 24 A

light gray	2002-493	100 (25)

Triple-deck marker carrier; pivoting



gray	2002-131	50 (25)



Triple-deck vertical jumpers (2002-493) common the three levels of triple-deck terminal blocks.



Combination of multilevel terminal blocks

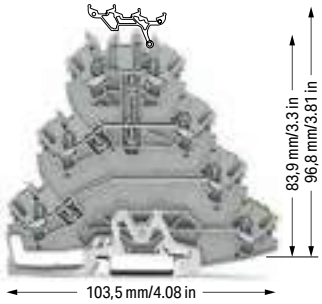


L-type test plug modules (2002-611) for testing rail-mount terminal blocks via conductor entries

Quadruple-Deck Rail-Mount Terminal Block for Wiring of Electric Motors TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 20 A (25 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



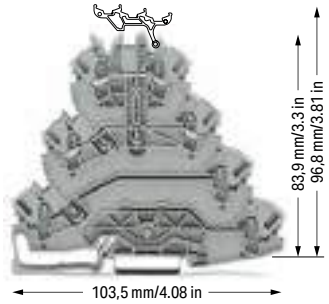
Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3 - PE	2002-4127 ❸	25

Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3 - PE	2002-4157 ❸	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 20 A (25 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



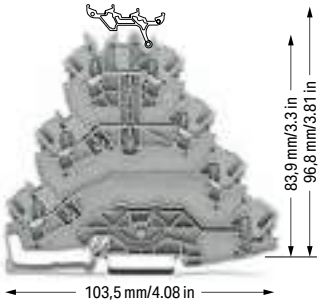
Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L1 - L2	2002-4111 ❸	25

Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L1 - L2	2002-4141 ❸	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V / 8 kV / 3 ❷	600 V, 20 A
I_N 20 A (25 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3	2002-4101 ❸	25

Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3	2002-4131 ❸	25

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-4192	100 (25)
gray	2002-4191	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Lockout cap; for conductor entry and operating slot



orange	2002-192	25
gray	2002-191	25
blue	2002-194	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A, light gray

5-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Triple-deck marker carrier; pivoting



gray	2002-131	50 (25)

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V, 19 A
17 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Creating spacer housings for electric motor wiring rail-mount terminal blocks via lockout caps (2002-192) for conductor entry and operating slot.



In addition to rail-mount terminal blocks for electric motor wiring, special versions are also available.

- Version without ground contact and only two potentials:
  These terminal blocks were custom designed to support additional functions, such as engine brakes or temperature sensors. Sharing a common profile, this terminal block version can be put next to the appropriate electric motor wiring terminal block without using intermediate plates. That makes the rail assembly easier to understand and wire. This also prevents wiring errors as no conductor entry is unused.
- Version without ground contact and with three potentials:
  Clearly designated clamping units are the primary advantage to this terminal block design. When using devices with protective insulation, for example, there are no open ground clamping units that could create confusion.



Testing with voltage tester.



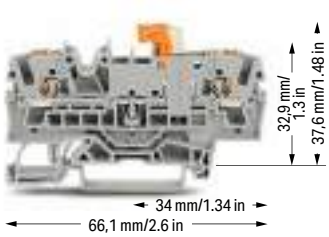
Marking clamping points via WMB Multi Marking System.
Group marking via marking strips (Item No. 709-177).

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block TOPJOB® S; with Push-Button

2.5 (4) mm²; 2202 Series

1

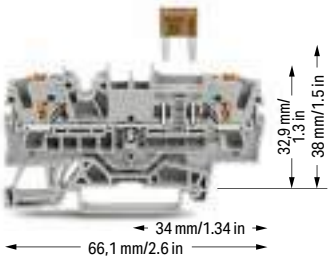
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with push-button; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2202-1671 ❺	50
blue	2202-1674 ❹ ❺	50
orange	2202-1672 ❺	50

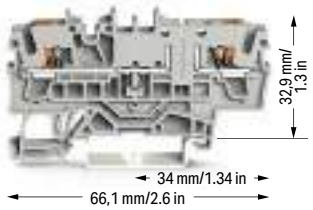
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2202-1681	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor carrier terminal block; with push-button; with test point

Color	Item No.	Pack. Unit
gray	2202-1661 ❺	50

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



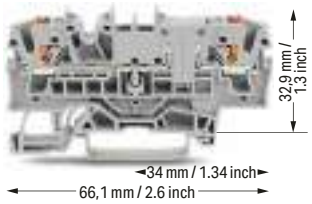
1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 Ar
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with push-button; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2202-1601 ❺	50
blue	2202-1604 ❹ ❺	50
orange	2202-1602 ❺	50

Other terminal blocks with the same profile:

Fuse	2202-1611	Page 104

Modular connector; snaps together; for jumper contact slot



gray — 2002-511 — 100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray — 2002-549 — 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white — 2009-110 — 1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white — 2009-115 — 1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

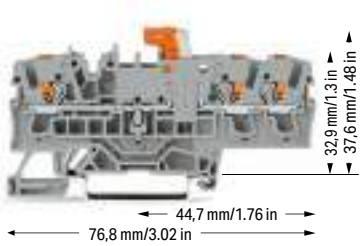
plain — 793-5501 — 5

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button

2.5 (4) mm²; 2202 Series

1

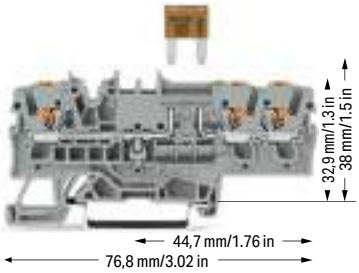
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor disconnect/test terminal block; with push-button; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2202-1771 ❺	50
blue	2202-1774 ❹ ❺	50
orange	2202-1772 ❺	50

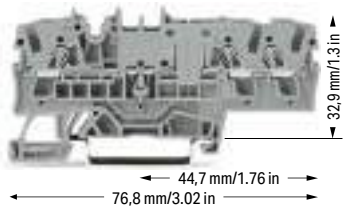
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2202-1781	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor carrier terminal block; with push-button; with test point

Color	Item No.	Pack. Unit
gray	2202-1761 ❺	50

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



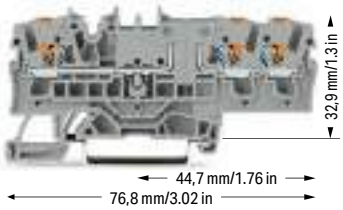
1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with push-button; with test point; same profile as 3-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2202-1701 ❺	50
blue	2202-1704 ❹ ❺	50
orange	2202-1702 ❺	50

3-conductor ground terminal block; with push-button; with test point

green-yellow	2202-1707	50

Other terminal blocks with the same profile:

Fuse	2202-1711	Page 104

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 Ar
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

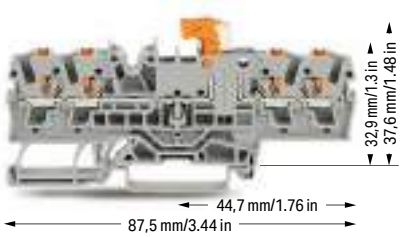
plain	793-5501	5

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block TOPJOB® S; with Push-Button

2.5 (4) mm²; 2202 Series

1

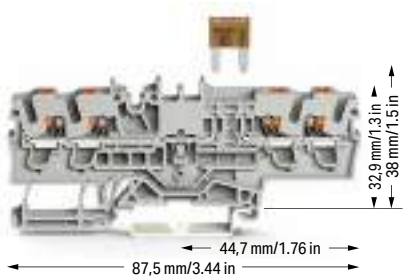
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor disconnect/test terminal block; with push-button; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2202-1871 ❺	50
blue	2202-1874 ❹ ❺	50
orange	2202-1872 ❺	50

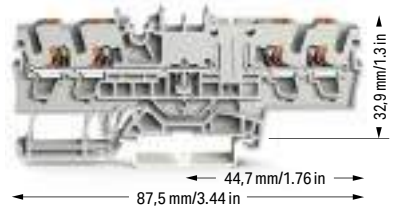
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2202-1881	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor carrier terminal block; with push-button; with test point

Color	Item No.	Pack. Unit
gray	2202-1861 ❺	50

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



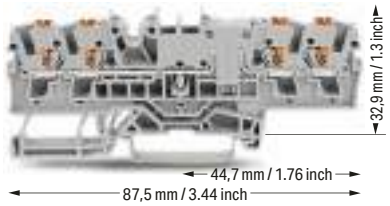
1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 Ar
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

4-conductor through terminal block; with push-button; with test point; same profile as 4-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2202-1801 ❺	50
blue	2202-1804 ❹ ❺	50
orange	2202-1802 ❺	50

Other terminal blocks with the same profile:

Fuse	2202-1811	Page 105

Modular connector; snaps together; for jumper contact slot



gray | 2002-511 | 100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray | 2002-549 | 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white | 2009-115 | 1

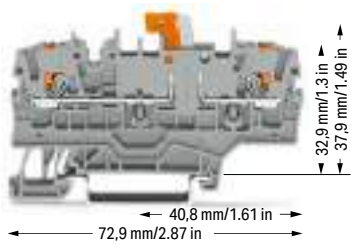
WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain | 793-5501 | 5

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Push-Button; with Additional Jumper Slot 2.5 (4) mm²; 2202 Series

1

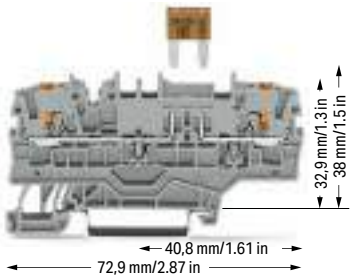
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with push-button; with test point; orange disconnect link; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2202-1971 ❺	50
blue	2202-1974 ❹ ❺	50
orange	2202-1972 ❺	50

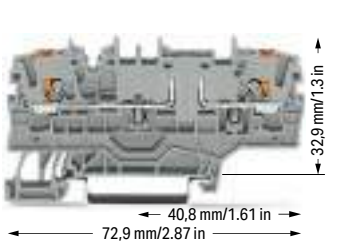
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point; without blown fuse indication; with additional jumper slot
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2202-1981	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor carrier terminal block; with push-button; with test point; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2202-1961 ❺	50

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2202-401	100 (25)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2202-1992	100 (25)
gray	2202-1991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2202-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2202-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Staggered jumper; insulated; I_N 25 A; light gray



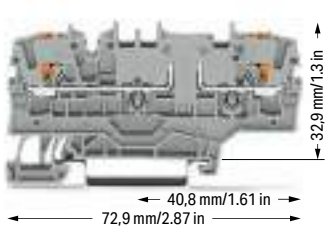
2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 Ar
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with push-button; with test point; with additional jumper slot; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2202-1901 ❺	50
blue	2202-1904 ❹ ❺	50
orange	2202-1902 ❺	50

2-conductor ground terminal block; with push-button; with test point; with additional jumper slot

green-yellow	2202-1907	50

Other terminal blocks with the same profile:

Fuse	2202-1911	Page 104

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



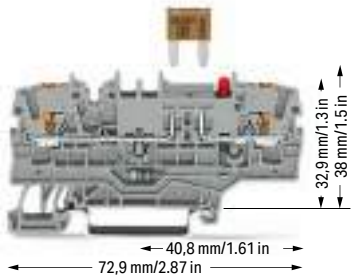
gray	2002-549	100 (25)

Fuse Terminal Block TOPJOB® S; with Push-Button; for Mini-Automotive Blade-Style Fuse; with Additional Jumper Slot

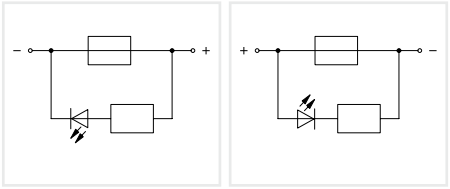
2.5 (4) mm²; 2202 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	12 V, 10 A
I_N 10 A ❸	12 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



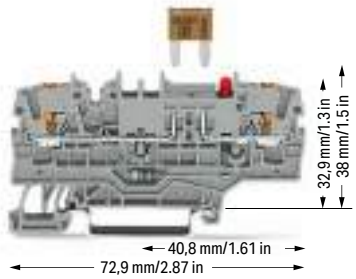
2202-1981/1000-429 2202-1981/1000-449



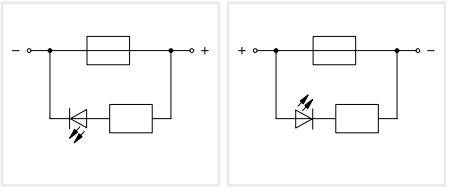
2-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point; 12 V; with blown fuse indication by LED; LED power consumption: 4.8 mA; with additional jumper slot; gray
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

	Item No.	Pack. Unit
○ anode right	2202-1981/1000-429	50
○ anode left	2202-1981/1000-449	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	24 V, 10 A
I_N 10 A ❸	24 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



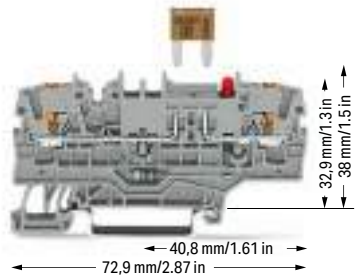
2202-1981/1000-413 2202-1981/1000-434



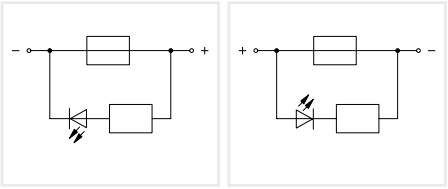
2-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point; 24 V; with blown fuse indication by LED; LED power consumption: 4.8 mA; with additional jumper slot; gray
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

	Item No.	Pack. Unit
○ anode right	2202-1981/1000-413	50
○ anode left	2202-1981/1000-434	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	48 V, 10 A
I_N 10 A ❸	48 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2202-1981/1000-414 2202-1981/1000-435



2-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point; 48 V; with blown fuse indication by LED; LED power consumption: 4.8 mA; with additional jumper slot; gray
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

	Item No.	Pack. Unit
○ anode right	2202-1981/1000-414	50
○ anode left	2202-1981/1000-435	50

Other terminal blocks with the same profile		
Through	2202-1901	Page 101

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



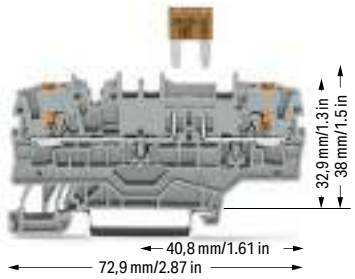
1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 2.5 mm² “s+f-st” and 0.25 … 4 mm² “s”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor fuse terminal block; with push-button; for mini-automotive blade-style fuse; with test point; without blown fuse indication; with additional jumper slot
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2202-1981	50

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

Fused Disconnect Terminal Block with a Pivoting Fuse Holder TOPJOB® S; with Push-Button; for (5 x 20) mm Glass Cartridge Fuse

2.5 (4) mm²; 2202 Series

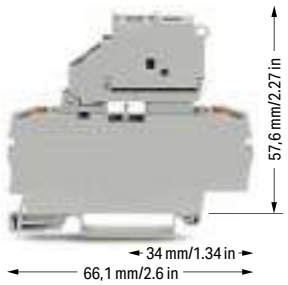
1

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6.3 A	250 V, 10 A

Terminal block width: 6.2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



2-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; for (5 x 20) mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2202-1611	50

2-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; for (5 x 20) mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2202-1611/1000-541 ❸	50
30 … 65 V	2202-1611/1000-542 ❹	50
120 V	2202-1611/1000-867	50
230 V	2202-1611/1000-836	50

Other terminal blocks with the same profile:

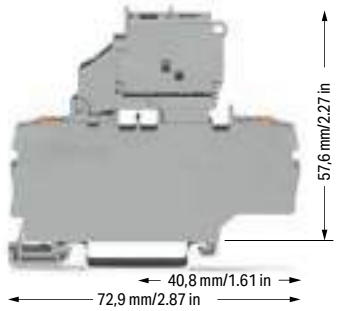
Through	2202-1601	Page 95

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6.3 A	250 V, 10 A

Terminal block width: 6.2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



2-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; with additional jumper slot; for (5 x 20) mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2202-1911	50

2-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; with additional jumper slot; for (5 x 20) mm glass cartridge fuse; with blown fuse indication; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2202-1911/1000-541 ❸	50
30 … 65 V	2202-1911/1000-542 ❹	50
120 V	2202-1911/1000-867	50
230 V	2202-1911/1000-836	50

Other terminal blocks with the same profile:

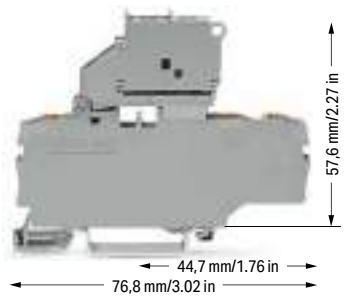
Through	2202-1901	Page 101

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6.3 A	250 V, 10 A

Terminal block width: 6.2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



3-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; for (5 x 20) mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2202-1711	50

3-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; for (5 x 20) mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2202-1711/1000-541 ❸	50
30 … 65 V	2202-1711/1000-542 ❹	50
120 V	2202-1711/1000-867	50
230 V	2202-1711/1000-836	50

Other terminal blocks with the same profile:

Through	2202-1701	Page 97

Accessories; item-specific

Push-in type wire jumper; insulated; 1.5 mm² conductor cross section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate for fuse terminal blocks; 2 mm thick



orange	2002-992	100 (25)
gray	2002-991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Interlocking link; mechanically locks multiple links; 1 m long



transparent	210-254	1

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

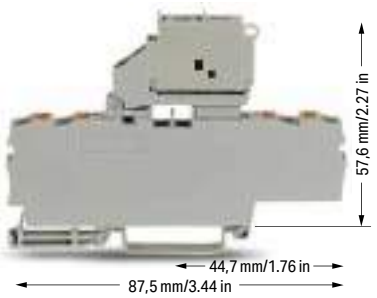
plain	793-5501	5

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6.3 A	250 V, 10 A

Terminal block width: 6.2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



4-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; for (5 x 20) mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2202-1811	50

4-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; for (5 x 20) mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2202-1811/1000-541 ❸	50
30 … 65 V	2202-1811/1000-542 ❹	50
120 V	2202-1811/1000-867	50
230 V	2202-1811/1000-836	50

Other terminal blocks with the same profile:

Through	2202-1801	Page 99

❶ Conductor range: 0.25 … 2.5 mm² “s+f-st” and 0.25 … 4 mm² “s”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 30 V / 0,8 kV / 3

❹ 65 V / 1,5 kV / 3

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of double-deck terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com

Miniature fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2202-1611 2202-1711 2202-1811	1.6 W	1.6 W	2.5 W	2.5 W
2202-1611/….-…. 2202-1711/….-…. 2202-1811/….-….	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Miniature fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2202-1911	1.6 W	1.6 W	2.5 W	2.5 W
2202-1911/….-….	1.6 W	1.6 W	2.5 W	2.5 W

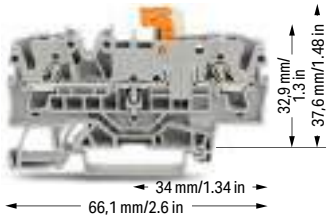
When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block TOPJOB® S

2.5 (4) mm²; 2002 Series

1

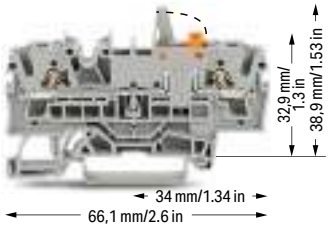
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1671 ❺	50
blue	2002-1674 ❹ ❺	50
orange	2002-1672 ❺	50

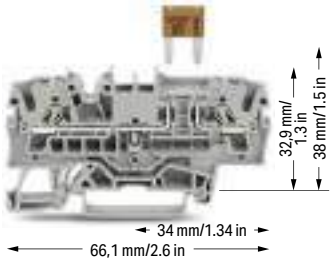
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1671/401-000 ❺	50
blue	2002-1674/401-000 ❹ ❺	50
orange	2002-1672/401-000 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	250 V, 10 A
I_N 10 A ❸	250 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1681	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



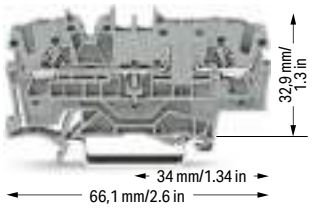
1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

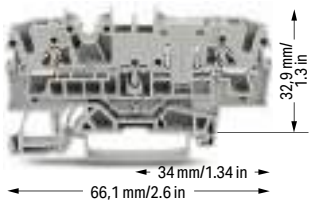
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor carrier terminal block; with test point

Color	Item No.	Pack. Unit
gray	2002-1661 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1601 ❺	50
blue	2002-1604 ❹ ❺	50
orange	2002-1602 ❺	50

Other terminal blocks with the same profile:

Fuse	2002-1611	Page 116

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange 2002-401 100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 2002-115 100 (25)

Modular connector; snaps together; for jumper contact slot



gray 2002-511 100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray 2002-549 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white 2009-115 1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 A
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Disconnect/test terminal block with pivoting knife disconnect – opening a knife disconnect.



Disconnect/test terminal block with pivoting knife disconnect – closing the knife disconnect.



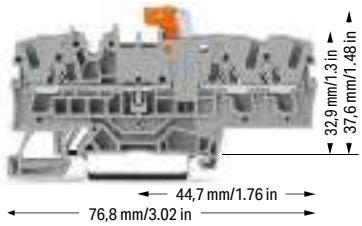
Disconnect/test terminal block with pivoting knife disconnect – testing with voltage tester.

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S

2.5 (4) mm²; 2002 Series

1

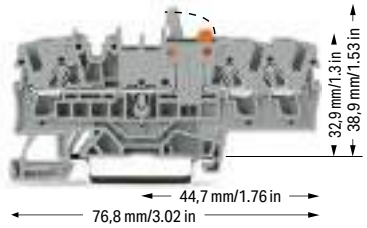
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1771 ❺	50
blue	2002-1774 ❹ ❺	50
orange	2002-1772 ❺	50

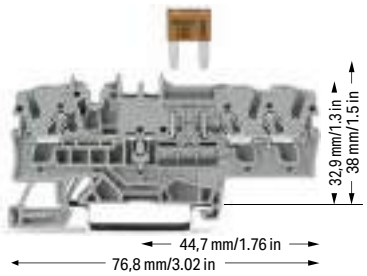
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1771/401-000 ❺	50
blue	2002-1774/401-000 ❹ ❺	50
orange	2002-1772/401-000 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	250 V, 10 A
I_N 10 A ❸	250 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1781	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



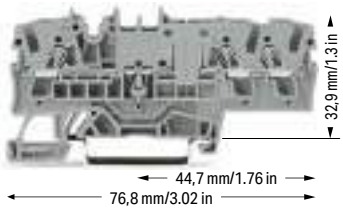
3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

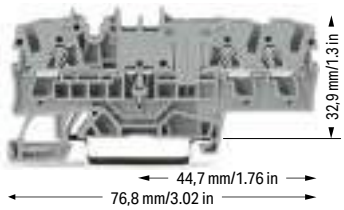
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor carrier terminal block; with test point

Color	Item No.	Pack. Unit
gray	2002-1761 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with test point; same profile as 3-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1701 ❺	50
blue	2002-1704 ❹ ❺	50
orange	2002-1702 ❺	50

3-conductor ground terminal block; mit Prüfmöglichkeit

green-yellow	2002-1707 ❺	50

Other terminal blocks with the same profile:

Fuse	2002-1711	Page 116

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 A
(see Section 15)

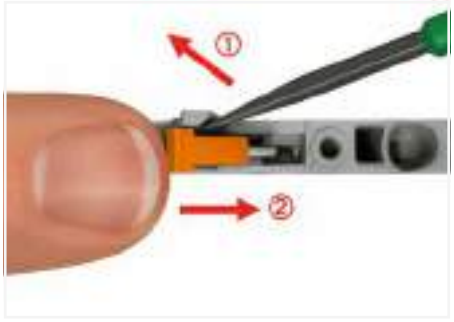
Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – knife disconnect in open position



Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – closing the knife disconnect.



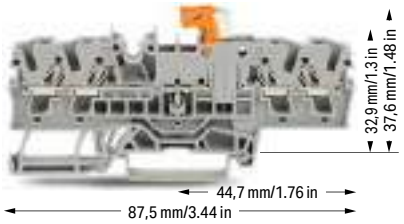
Disconnect/test terminal block with pivoting knife disconnect – testing with voltage tester.

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block TOPJOB® S

2.5 (4) mm²; 2002 Series

1

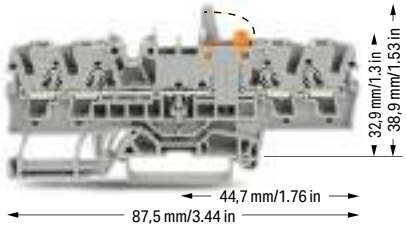
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1871 ❺	50
blue	2002-1874 ❹ ❺	50
orange	2002-1872 ❺	50

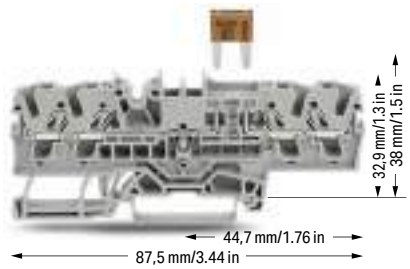
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1871/401-000 ❺	50
blue	2002-1874/401-000 ❹ ❺	50
orange	2002-1872/401-000 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	250 V, 10 A
I_N 10 A ❸	250 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1881	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A; light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



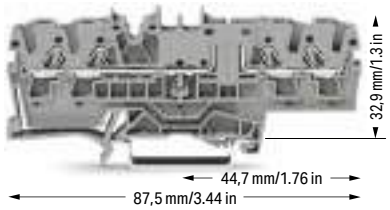
2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

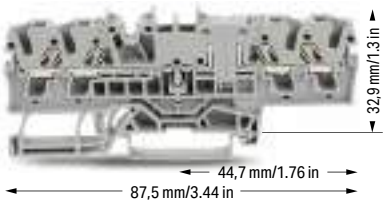
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor carrier terminal block; with test point

Color	Item No.	Pack. Unit
gray	2002-1861 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block; with test point; same profile as 4-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1801 ❺	50
blue	2002-1804 ❹ ❺	50
orange	2002-1802 ❺	50

Other terminal blocks with the same profile:

Fuse	2002-1811	Page 117

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 A
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – top view

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5



Carrier terminal block (2002-1861) with disconnect plug (2002-401) in parked position



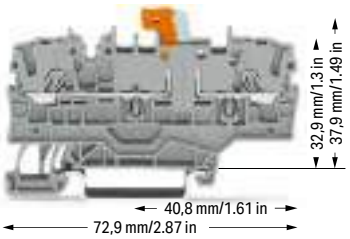
Carrier terminal block (2002-1861) with disconnect plug (2002-401) in operating position

Disconnect/Test Terminal Block, Fuse Terminal Block, Carrier Terminal Block, Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; with Additional Jumper Slot

2.5 (4) mm²; 2002 Series

1

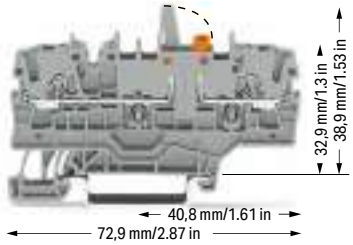
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with test point; orange disconnect link; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2002-1971 ❺	50
blue	2002-1974 ❹ ❺	50
orange	2002-1972 ❺	50

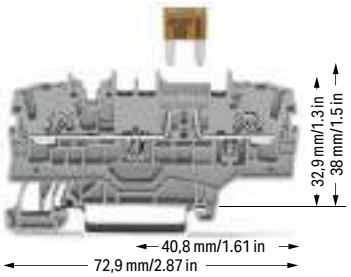
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2002-1971/401-000 ❺	50
blue	2002-1974/401-000 ❹ ❺	50
orange	2002-1972/401-000 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	250 V, 10 A
I_N 10 A ❸	250 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point; without blown fuse indication; with additional jumper slot
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1981	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray



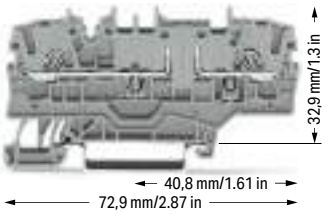
2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

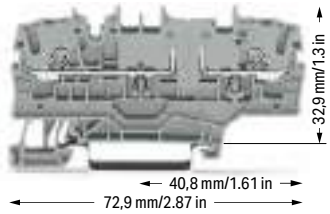
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor carrier terminal block; with test point; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2002-1961 ❺	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-Leiter-Durchgangsklemme; mit Prüfmöglichkeit; with additional jumper slot; konturengleich zu 2-Leiter-Trennklemme
2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1901 ❺	50
blue	2002-1904 ❹ ❺	50
orange	2002-1902 ❺	50

2-conductor ground terminal block; mit Prüfmöglichkeit; with additional jumper slot

green-yellow	2002-1907 ❺	50

Other terminal blocks with the same profile:

Fuse	2002-1911	Page 116

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 17 A
(see Section 15)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)



Through Terminal Blocks and Disconnect/Test Terminal Blocks
- One center and two side marker slots for WMB markers or marking strips
- Dual jumper slots in the same location as other 2002 Series terminal blocks
- Commoning options in front of or behind the knife disconnect, depending on the power supply direction

Continuous jumper; insulated; I_N 25 A; light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

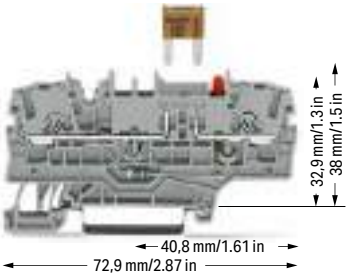
plain	793-5501	5

Fuse Terminal Block TOPJOB® S; for Mini-Automotive Blade-Style Fuse; with Additional Jumper Slot

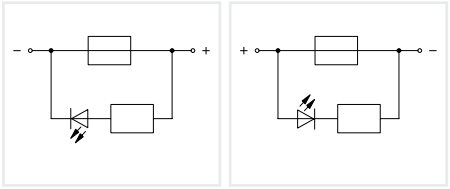
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	12 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



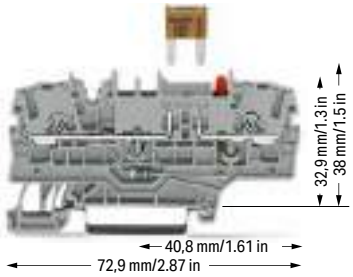
2002-1981/1000-429 2002-1981/1000-449



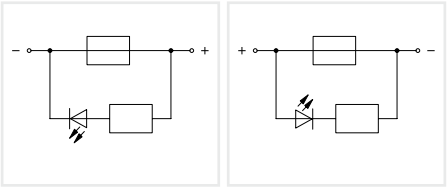
2-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point; 12 V; with blown fuse indication by LED; LED power consumption: 4.8 mA; gray Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

	Item No.	Pack. Unit
◯ anode right	2002-1981/1000-429	50
◯ anode left	2002-1981/1000-449	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	24 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



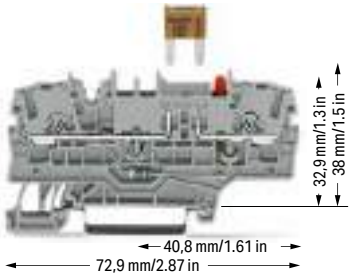
2002-1981/1000-413 2002-1981/1000-434



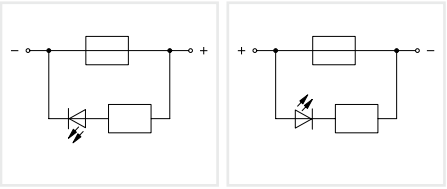
2-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point; 24 V; with blown fuse indication by LED; LED power consumption: 4.8 mA; gray Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

	Item No.	Pack. Unit
◯ anode right	2002-1981/1000-413	50
◯ anode left	2002-1981/1000-434	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	48 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1981/1000-414 2002-1981/1000-435



2-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point; 48 V; with blown fuse indication by LED; LED power consumption: 4.8 mA; gray Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

	Item No.	Pack. Unit
◯ anode right	2002-1981/1000-414	50
◯ anode left	2002-1981/1000-435	50

Other terminal blocks with the same profile:		
Through	2002-1901	Page 113

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



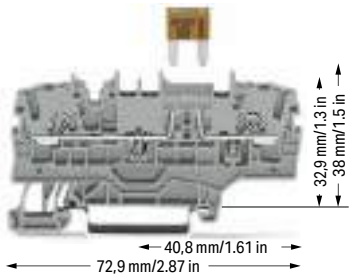
1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	250 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges can operate perfectly as protection (break-off point) if they are properly selected and used according to manufacturer specifications.
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C).
With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

2-conductor fuse terminal block; for mini-automotive blade-style fuse; with test point; without blown fuse indication; with additional jumper slot
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1981	50

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for 5 x 20 mm Glass Cartridge Fuse

2.5 (4) mm²; 2002 Series

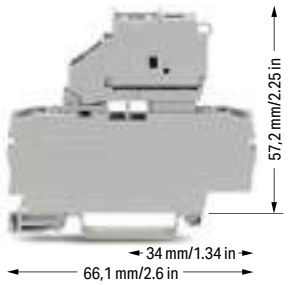
1

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6,3 A	250 V, 10 A

Klemmenbreite 6,2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



2-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1611 ❸	50

2-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1611/1000-541 ❸❹	50
30 … 65 V	2002-1611/1000-542 ❸❺	50
120 V	2002-1611/1000-867 ❸	50
230 V	2002-1611/1000-836 ❸	50

Other terminal blocks with the same profile:

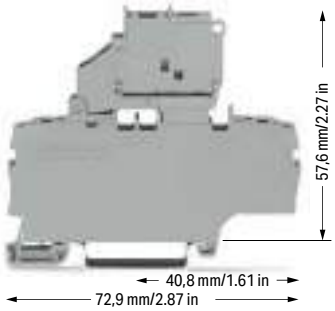
Through	2002-1601	Page 107

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6,3 A	250 V, 10 A

Klemmenbreite 6,2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1911 ❸	50

2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1911/1000-541 ❸❹	50
30 … 65 V	2002-1911/1000-542 ❸❺	50
120 V	2002-1911/1000-867 ❸	50
230 V	2002-1911/1000-836 ❸	50

Other terminal blocks with the same profile:

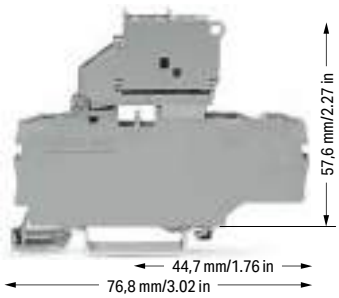
Through	2002-1901	Page 113

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6,3 A	250 V, 10 A

Klemmenbreite 6,2 mm / 0.244 inch

10 … 12 mm / 0.39 … 0.47 inch



3-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1711 ❸	50

3-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1711/1000-541 ❸❹	50
30 … 65 V	2002-1711/1000-542 ❸❺	50
120 V	2002-1711/1000-867 ❸	50
230 V	2002-1711/1000-836 ❸	50

Other terminal blocks with the same profile:

Through	2002-1701	Page 109

Accessories; item-specific

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate for fuse terminal blocks; 2 mm thick



orange	2002-992	100 (25)
gray	2002-991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Interlocking link; mechanically locks multiple links; 1 m long



transparent	210-254	1

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 6 kV / 3 ❷	250 V, 10 A
I_N 6,3 A	250 V, 10 A
Klemmenbreite 6,2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1811 ❸	50

4-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1811/1000-541 ❸ ❹	50
30 … 65 V	2002-1811/1000-542 ❸ ❺	50
120 V	2002-1811/1000-867 ❸	50
230 V	2002-1811/1000-836 ❸	50

Other terminal blocks with the same profile:

Through	2002-1801	Page 111

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
250 V; 6.3 A
(see Section 15)

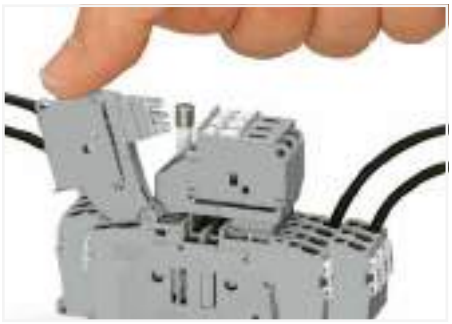
❹ 30 V / 0,8 kV / 3

❺ 65 V / 1,5 kV / 3

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of fused disconnect terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com



Fused disconnect terminal block with a pivoting fuse holder – pivoting the fuse holder into the locked open position.



Fused disconnect terminal block with a pivoting fuse holder – fuse replacement: Open the cover to replace the fuse.



Fuse terminal blocks with a width of 6.2 mm can be assembled adjacently. If there is no adjacent fuse terminal block at the end of the assembly, an end plate must be used.

Glass cartridge fuse 5 x 20

Series / Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1611				
2002-1711	1.6 W	1.6 W	2.5 W	2.5 W
2002-1811				
2002-1611/….-….				
2002-1711/….-….	1.6 W	1.6 W	2.5 W	2.5 W
2002-1811/….-….				

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Glass cartridge fuses 5 x 20

Series / Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1911	1.6 W	1.6 W	2.5 W	2.5 W
2002-1911/….-….	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

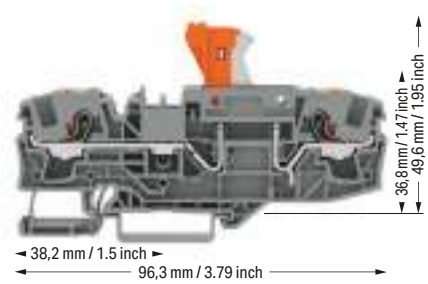
Disconnect Terminal Block, Ground Conductor Disconnect Terminal Block, Carrier Terminal Block TOPJOB® S; with Push-Button

6 (10) mm²; 2206 Series

1

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
800 V / 8 kV / 3 ❷
I_N 30 A
Terminal block width: 7.5 mm / 0.295 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor disconnect terminal block; with push-button; with pivoting knife disconnect; with test point; with orange disconnect link

Color	Item No.	Pack. Unit
gray	2206-1671	25
blue	2206-1674	25
orange	2206-1672	25
red	2206-1673	25
black	2206-1675	25

Other terminal blocks with the same profile::

Fuse	2206-1611	Page 122

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

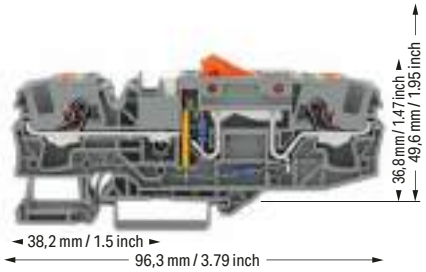
Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch



Ground conductor disconnect terminal block; with push-button; with test point; with orange disconnect link; gray

	Item No.	Pack. Unit
24 V	2206-1671/1000-848	12
48 V	2206-1671/1000-849	12
120 V	2206-1671/1000-850	12
230 V	2206-1671/1000-851	12

Other terminal blocks with the same profile::

Fuse	2206-1611	Page 122

Accessories; item-specific

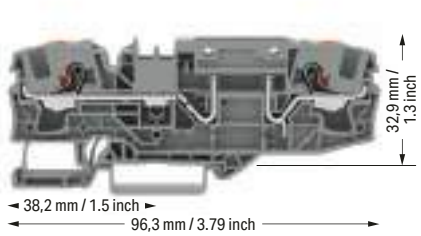
Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
800 V / 8 kV / 3 ❷
I_N 30 A
Terminal block width: 7.5 mm / 0.295 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor carrier terminal block; with push-button

Color	Item No.	Pack. Unit
gray	2206-1661	25
blue	2206-1664	25
orange	2206-1662	25
red	2206-1663	25

Other terminal blocks with the same profile::

Fuse	2206-1611	Page 122

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2006-401	100 (25)

Blind plug for carrier terminal block; indicates a disconnection



red	2006-451	100 (25)

Accessories; 2206 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Lockout cap; for conductor entry and operating slot



gray	2006-191	25

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

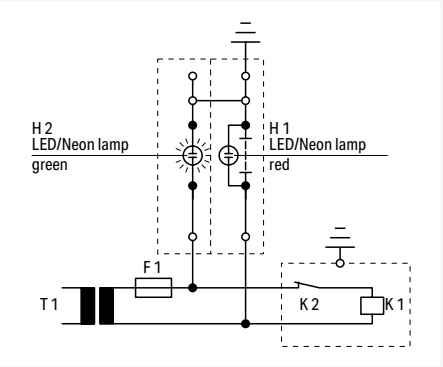
❶ Conductor range: 0.5 … 10 mm² “s+f-st”;
Push-in termination: 2.5 … 10 mm² “s” and
2.5 … 6 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

The 2 mm test slot is only approved for high impedance measurement up to max. 100 mA.

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

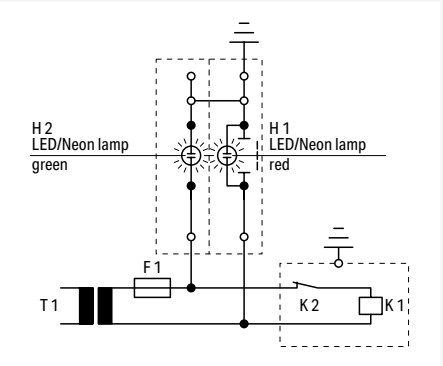


Operation
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.

IEC 60204/DIN VDE 0113 “Safety of machinery – Electrical equipment of machines – Part 1: General requirements,” Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

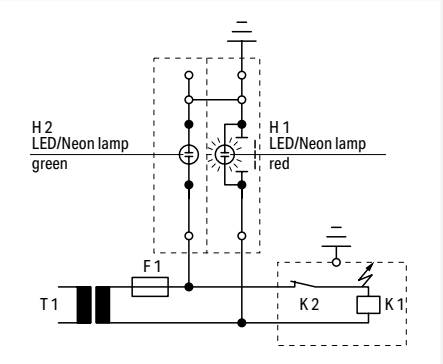
In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2. and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.

In the case of electronic circuits, connecting one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

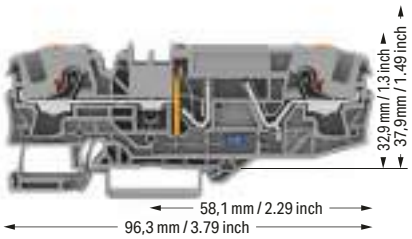


Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/neon lamp illuminates.

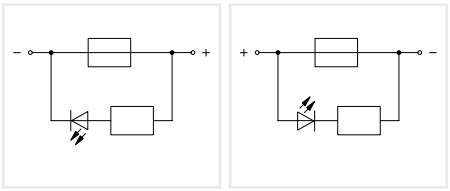
Fuse Terminal Block TOPJOB® S; with Push-Button; for Automotive Blade-Style Fuse
6 (10) mm²; 2206 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	
I_N 25 A (30 A) ❸	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



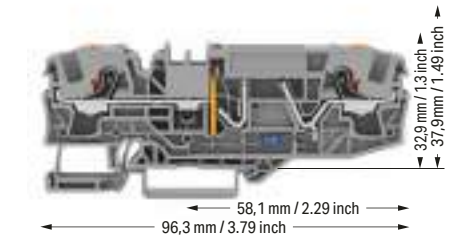
2206-1681/1000-429 2206-1681/1000-449



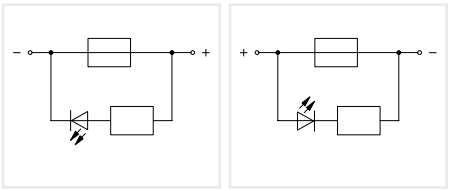
2-conductor fuse terminal block; with push-button; for automotive blade-style fuses; with test point; with blown fuse indication by LED; 12 V; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2206-1681/1000-429	25
gray	2206-1681/1000-449	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	
I_N 25 A (30 A) ❸	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



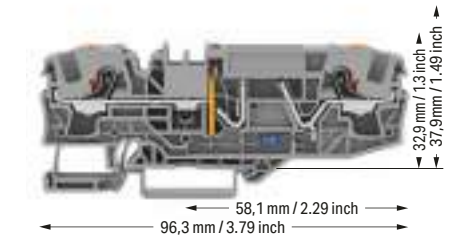
2206-1681/1000-413 2206-1681/1000-434



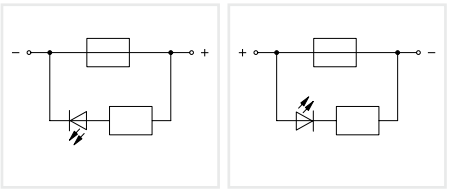
2-conductor fuse terminal block; with push-button; for automotive blade-style fuses; with test point; with blown fuse indication by LED; 24 V; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Farbe	Item No.	Pack. Unit
gray	2206-1681/1000-413	25
gray	2206-1681/1000-434	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	
I_N 25 A (30 A) ❸	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2206-1681/1000-414 2206-1681/1000-435



2-conductor fuse terminal block; with push-button; for automotive blade-style fuses; with test point; with blown fuse indication by LED; 48 V; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2206-1681/1000-414	25
gray	2206-1681/1000-435	25

Other terminal blocks with the same profile:		
Disconnect	2206-1671	Page 118

Accessories; 2206 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

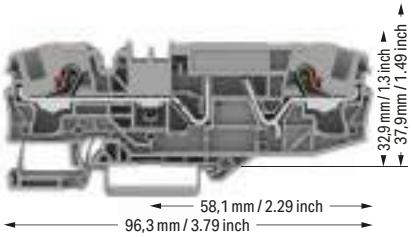
Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

Technical Data

0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	
I_N 25 A (30 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

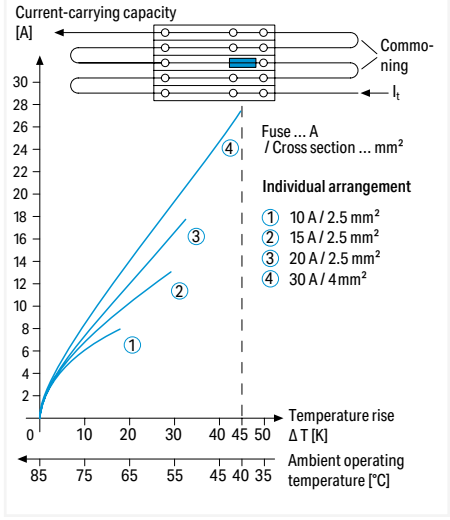
❸ LED power consumption: 4.8 mA

The 2 mm test slot is only approved for high impedance measurement up to max. 100 mA.

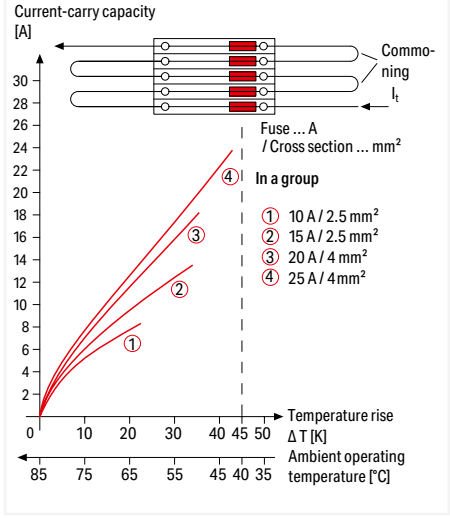
Blade-style fuses are not offered by WAGO.
Thermal automotive circuit breakers are not offered by WAGO.
WAGO recommends automotive circuit breakers from ETA.

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



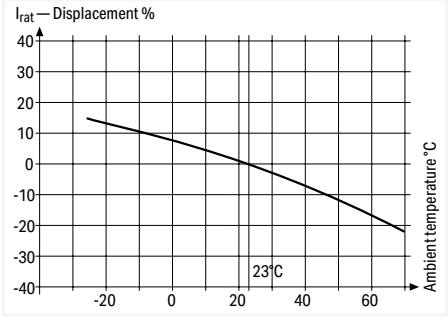
Application Notes for Use of Fuse Terminal Blocks
Diagram: "Individual Arrangement"



Application Notes for Use of Fuse Terminal Blocks
Diagram: "Block Arrangement"

2-conductor fuse terminal block; with push-button; for automotive blade-style fuses; with test point; without blown fuse indication
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2206-1681	25



Application Notes for Use of Fuse Terminal Blocks
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for an ambient temperature of 23°C).
Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).

Information from the mini-automotive, blade-type fuse manufacturers

Derating T_{amb} /°C	%	F_T
– 25	14	0.877
– 20	13	0.885
– 15	12	0.893
– 10	11	0.901
– 5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	– 2	1.020
35	– 4	1.042
40	– 6	1.064
45	– 8	1.087
50	– 10	1.111
55	– 13	1.149
60	– 16	1.190
65	– 19	1.235
70	– 22	1.282

Concerning product safety, fuse cartridges must generally be tested under both normal and faulty operating conditions within your application.

PUSH-IN CAGE CLAMP®

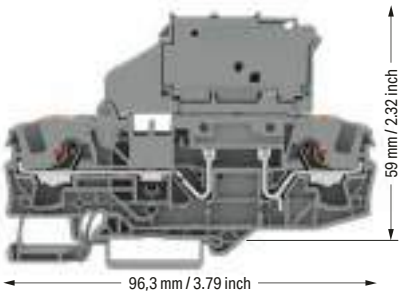
Fused Disconnect Terminal Block with a Pivoting Fuse Holder TOPJOB® S; with Push-Button; for 5 x 20 mm, 5 x 30 mm and ¼" x 1¼" Glass Cartridge Fuses

6 (10) mm²; 2206 Series

1

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
800 V / 8 kV / 3 ❷
I_N 10 A
Terminal block width: 7.5 mm / 0.295 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; without blown fuse indication
Electrical ratings are given by the fuse.

for 5 x 20 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2206-1611	25
orange	2206-1612	25
black	2206-1615	25

for 5 x 30 mm glass cartridge fuse

gray	2206-1621	25
blue	2206-1624	25
orange	2206-1622	25

for ¼" x 1¼" glass cartridge fuse

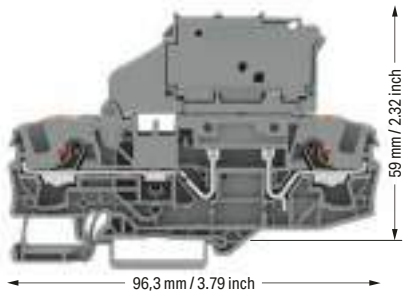
gray	2206-1631	25

Other terminal blocks with the same profile:

Disconnect	2206-1671	Page 118

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
800 V / 8 kV / 3 ❷
I_N 10 A
Terminal block width: 7.5 mm / 0.295 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor fused disconnect terminal block with a pivoting fuse holder; with push-button; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for 5 x 20 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2206-1611/1000-541 ❸	25
30 … 65 V	2206-1611/1000-542 ❹	25
120 V	2206-1611/1000-867	25
230 V	2206-1611/1000-836	25

for 5 x 30 mm glass cartridge fuse

12 … 30 V	2206-1621/1000-541 ❸	25
30 … 65 V	2206-1621/1000-542 ❹	25
230 V	2206-1621/1000-836	25
380 … 500 V	2206-1621/1000-859	25

for ¼" x 1¼" glass cartridge fuse

12 … 30 V	2206-1631/1000-541 ❸	25
30 … 65 V	2206-1631/1000-542 ❹	25
120 V	2206-1631/1000-867	25
230 V	2206-1631/1000-836	25
380 … 500 V	2206-1631/1000-859	25

Other terminal blocks with the same profile:

Disconnect	2206-1671	Page 118

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 30 V / 0,8 kV / 3

❹ 65 V / 1,5 kV / 3

The 2 mm test slot is only approved for high impedance measurement up to max. 100 mA.

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Fused Disconnect Terminal Block with a Pivoting Fuse Holder
Pivot the fuse holder into the locked open position.



Fused Disconnect Terminal Block with a Pivoting Fuse Holder
Fuse replacement:
Open the cover to replace the fuse.

Accessories; 2206 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

End plate for fuse terminal blocks; 2 mm thick



orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

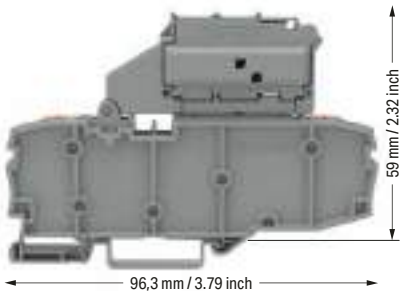
PUSH-IN CAGE CLAMP®

Fused Disconnect Terminal Block with a Pivoting Fuse Holder TOPJOB® S; with Push-Button; for ¼" x 1¼" Glass Cartridge Fuses

6 (10) mm²; 2206 Series

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
800 V / 8 kV / 3 ❷
I_N 10 A
Terminal block width: 10.4 mm / 0.409 inch
13 … 15 mm / 0.51 … 0.59 inch



Fused disconnect terminal block with a pivoting fuse holder and end plate; with push-button; without blown fuse indication
Electrical ratings are given by the fuse.

for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2206-1631/099-000	25

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
800 V / 8 kV / 3 ❷
I_N 10 A
Terminal block width: 10.4 mm / 0.409 inch
13 … 15 mm / 0.51 … 0.59 inch



Fused disconnect terminal block with a pivoting fuse holder and end plate; with push-button; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2206-1631/1099-541 ❸	25
30 … 65 V	2206-1631/1099-542 ❹	25
120 V	2206-1631/1099-867	25
230 V	2206-1631/1099-836	25
380 … 500 V	2206-1631/1099-859	25

Other terminal blocks with the same profile:

Disconnect	2206-1671	Page 118

Other terminal blocks with the same profile:

Disconnect	2206-1671	Page 118

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 30 V / 0,8 kV / 3

❹ 65 V / 1,5 kV / 3

The 2 mm test slot is only approved for high impedance measurement up to max. 100 mA.

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Pivoting fuse holder with spare fuse holder

Accessories; 2206 Series

Appropriate marking systems: WMB/Marking strips

End plate for fuse terminal blocks; 2 mm thick



orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

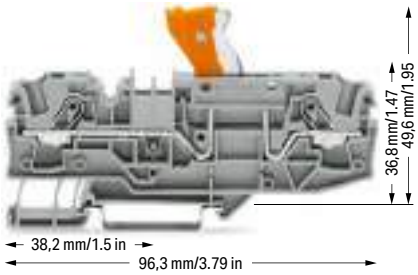
plain	793-5501	5

Disconnect Terminal Block, Ground Conductor Disconnect Terminal Block, Carrier Terminal Block, Through Terminal Block TOPJOB® S

6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor disconnect terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2006-1671	25
blue	2006-1674	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 125

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



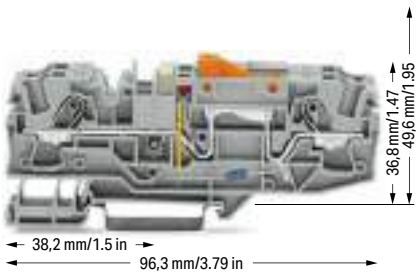
1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Ground conductor disconnect terminal block; with test point; orange disconnect link; gray

	Item No.	Pack. Unit
24 V	2006-1671/1000-848	12
48 V	2006-1671/1000-849	12
120 V	2006-1671/1000-850	12
230 V	2006-1671/1000-851	12

Other terminal blocks with the same profile:

Through	2006-1601	Page 125

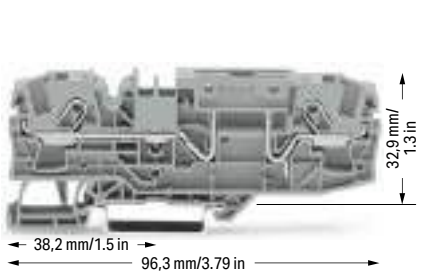
Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor carrier terminal block; with test point

Color	Item No.	Pack. Unit
gray	2006-1661	25
blue	2006-1664	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 125

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2006-401	100 (25)

Blind plug for carrier terminal block; indicates a disconnection



red	2006-451	100 (25)

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Lockout cap; for conductor entry and operating slot



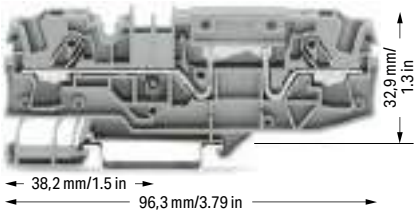
gray	2006-191	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2006-115	100 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 15 mm / 0.591 inch	
13 … 15 mm / 0.51 … 0.59 inch	

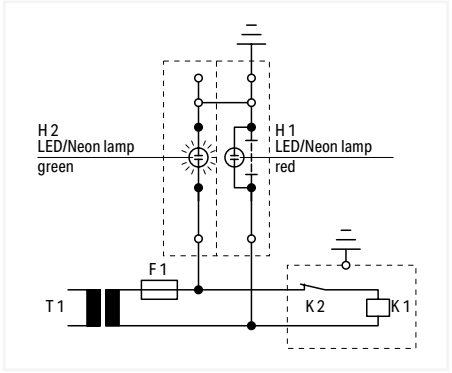


❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Operating condition
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.

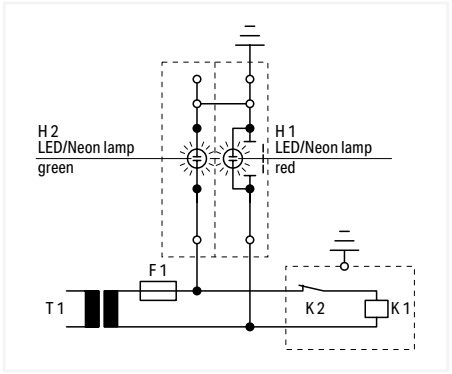
2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block		
Color	Item No.	Pack. Unit
gray	2006-1601	25
blue	2006-1604	25

Other terminal blocks with the same profile:		
Carrier	2006-1661	Page 124
Fuse	2006-1681	Page 127
Disconect	2006-1671	Page 124

IEC 60204/DIN VDE 0113 "Safety of machinery – Electrical equipment of machines – Part 1: General requirements," Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

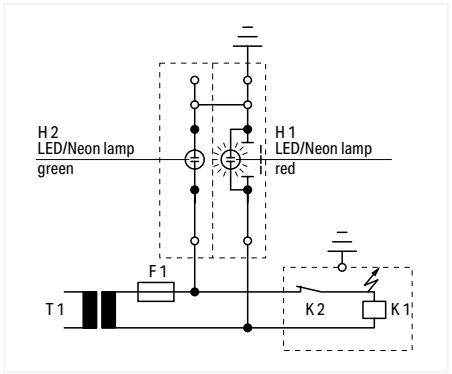
In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.

In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/neon lamp illuminates.

Accessories; item-specific			
Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2006-402	25
	3-way	2006-403	25
	4-way	2006-404	25
	5-way	2006-405	25
Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2006-433	25
	1 to 4	2006-434	25
	1 to 5	2006-435	25
Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2006-405/011-000	25

Double-deck marker carrier; pivoting			
	gray	2002-121	50 (25)

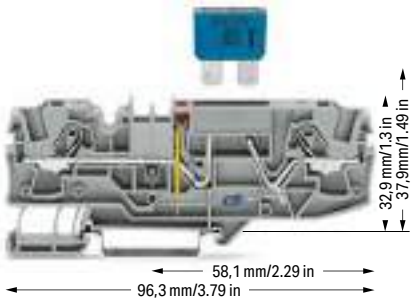


Ground conductor disconnect terminal block – top view

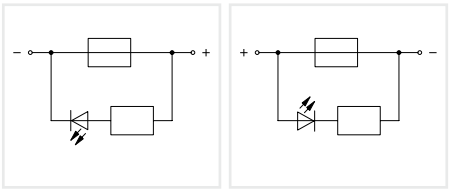
Fuse Terminal Block for Automotive Blade-Style Fuse TOPJOB® S
6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	12 V, 30 A
I_N 25 A (30 A) ❸	12 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



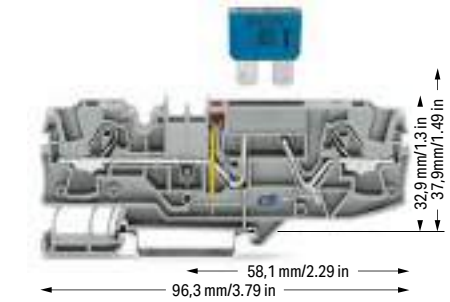
2006-1681/1000-429 2006-1681/1000-449



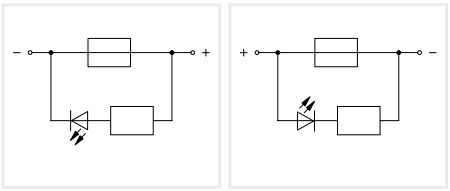
2-conductor fuse terminal block for automotive blade-style fuse; with test point; 12 V; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681/1000-429	25
gray	2006-1681/1000-449	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	24 V, 30 A
I_N 25 A (30 A) ❸	24 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



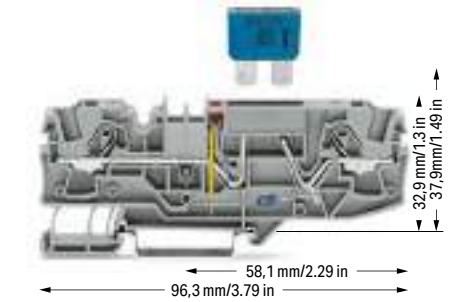
2006-1681/1000-413 2006-1681/1000-434



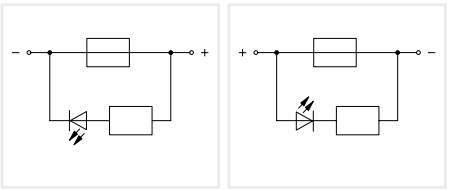
2-conductor fuse terminal block for automotive blade-style fuse; with test point; 24 V; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681/1000-413	25
gray	2006-1681/1000-434	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	48 V, 30 A
I_N 25 A (30 A) ❸	48 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2006-1681/1000-414 2006-1681/1000-435



2-conductor fuse terminal block for automotive blade-style fuse; with test point; 48 V; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681/1000-414	25
gray	2006-1681/1000-435	25

Other terminal blocks with the same profile:		
Through	2006-1601	Page 125

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2006-115	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

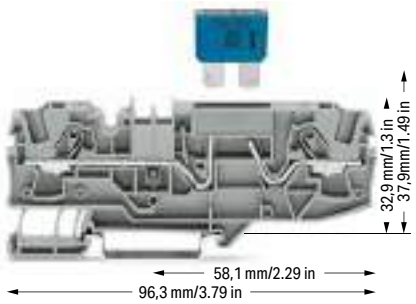
plain	793-5501	5

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	600 V, 30 A
I_N 25 A (30 A)	600 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor fuse terminal block for automotive blade-style fuse; with test point; without blown fuse indication; Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681	25

❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

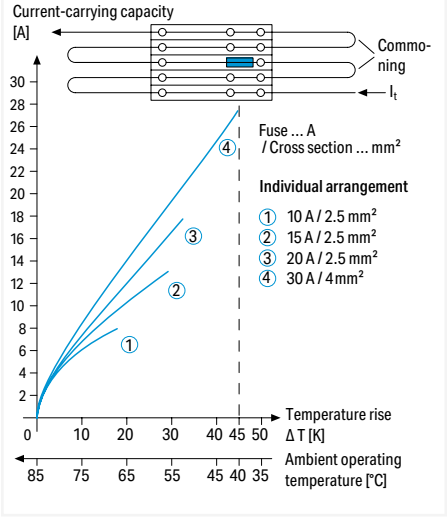
❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ LED power consumption: 4.8 mA

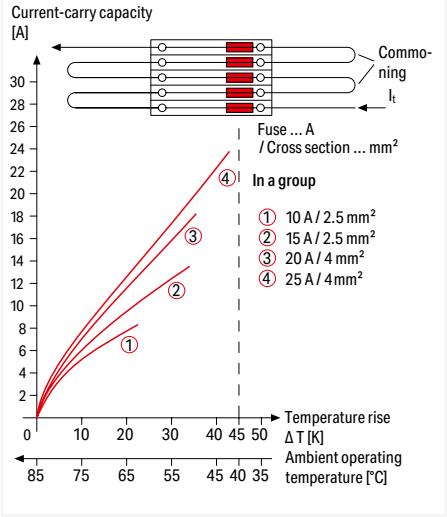
Blade-style fuses are not offered by WAGO.
Thermal automotive circuit breakers are not offered by WAGO.
WAGO recommends automotive circuit breakers from ETA.

Please observe the application notes:
Marking, from page 684

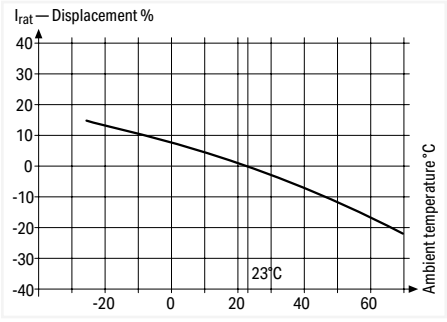
Approvals and corresponding ratings, visit www.wago.com



Application Notes on Fuse Terminal Blocks
Diagram: Individual arrangement



Application Notes on Fuse Terminal Blocks
Diagram: Block arrangement



Application Notes on Fuse Terminal Blocks
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for an surrounding air temperature of 23°C).
Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).

Information from the mini-automotive, blade-type fuse manufacturers

Derating T_{amb} /°C	%	F_T
– 25	14	0.877
– 20	13	0.885
– 15	12	0.893
– 10	11	0.901
– 5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	– 2	1.020
35	– 4	1.042
40	– 6	1.064
45	– 8	1.087
50	– 10	1.111
55	– 13	1.149
60	– 16	1.190
65	– 19	1.235
70	– 22	1.282

With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

PUSH-IN CAGE CLAMP®

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for 5 x 20 mm, 5 x 30 mm and ¼" x 1¼" Glass Cartridge Fuse

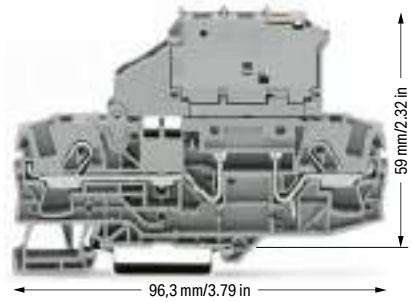
6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	30 V, 15 A
I_N 10 A	30 V, 15 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 30 V / 0,8 kV / 3

❹ 65 V / 1,5 kV / 3

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor fused disconnect terminal block with a pivoting fuse holder; without blown fuse indication
Electrical ratings are given by the fuse.

for 5 x 20 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-1611	25
orange	2006-1612	25

for 5 x 30 mm glass cartridge fuse

gray	2006-1621	25

for ¼" x 1¼" glass cartridge fuse

gray	2006-1631	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 125

2-conductor fused disconnect terminal block with a pivoting fuse holder; gray; with blown fuse indication by LED
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for 5 x 20 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-1611/1000-541 ❸	25
30 … 65 V	2006-1611/1000-542 ❹	25
120 V	2006-1611/1000-867	25
230 V	2006-1611/1000-836	25

for 5 x 30 mm glass cartridge fuse

12 … 30 V	2006-1621/1000-541 ❸	25
30 … 65 V	2006-1621/1000-542 ❹	25
230 V	2006-1621/1000-836	25
380 … 500 V	2006-1621/1000-859	25

for ¼" x 1¼" glass cartridge fuse

12 … 30 V	2006-1631/1000-541 ❸	25
30 … 65 V	2006-1631/1000-542 ❹	25
120 V	2006-1631/1000-867	25
230 V	2006-1631/1000-836	25
380 … 500 V	2006-1631/1000-859	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 125



Fused disconnect terminal block with a pivoting fuse holder - pivoting the fuse holder into the locked open position.



Fused disconnect terminal block with a pivoting fuse holder – fuse replacement: Open the cover to replace the fuse.

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

End plate for fuse terminal blocks; 2 mm thick



orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2006-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2006-115	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

PUSH-IN CAGE CLAMP®

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for ¼" x 1¼" Glass Cartridge Fuse

6 (10) mm²; 2006 Series

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	600 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 10.4 mm / 0.409 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Fused disconnect terminal block with a pivoting fuse holder and end plate; without blown fuse indication
Electrical ratings are given by the fuse.

for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-1631/099-000	25

Other terminal blocks with the same profile:		
Through	2006-1601	Page 125

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V / 8 kV / 3 ❷	30 V, 15 A
I_N 10 A	30 V, 15 A
Terminal block width: 10.4 mm / 0.409 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Fused disconnect terminal block with a pivoting fuse holder and end plate; gray; with blown fuse indication by LED
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-1631/1099-541 ❸	25
30 … 65 V	2006-1631/1099-542 ❹	25
120 V	2006-1631/1099-867	25
230 V	2006-1631/1099-836	25
380 … 500 V	2006-1631/1099-859	25

Other terminal blocks with the same profile:		
Through	2006-1601	Page 125

❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 30 V / 0,8 kV / 3

❹ 65 V / 1,5 kV / 3

Please observe the application notes:
Jumpers, from page 185
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Pivoting fuse holder with spare fuse holder

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End plate for fuse terminal blocks; 2 mm thick



orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 5	2002-435	25
1 to 7	2002-437	25
1 to 9	2002-439	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



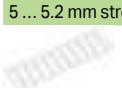
1-3-5	2002-405/011-000	25

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable



plain	793-5501	5

Glass cartridge fuses

Series Item No.		Overload and short circuit protection		Short circuit protection only	
		Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
		Fused disconnect terminal blocks			
2006-1611	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1621	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631 /099-...	10.4	2.5 W	2.5 W	2.5 W	2.5 W
2006-1631 /1099-...	10.4	2.5 W	2.5 W	2.5 W	2.5 W

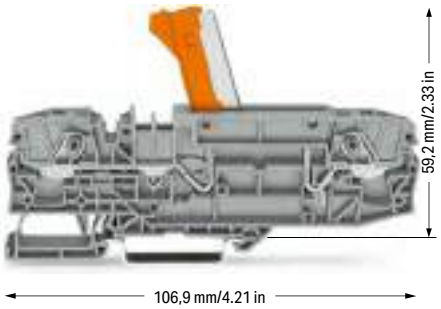
When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Disconnect/Test Terminal Block, Carrier Terminal Block, Through Terminal Block TOPJOB® S
6 (10) mm²; 2006 Series

1

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷
I_N 30 A 600 V, 30 A; 1000 V, 30 A
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch

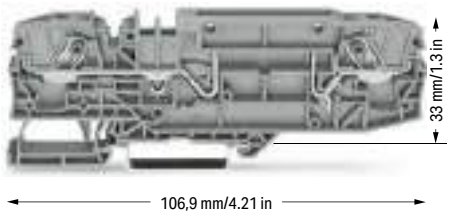


2-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2006-8671	12
blue	2006-8674	12

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷
I_N 30 A 600 V, 30 A; 1000 V, 30 A
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor carrier terminal block; with test point

Color	Item No.	Pack. Unit
gray	2006-8661	12
blue	2006-8664	12

Accessories; item-specific

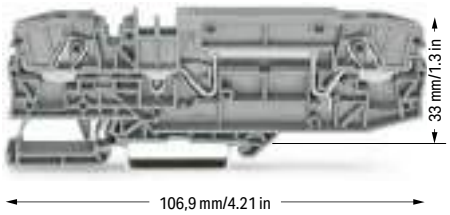
Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange 2006-8401 48 (12)

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷
I_N 30 A 600 V, 30 A; 1000 V, 30 A
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2006-8601	12
blue	2006-8604	12

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2006-8692	48 (12)
gray	2006-8691	48 (12)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 2006-115 100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray



1 to 3	2006-433	25
1 to 5	2006-435	25

Lockout cap; for conductor entry and operating slot



gray 2006-191 25

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

PUSH-IN CAGE CLAMP®

❶ Conductor range: 0.5 … 10 mm² “s+f-st”;
Push-in termination: 2.5 … 10 mm² “s” and
2.5 … 6 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 1000 VAC/DC = rated voltage
1500 VDC
12 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Marking, from page 684

Protective warning markers must be applied individually.

Approvals and corresponding ratings,
visit www.wago.com

Both 2006-8671 and 2006-8661 Disconnect Terminal Blocks are specially designed for use in photovoltaic and wind power systems, where voltages exceeding 1,000 V (IEC) and 600 V (UL) occur (e.g., generator junction boxes).

- Ideal for high voltages in renewable energy applications
- **Disconnect terminal blocks with two alternative disconnect options:**
  with orange knife disconnect (2006-8671)
  with orange disconnect plug (2006-8661)
- These 2006 Series terminal blocks are approved for 1,500 VDC (IEC) or 1,000 VDC (UL) and 30 A.
- With a terminal block width of 15 mm, the maximum cross-section for solid and fine-stranded conductors is 10 mm² (AWG 8) and 6 mm² (AWG 10) for ferruled conductors.
- Equipped with two test slots
- Compatible with through terminal blocks of the same profile and all other terminal blocks TOPJOB® S



Disconnect/test terminal block with knife disconnect (2006-8671) in disconnect position



Carrier terminal block with disconnect plug (2006-8401) in operating position



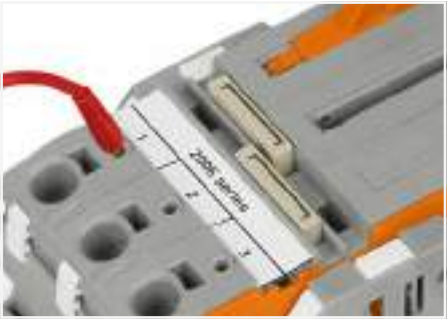
Carrier terminal block with disconnect plug (2006-8401) in parked position



Commoning a 15 mm-wide terminal block via push-in type jumper bars: 1 to 3 (2006-433) and 1 to 5 (2006-435).



Cover (2006-191) seals unused conductor entry.



Test slots on both terminal block sides allow for direct measurement.



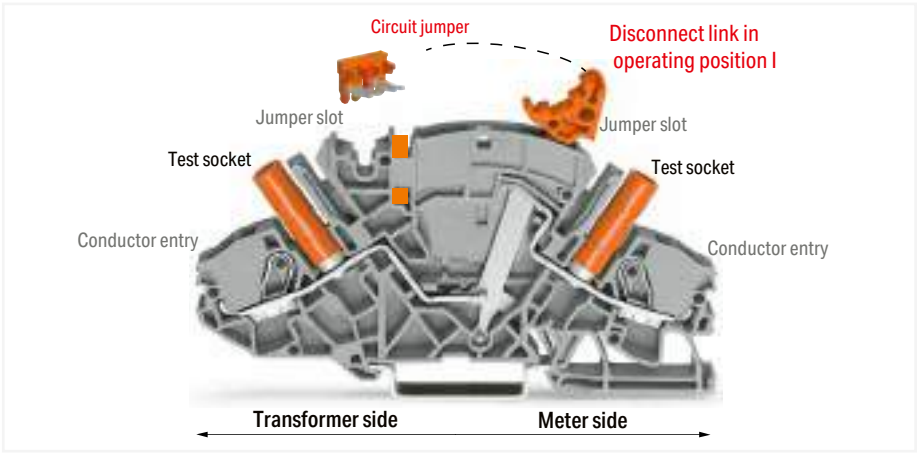
Test slots on both terminal block sides allow for direct measurement.

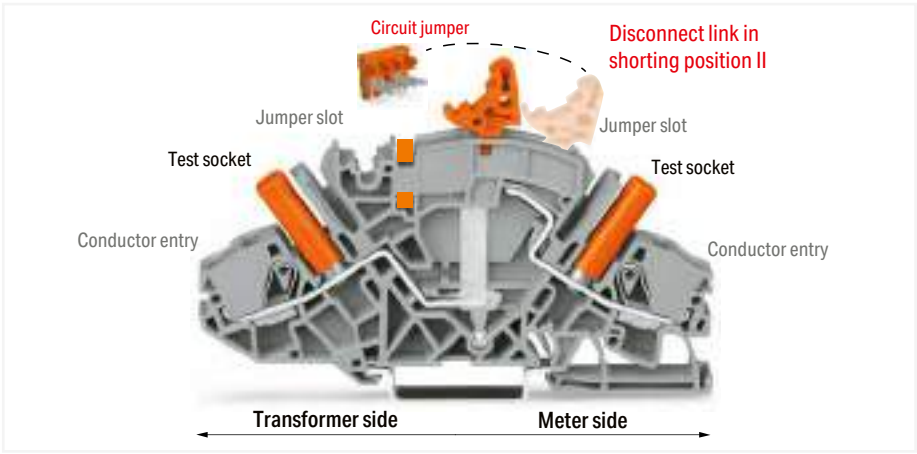


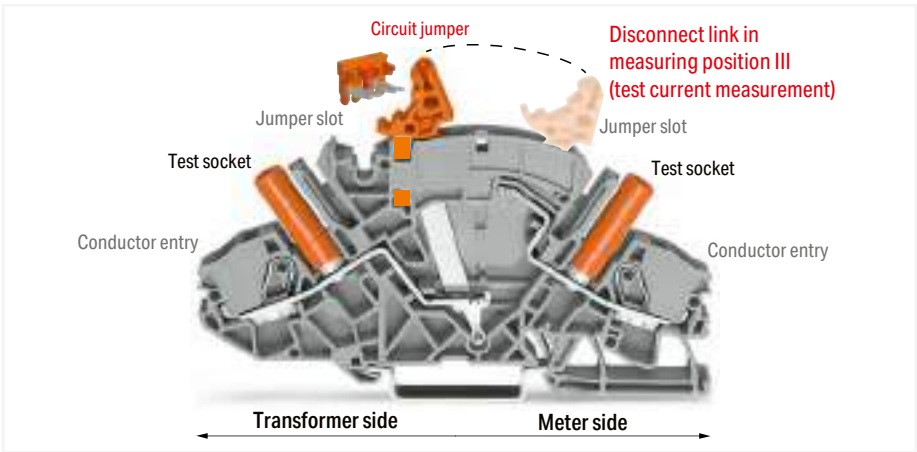
Alternatively, measurement can also be performed using Connectors (2006-511) from terminal block 1 to 2. Spacer modules (2006-549) must be used to compensate for the 15 mm terminal block width.

Current Transformer Terminal Blocks TOPJOB® S, 2007-8821 (Orange Disconnect Link)

1







Current Transformer (Disconnect/Test) Terminal Block (2007-8821) is designed for current transformer circuits.

First, the current transformer is shorted via disconnect link and circuit jumper (insert jumper, move disconnect link from operating position I to shorting position II, activate shorting path). Connecting a measurement device via test socket on the meter side can only be performed once circuit disconnection is complete (disconnect link in measuring position III).

Advantages:

- Top-of-unit circuit jumper slot for shorting path activation
- Disconnect link provides intuitive and easy operation, as well as exact switching status indication.
- Combines high functionality with compact design (99.6 mm long and 8 mm wide).
- All 2007 Series terminal blocks are rated at 30 A/500 V (IEC) and 300 V (UL).
- With a terminal block width of 8 mm, the maximum cross-section for solid and fine-stranded conductors is 10 mm² (8 AWG) and 6 mm² (10 AWG) for ferruled conductors.
- Touch-proof test sockets for 4 mm Ø test plugs on transformer and meter side.
- Compatible with through and ground conductor terminal blocks having the same profile.



Preparing shorting path for the current transformer circuits.



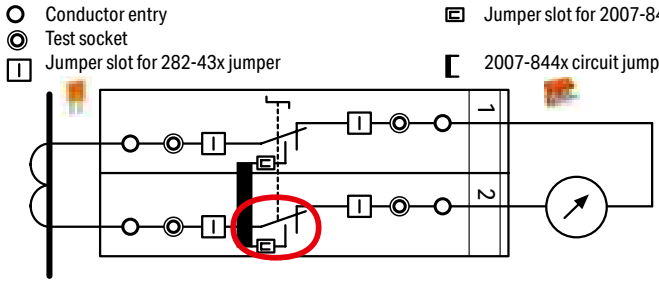
Insert insulated, touch-proof circuit jumpers into jumper slot.



Using locking covers or profiles for adjacent terminal blocks allows disconnect links to be operated simultaneously.

Implementing a Current and Voltage Transformer Circuit TOPJOB® S

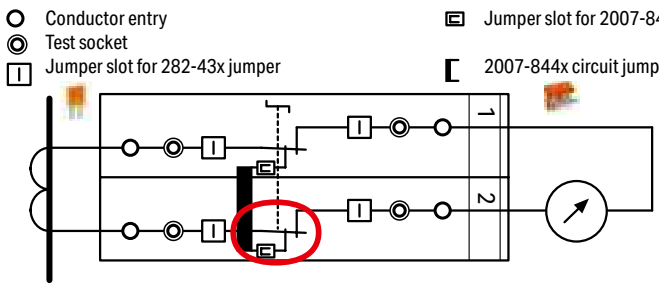




Disconnect link in operating position I
Terminal blocks required:
2 x disconnect/test terminal block (2007-8821)
1 x circuit jumper, orange (2007-8442)
Locking covers or interlocking links (option)

In the operating position, the measurement device is connected to the transformer, the circuit jumper is inserted and the disconnect link is in position I.

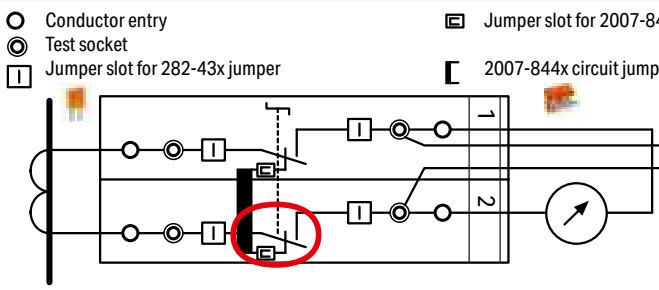




Disconnect link in shorting position II

The transformer is not disconnected from the measuring device yet, the shorting path is activated by moving the disconnect link into shorting position II and the transformer is safely shorted.

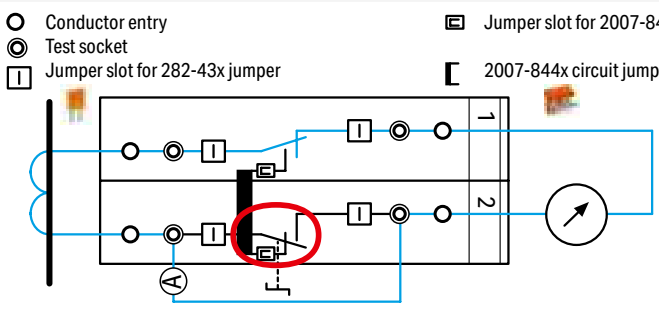




Test current measurement: Disconnect link in measuring position III

The measuring device is electrically disconnected from the transformer. If required, an external voltage can be applied to the measuring device via the test socket.





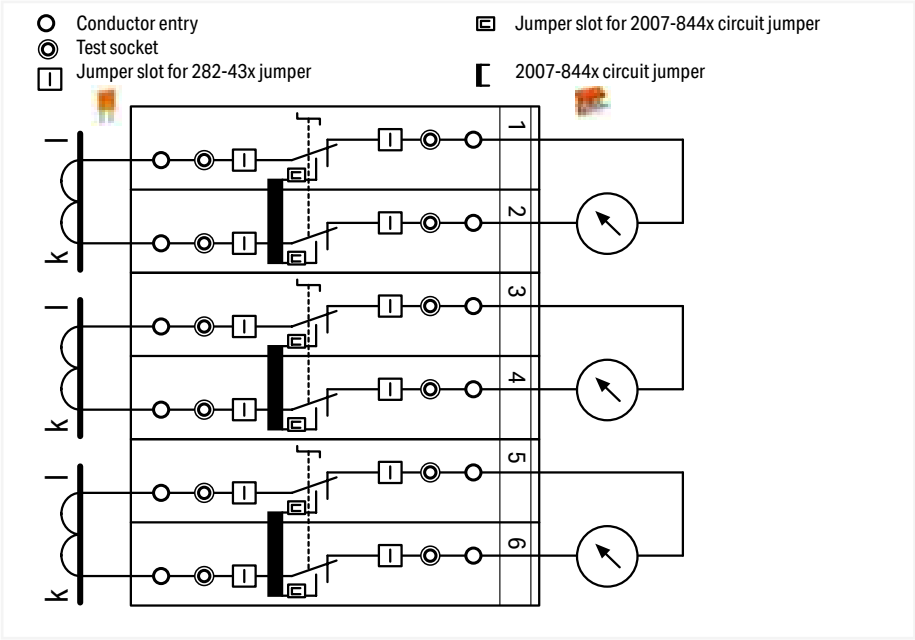
Measurement testing (using both test sockets)
Terminal block 1: Disconnect link in operating position I
Terminal block 2: Disconnect link in measuring position III

Measurement testing: First insert the reference current meter (A) into the test socket, then move the disconnect link into measurement point III (test current measurement).

Examples for Current Transformer Circuits TOPJOB® S



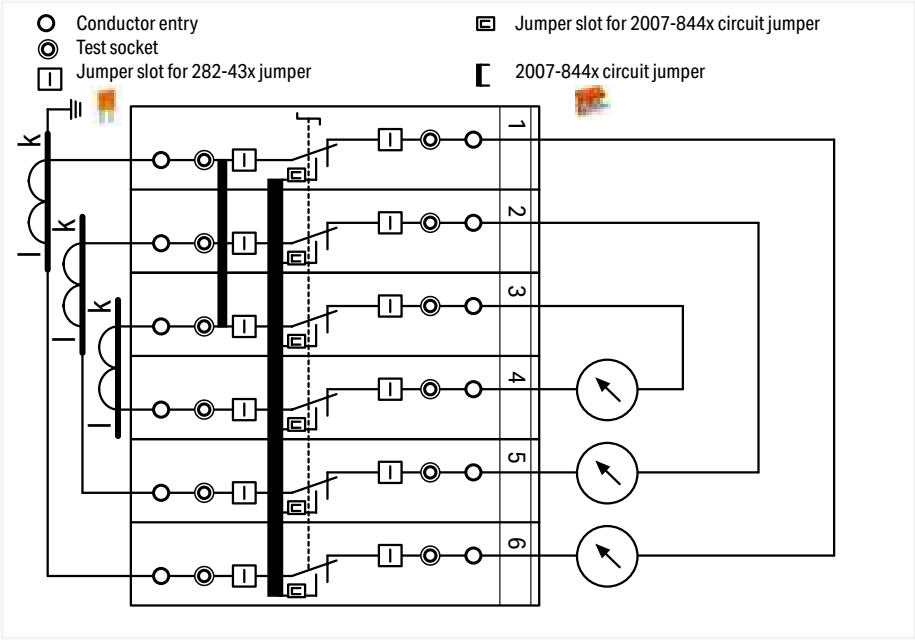
Measuring set for a three-phase current transformer
Terminal blocks required:
- 6 x disconnect/test terminal block (2007-8821)
- 3 x circuit jumper, orange (2007-8442)
- In addition: interlocking link, locking cover, lock-out



Pairs of disconnect links are interconnected via locking cover or interlocking link. Measurement testing is performed after the interlocking is released.

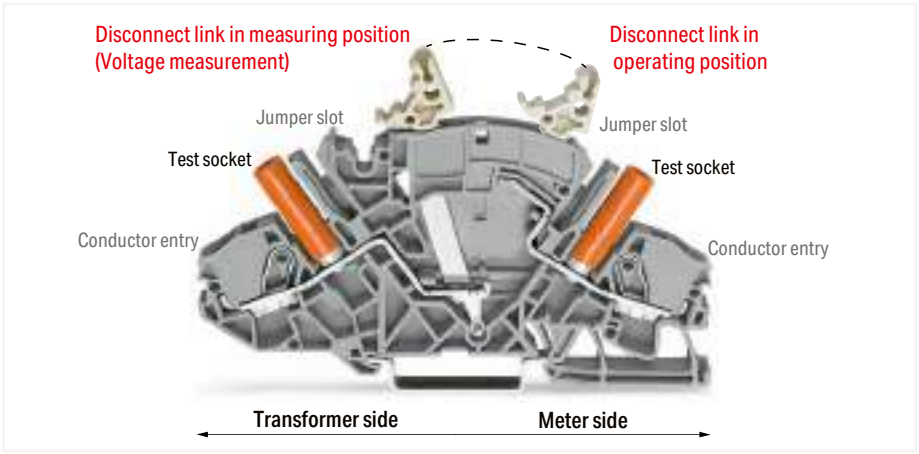


Measuring set for a three-phase current transformer with 'Y' point
Terminal blocks required:
- 6 x disconnect/test terminal block (2007-8821)
- 1 x circuit jumper, orange (2007-8446)
- 1 x jumper, orange (282-433)
- In addition: interlocking link, locking cover, lock-out



All six disconnect links are interconnected via locking cover or interlocking link.

Voltage Transformer Terminal Blocks TOPJOB® S, 2007-8811 (Light Gray Disconnect Link)



Voltage Transformer (Disconnect/Test) Terminal Block (2007-8811) is designed for current transformer circuits.

First, disconnect the voltage transformer from the circuit (move disconnect link from operating position to measurement position). Connecting a measurement device via test socket on the meter side can only be performed after disconnection is complete (measuring position).

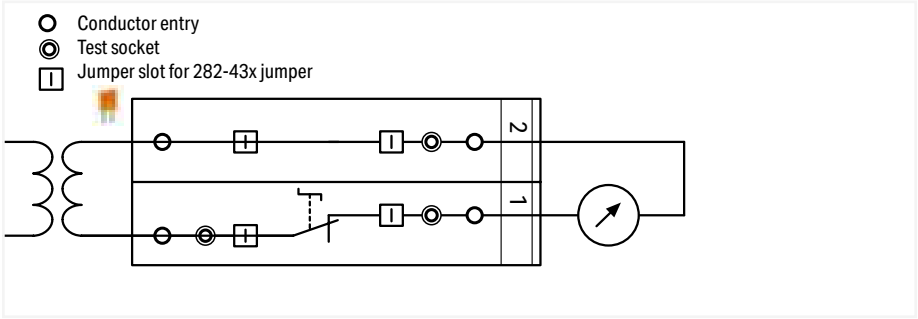
Advantages:

- For voltage transformer circuits (no circuit jumper slot required as for 2007-8821 Current Transformer Terminal Block)
- Disconnect link provides intuitive and easy operation, as well as exact switching status indication.
- Combines high functionality with compact design (99.6 mm long and 8 mm wide).
- All 2007 Series terminal blocks are rated at 30 A/500 V (IEC) and 300 V (UL).
- With a terminal block width of 8 mm, the maximum cross-section for solid and fine-stranded conductors is 10 mm² (8 AWG) and 6 mm² (10 AWG) for ferruled conductors.
- Touch-proof test sockets for 4 mm Ø test plugs on transformer and meter side.
- Compatible with through and ground conductor terminal blocks having the same profile.



Example for voltage transformer testing:
Measuring set for single-phase voltage transformer testing
Terminal blocks required:

- 1 x disconnect/test terminal block (2007-8811)
- 1 x through terminal block (2007-8801)
- 1 x end plate, orange (2007-8892)
- In addition: locking cover, lock-out



Disconnecting the voltage transformer from the circuit: Move disconnect link from operating position to measurement position.
Voltage measurement: Connecting a measurement device via test socket on the meter side can only be performed after disconnection is complete (measuring point).



Marking via WMB Multi markers or marking strips.



Additional commoning option on the transformer side



Multipole switching via snap-on type, transparent (locking) cover for disconnect links.

Disconnect/Test Terminal Block, Through Terminal Block, Ground Conductor Terminal Block TOPJOB® S; for Current and Voltage Transformer Circuits

6 mm²; 2007 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	300 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor disconnect/test terminal block; e.g., current transformer circuits; with circuit jumper slot; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	2007-8821	20

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	300 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Disconnect/test terminal block; e.g., for voltage transformer circuits; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	2007-8811	20

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V / 6 kV / 3 ❷	300 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor through terminal block; with touch-proof test socket; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	2007-8801	20
blue	2007-8804	20

Accessories; item-specific

Ajacent jumper for switching lever; insulated; I_N 30 A; orange



2-way	2007-8442	50 (10)
3-way	2007-8443	50 (10)
4-way	2007-8444	50 (10)
5-way	2007-8445	50 (10)
6-way	2007-8446	50 (10)
7-way	2007-8447	50 (10)
8-way	2007-8448	50 (10)

Accessories; 2007 Series

Appropriate marking systems: WMB/Marking strips

End and separator plate; 1.5 mm thick; without lock-out seal option



orange	2007-8892	50 (10)
gray	2007-8891	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option



orange	2007-8894	50 (10)
gray	2007-8893	50 (10)

Lock-out device; for disconnect link



yellow	2007-8899	100 (20)

Interlocking link; mechanically locks multiple links; 1 m long



transparent	210-254	1

Locking cover; mechanically locks multiple links; transparent



1-pole	282-881	50 (10)
2-pole	282-882	50 (10)
3-pole	282-883	50 (10)
4-pole	282-884	50 (10)
5-pole	282-885	50 (10)
6-pole	282-886	50 (10)
7-pole	282-887	50 (10)
8-pole	282-888	50 (10)

Jumper; insulated; I_N 30 A; orange



2-way	282-432	50 (10)
3-way	282-433	50 (10)
4-way	282-434	50 (10)
5-way	282-435	50 (10)
6-way	282-436	50 (10)
7-way	282-437	50 (10)
8-way	282-438	50 (10)
9-way	282-439	50 (10)
10-way	282-440	50 (10)

Jumper with safety lid; insulated; I_N 30 A; orange



2-way	282-432/100-000	50 (10)
3-way	282-433/100-000	50 (10)
4-way	282-434/100-000	50 (10)

Jumper; insulated; I_N 30 A; orange



1-3	282-433/011-000	50 (10
1-3-5	282-435/011-000	50 (10
1-3-4-5	282-435/300-000	50 (10
1-2-4-6	282-436/301-000	50 (10
1-3-5-7	282-437/011-000	50 (10
1-4-7	282-437/012-000	50 (10
1-2-5-8	282-438/300-000	50 (10
1-4-7-8	282-438/301-000	50 (10
1-3-5-7-9	282-439/011-000	50 (10

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2006-115	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow



k/l (50x)	794-5553/000-002	5

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue



U/V (50x)	794-5554/000-006	5

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG

Terminal block width: 8 mm / 0.315 inch

13 … 15 mm / 0.51 … 0.59 inch



2-conductor ground terminal block; with touch-proof test socket; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
green-yellow	2007-8807	20

❶ Conductor range: 0.5 … 10 mm² “s+f-st”;
Push-in termination: 2.5 … 10 mm² “s” and
2.5 … 6 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Marking via WMB Multi markers or marking strips.



Lock-out prevents accidental operation of disconnect link.



Lock-out snaps into one of two notched positions.



Interlocking link mechanically locks multiple links for multi-pole switching applications.



A lock-out seal can be used on the disconnect link in operating position I in combination with an end and separator plate (2007-8893 or 2007-8894).

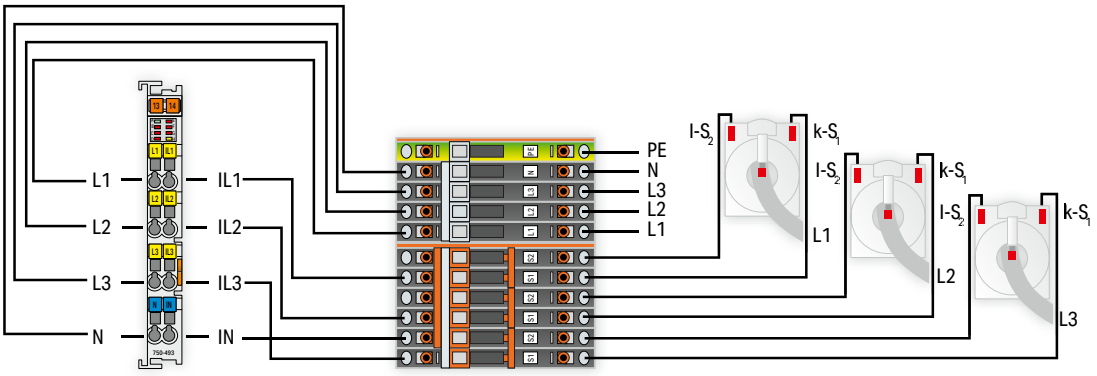
Terminal Block Assembly TOPJOB® S; for Current and Voltage Transformers
6 (10) mm²; 2007 Series

1





Item No. for 2007-8873 Designation	Quantity
249-117 Screwless end stop; 10 mm wide	2
282-882 Locking cover; mechanically locks multiple links, 2-pole	3
282-884 Locking cover; mechanically locks multiple links, 4-pole	1
2007-8442 Circuit jumper; insulated; 2-way	3
2007-8807 2-conductor ground terminal block; with touch-proof test socket; for 4 mm Ø test plugs	1
2007-8811 2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs	4
2007-8821 2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs	6
2007-8892 End and separator plate; 1.5 mm thick; without lock-out seal option	2
2009-115 WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable	21 markers
282-435/011-000 Jumper; insulated; 1-3-5 Assembly width incl. end stop: 11.2 cm	1



3-Phase Power Measurement Module, 750 Series

Terminal Block Assembly for Current and Voltage Transformers, 2007 Series

Current Transformers, 855 Series

PUSH-IN CAGE CLAMP®





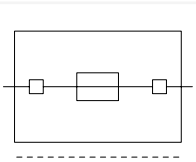
Item No. for 2007-8876 Designation	Quantity
249-117 Screwless end stop; 10 mm wide	2
282-369 Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)	1
282-882 Locking cover; mechanically locks multiple links, 2-pole	3
2007-8442 Circuit jumper; insulated; 2-way	3
2007-8821 2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs	6
2007-8892 End and separator plate; 1.5 mm thick; without lock-out seal option	1
2009-115 WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable	12 markers
282-435/011-000 Jumper; insulated; 1-3-5 Assembly width incl. end stop: 8.5 cm	1

Fuse Plug TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2004 Series

1

Technical Data
250 V / I_N 6.3 A
Plug width: 6.1 mm / 0.24 inch



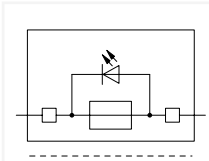


Fuse plug with pull-tab; for 5 x 20 mm glass cartridge fuses
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	2004-911	50

Technical Data
250 V / I_N 6.3 A
Plug width: 6.1 mm / 0.24 inch





Fuse plug with pull-tab; for 5 x 20 mm glass cartridge fuses; with indicatior lamp, gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2004-911/1000-541 ❶	50
30 … 65 V	2004-911/1000-542 ❷	50
120 V	2004-911/1000-867	50
230 V	2004-911/1000-836	50

❶ 30 V / 0,8 kV / 3
❷ 65 V / 1,5 kV / 3

Approvals and corresponding ratings, visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1661	50

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1861	50

2-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1661	50

4-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1861	50

End and intermediate plate; 1 mm thick



orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

End and intermediate plate; 1 mm thick



orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1761	50

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1961	50

3-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1761	50

2-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1961	50

End and intermediate plate; 1 mm thick



orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



L/L	2002-2961	50

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



L/N	2002-2963	50

End and intermediate plate; 1 mm thick



orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

End plate for fuse terminal blocks; 2 mm thick



orange	2002-992	100 (25)
gray	2002-991	100 (25)

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug



I_N 6.3 A	281-503	250 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

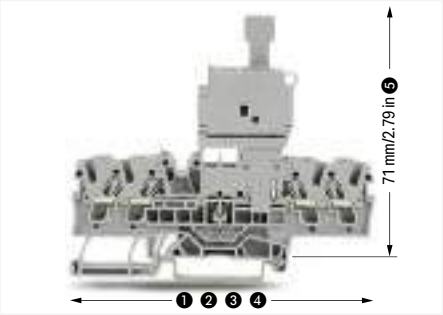
plain	793-5501	5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

F1, ..., F10 (10x)	794-5615	5
F11, ..., F20 (10x)	794-5616	5
F21, ..., F30 (10x)	794-5617	5
F31, ..., F40 (10x)	794-5618	5
F41, ..., F50 (10x)	794-5619	5

PUSH-IN CAGE CLAMP®

Fuse Plugs TOPJOB® S on Carrier Terminal Blocks 2.5 (4) mm²
Technical Information



Fuse plug dimensions:
❶ 66.1 mm / 2.62 inch for 2002-1661
❷ 76.8 mm / 3.02 inch for 2002-1761
❸ 87.5 mm / 3.45 inch for 2002-1861
❹ 72.9 mm / 2.87 inch for 2002-1961
❺ with inserted fuse plug



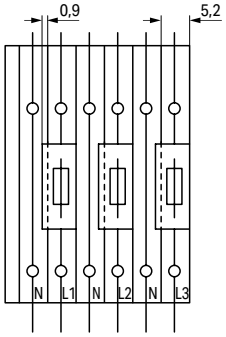
Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 5.2/6.1 mm
- May be used as a disconnect plug in combination with a shorting link

Glass cartridge fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2004-911 2004-911/....-....	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.



Open side of terminal block left

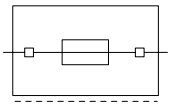
Please note:
The extra width of the plug (6.1 mm compared to 5.2 mm for carrier terminal blocks) must be compensated for with intermediate plates (1 mm) when building an assembly of carrier terminal blocks equipped with fuse plugs.

Fuse Plug TOPJOB® S on Carrier Terminal Block 6 (10) mm²
2006 Series

1

Technical Data
800 V / I_N 10 A
Plug width: 7.4 mm / 0.291 inch





Fuse plug with pull-tab
Electrical ratings are given by the fuse.

for 5 x 20 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-911	25

for 5 x 30 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-921	25

for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-931	25

Accessories; item-specific

End and intermediate plate; 1 mm thick

	orange	2006-1692	100 (25)
	gray	2006-1691	100 (25)

End plate for fuse terminal blocks; 2 mm thick

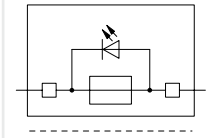
	orange	2006-992	100 (25)
	gray	2006-991	100 (25)

2-conductor carrier terminal block;
0.5 … 6 (10) mm² / 20 … 8 AWG
Terminal block width: 7.5 mm / 0.295 inch

	gray	2006-1661	25
	blue	2006-1664	25

Technical Data
800 V / I_N 10 A
Plug width: 7.4 mm / 0.291 inch





Fuse plug with pull-tab; with indicatior lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for 5 x 20 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-911/1000-541 ❶	25
30 … 65 V	2006-911/1000-542 ❷	25
230 V	2006-911/1000-836	25

for 5 x 30 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-921/1000-541 ❶	25
30 … 65 V	2006-921/1000-542 ❷	25
230 V	2006-921/1000-836	25
380 … 500 V	2006-921/1000-859	25

for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-931/1000-541 ❶	25
120 V	2006-931/1000-867 ❷	25
230 V	2006-931/1000-836	25
380 … 500 V	2006-931/1000-859	25

Accessories; item-specific

End and intermediate plate; 1 mm thick

	orange	2006-1692	100 (25)
	gray	2006-1691	100 (25)

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug

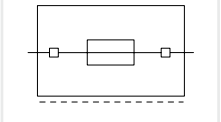
	I_N 6.3 A	281-503	250 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

	plain	793-5501	5

Technical Data
800 V / I_N 10 A
Plug width: 10.4 mm / 0.409 inch





Fuse plug with pull-tab
Electrical ratings are given by the fuse.

for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-931/099-000	25

Accessories; item-specific

Intermediate plate; 2.9 mm thick

	orange	2006-1696	100 (25)
	gray	2006-1695	100 (25)

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

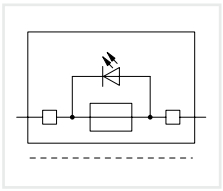
	F1, ..., F10 (10x)	794-5615	5
	F11, ..., F20 (10x)	794-5616	5
	F21, ..., F30 (10x)	794-5617	5
	F31, ..., F40 (10x)	794-5618	5
	F41, ..., F50 (10x)	794-5619	5

Technical Data

800 V / I_N 10 A

Plug width: 10.4 mm / 0.409 inch





Fuse plug with pull-tab; with indicator lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
◯ 12 … 30 V	2006-931/1099-541 ❶	25
◯ 30 … 65 V	2006-931/1099-542 ❷	25
◯ 230 V	2006-931/1099-836	25
◯ 380 … 500 V	2006-931/1099-859	25

Accessories; item-specific

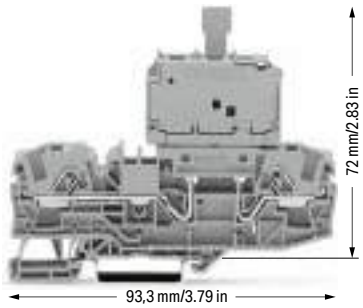
Intermediate plate; 2.9 mm thick

	orange	2006-1696	100 (25)
	gray	2006-1695	100 (25)

❶ 30 V / 0,8 kV / 3

❷ 65 V / 1,5 kV / 3

Approvals and corresponding ratings, visit www.wago.com



Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 7.5/7.4 (10.4) mm
- May be used as a disconnect plug in combination with a shorting link



Pivoting fuse holder with spare fuse holder

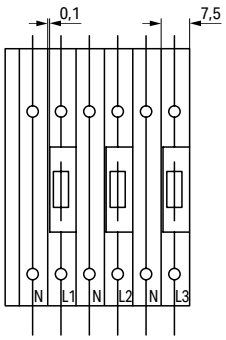


The end plate ensures that the fuse can only be removed when the fuse plug is pulled out.

Glass cartridge fuses

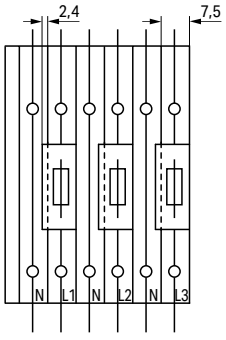
Series Item No.		Overload and short circuit protection		Short circuit protection only	
		Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
		Fused disconnect terminal blocks			
2006-911	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-921	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-931	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-931 /099-...	10.4	2.5 W	2.5 W	2.5 W	2.5 W
2006-931 /1099-...	10.4	2.5 W	2.5 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.



Open side of terminal block left

When using 10.4 mm wide plugs, please note:
The extra width of the plug (10.4 mm compared to 7.5 mm for carrier terminal blocks) must be compensated for with intermediate plates (2.9 mm) when building an assembly of carrier terminal blocks equipped with fuse plugs.



Open side of terminal block left

When using 10.4 mm wide plugs, please note:
The extra width of the plug (10.4 mm compared to 7.5 mm for carrier terminal blocks) must be compensated for with intermediate plates (2.9 mm) when building an assembly of carrier terminal blocks equipped with fuse plugs.

Sensor Terminal Blocks and Actuator Terminal Blocks TOPJOB® S
2000 Series
Description and Installation



Commoning (signal level):
Commoning the signal level with push-in type jumper bars (2000 Series). Models with an LED can only be commoned in one jumper slot.
Test Plug Adapters can be used in all jumper slots.



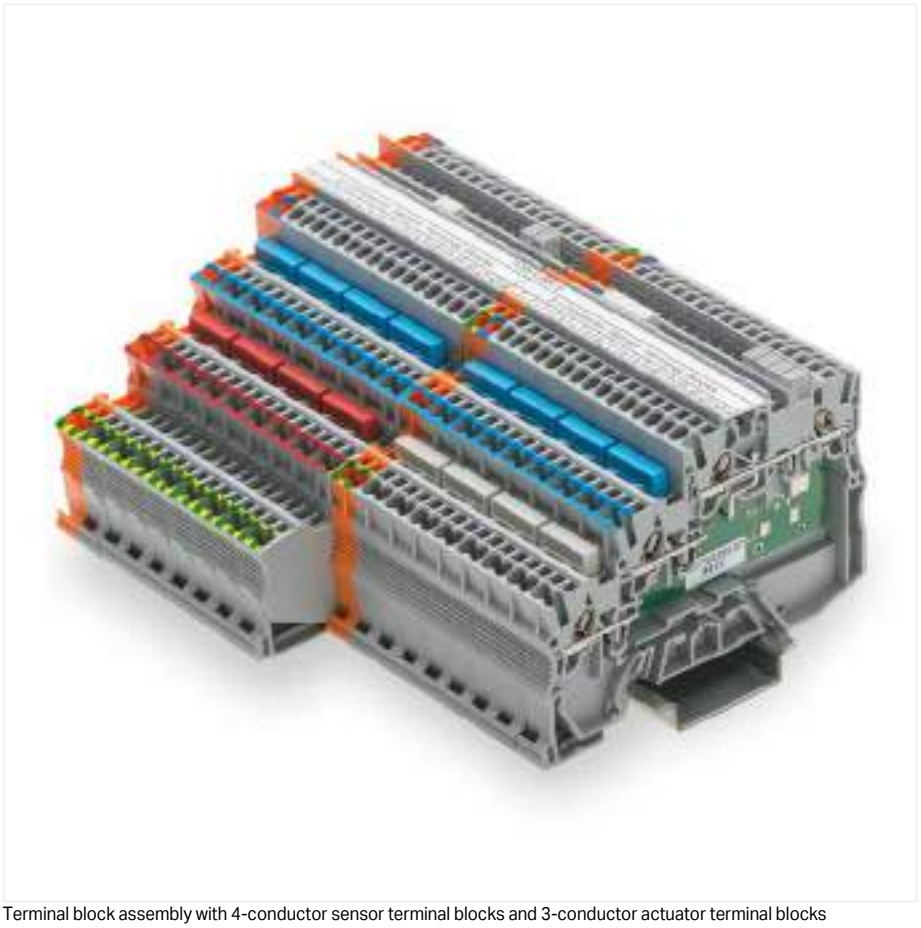
Upper level: two independent signal pathways



Commoning (potential level):
Commoning potential levels via push-in type jumper bars (2000 Series).



Power supply:
Orange supply terminal block of same profile from both the cabinet and sensor sides



Terminal block assembly with 4-conductor sensor terminal blocks and 3-conductor actuator terminal blocks



Marking:
Marking strips (2009-110) – from the top or the side



Marking:
3.5 mm WMB markers (793-35xx) from the top or the side – additional marking option via marker carrier



3-conductor sensor LED terminal block with a connected sensor



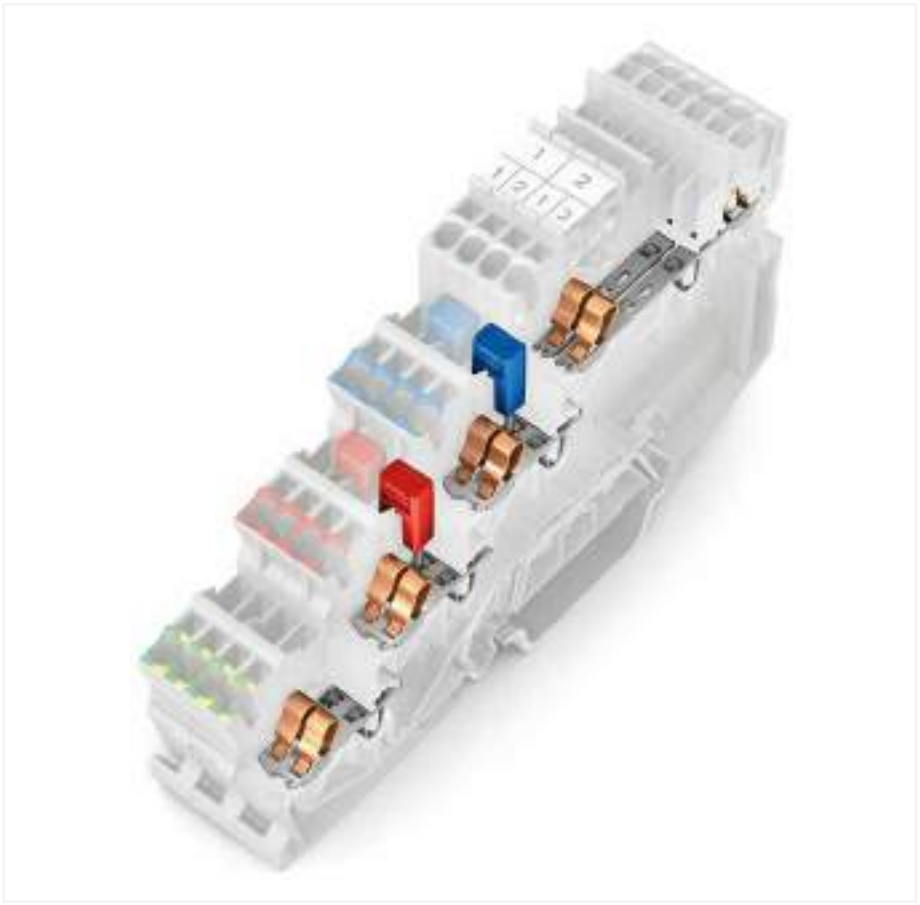
Commoning (potential level):
Continuous commoning in the potential levels via push-in type jumper bars for even pole numbers (2000 Series)



Potential levels: two adjacent commoning options on a current bar



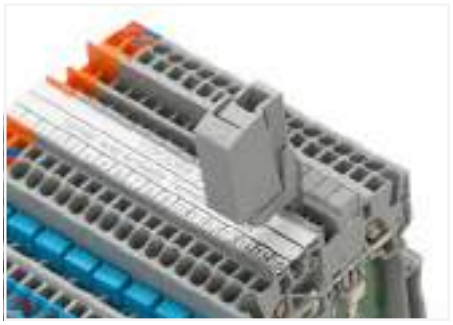
4-conductor sensor terminal block with ground contact



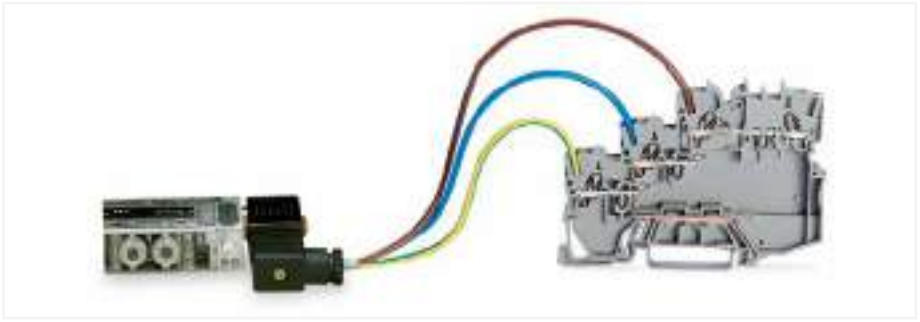
Upper level: two independent signal pathways, in 3.5 mm spacing per pole, with a dual jumper slot
Lower levels: two interconnected potential clamping units, with a single jumper slot, can be commoned in both directions



Ground commoning:
For sensor and actuator terminal blocks without ground connection to the DIN-rail, the ground connection can be performed by commoning to the terminal block with a ground foot.



Testing via testing tap (2009-182) (up to max. 42 V).



3-conductor actuator LED terminal block with a connected actuator

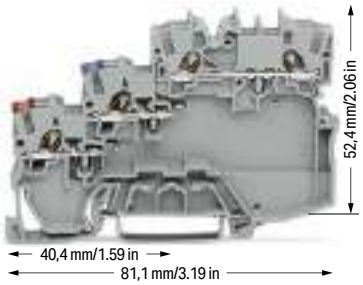


Testing via test plug adapter (2009-174) (up to max. 42 V).

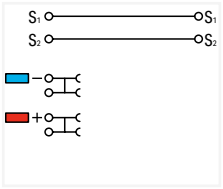
3-Conductor Sensor Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



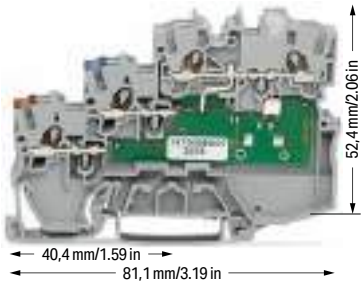
2000-5311



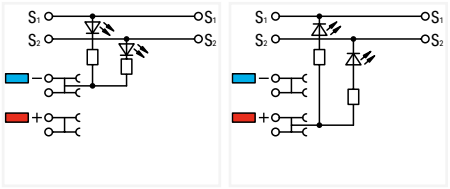
3-conductor sensor terminal block

Color	Item No.	Pack. Unit
gray	2000-5311	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5311/1102-950 2000-5311/1101-951



3-conductor sensor terminal block; yellow LED; for PNP (high-side) switching sensors

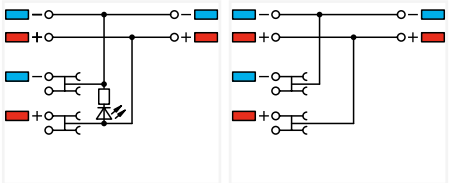
Color	Item No.	Pack. Unit
gray	2000-5311/1102-950	50

3-conductor sensor terminal block; yellow LED; for NPN (low-side) switching sensors

gray	2000-5311/1101-951	50



2000-5372/1102-953 2000-5372

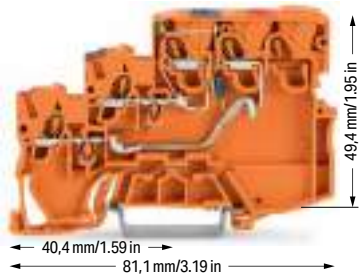


3-conductor sensor LED supply terminal block; green LED; 24 VDC

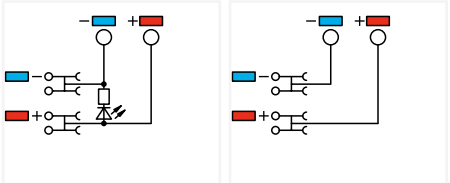
Color	Item No.	Pack. Unit
orange	2000-5372/1102-953	15

3-conductor sensor supply terminal block; max. 250 V

orange	2000-5372	15



2000-5352/1102-953 2000-5352



3-conductor sensor LED supply terminal block; green LED; 24 VDC control panel side: 2.5 (4) mm²; max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5352/1102-953	50

3-conductor sensor supply terminal block; max. 250 V; control panel side: 2.5 (4) mm²; max. 28 A

orange	2000-5352	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 182

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks



gray	2000-5391	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade



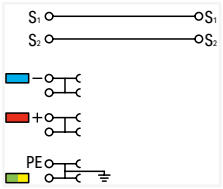
	210-719	1

4-Conductor Sensor Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5417



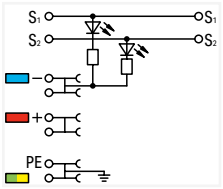
4-conductor sensor terminal block; with ground connection

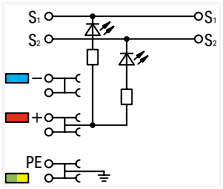
Color	Item No.	Pack. Unit
gray	2000-5417	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5417/1102-950 2000-5417/1101-951



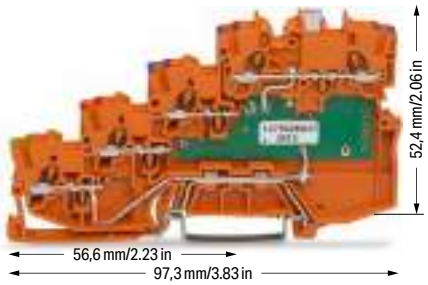


4-conductor sensor LED terminal block; yellow LED; for PNP (high-side) switching sensors; with ground connection

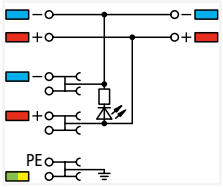
Color	Item No.	Pack. Unit
gray	2000-5417/1102-950	50

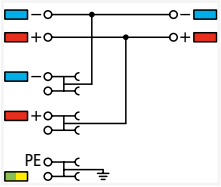
4-conductor sensor terminal block; yellow LED; for NPN (low-side) switching sensors; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5417/1101-951	50



2000-5477/1102-953 2000-5477



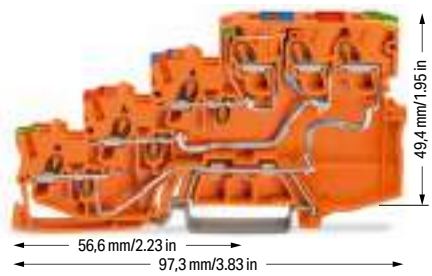


4-conductor sensor LED supply terminal block; green LED; 24 VDC; with ground connection

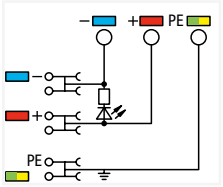
Color	Item No.	Pack. Unit
orange	2000-5477/1102-953	15

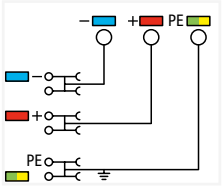
4-conductor sensor supply terminal block; max. 250 V; internally commoned; with ground connection

orange	2000-5477	15



2000-5457/1102-953 2000-5457





3-conductor sensor LED supply terminal block; green LED; 24 VDC control panel side: 2.5 (4) mm²; max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5457/1102-953	15

4-conductor sensor supply terminal block; max. 250 V; with ground connection; control panel side: 2.5 (4) mm²; max. 28 A

orange	2000-5457	15

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 174

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 4-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks



gray	2000-5491	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade

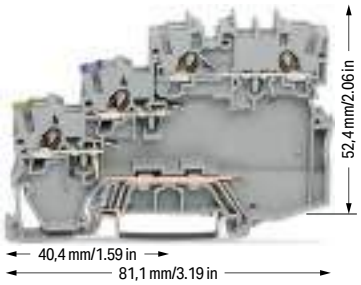


	210-719	1

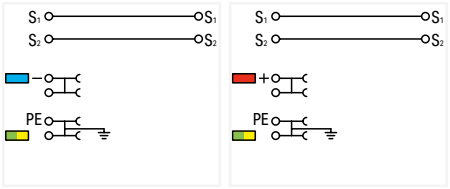
3-Conductor Actuator Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5317/102-000 2000-5317/101-000

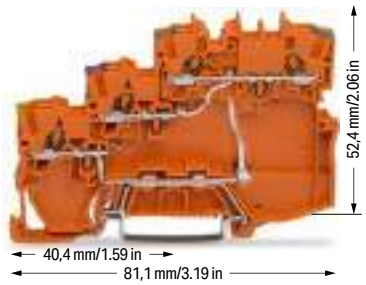


3-conductor actuator terminal block; for PNP (high-side) switching actuators; with ground connection

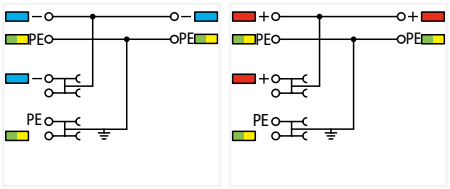
Color	Item No.	Pack. Unit
gray	2000-5317/102-000	50

3-conductor actuator terminal block; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/101-000	50



2000-5377/102-000 2000-5377/101-000



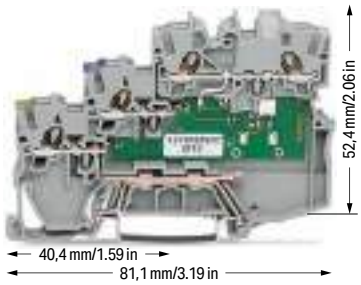
3-conductor actuator supply terminal block; max. 250 V; for PNP (high-side) switching actuators; with ground connection; internally commoned

Color	Item No.	Pack. Unit
orange	2000-5377/102-000	15

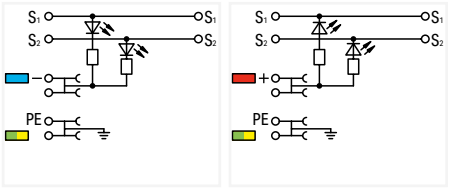
3-conductor actuator supply terminal block; max. 250 V; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
orange	2000-5377/101-000	15

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5317/1102-950 2000-5317/1101-951

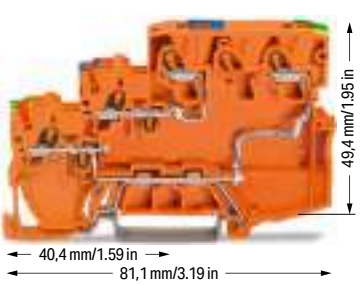


3-conductor actuator terminal block; yellow LED; for PNP (high-side) switching actuators; with ground connection

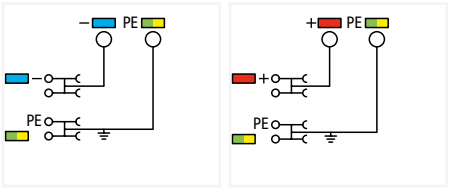
Color	Item No.	Pack. Unit
gray	2000-5317/1102-950	50

3-conductor actuator terminal block; yellow LED; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/1101-951	50



2000-5357/102-000 2000-5357/101-000



3-conductor actuator supply terminal block; max. 250 V; control panel side: 2.5 (4) mm²; max. 28 A; for PNP (high-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
orange	2000-5357/102-000	15

3-conductor actuator supply terminal block; max. 250 V; control panel side: 2.5 (4) mm²; max. 28 A; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
orange	2000-5357/101-000	15

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 182

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks



gray	2000-5391	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade



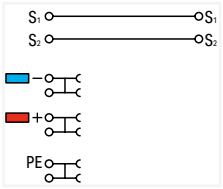
	210-719	1

4-Conductor Sensor Terminal Block and 3-Conductor Actuator Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



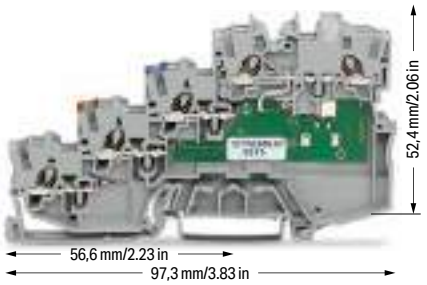
2000-5410



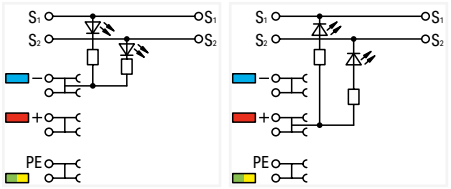
4-conductor sensor terminal block; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5410	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5410/1102-950 2000-5410/1101-951

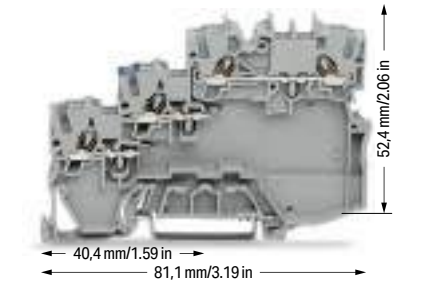


4-conductor sensor LED terminal block; yellow LED; for PNP (high-side) switching sensors; with ground via push-in type jumper bar

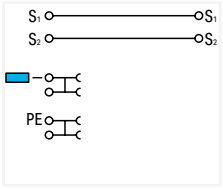
Color	Item No.	Pack. Unit
gray	2000-5410/1102-950	50

4-conductor sensor LED terminal block; yellow LED; for NPN (low-side) switching sensors; with ground via push-in type jumper bar

gray	2000-5410/1101-951	50



2000-5310/102-000 2000-5310/101-000

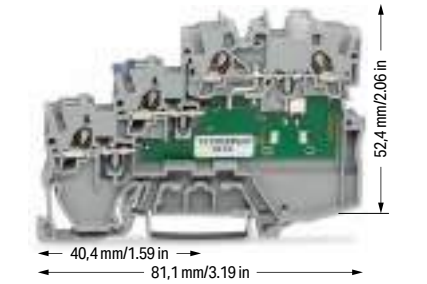


3-conductor actuator terminal block; for PNP (high-side) switching actuators; with ground via push-in type jumper bar

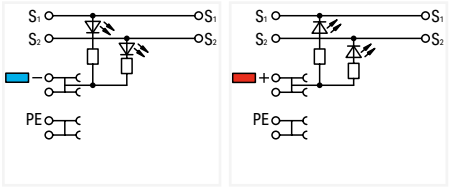
Color	Item No.	Pack. Unit
gray	2000-5310/102-000	50

3-conductor actuator terminal block; for NPN (low-side) switching actuators; with ground via push-in type jumper bar

gray	2000-5310/101-000	50



2000-5310/1102-950 2000-5310/1101-951



3-conductor actuator terminal block; yellow LED; for PNP (high-side) switching actuators; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/1102-950	50

3-conductor actuator terminal block; yellow LED; for NPN (low-side) switching actuators; with ground via push-in type jumper bar

gray	2000-5310/1101-951	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 182

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 4-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks



gray	2000-5491	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	…/000-005
blue	…/000-006
yellow-green	…/000-018

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade



	210-719	1

PUSH-IN CAGE CLAMP®

Sensor Terminal Blocks and Actuator Terminal Blocks TOPJOB® S; with Pluggable Signal Level 2020 Series

Description and Installation



Snap individual terminal blocks onto the DIN-rail and slide together.



Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.



Labeling terminal blocks via marking strips (2009-110) or 3.5 mm wide WMB markers (793-35xx) – from the top or the side.



Removing a female plug via conductor bundle provided with strain relief plate.



Slide the locking lever into position.





Testing via testing tap (2009-182) or test plug adapter (2009-174) (up to max. 42 V).



Insert coding pin into the corresponding slot and twist it off.

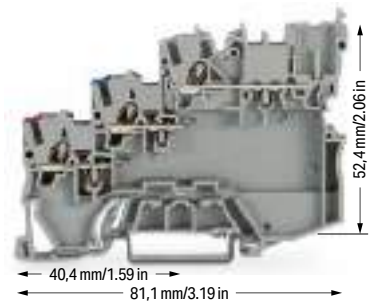


Remove the coding finger using a cutting tool.

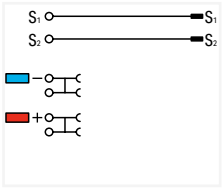
PUSH-IN CAGE CLAMP®

3-Conductor Sensor Terminal Block TOPJOB® S; with Pluggable Signal Level
1 (1.5) mm²; 2020 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



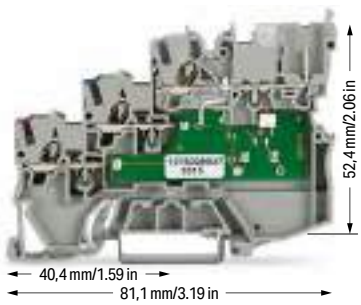
2020-5311



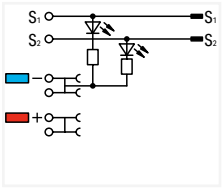
3-conductor sensor terminal block; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5311	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2020-5311/1102-950



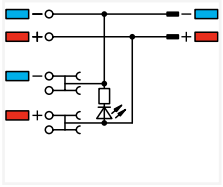
3-conductor sensor terminal block; yellow LED; for PNP (high-side) switching sensors; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5311/1102-950	50

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

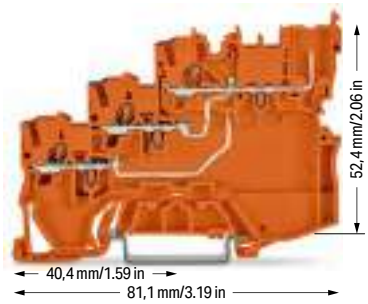


2020-5372/1102-953

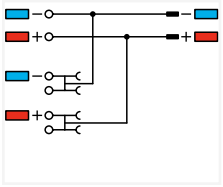


3-conductor sensor LED supply terminal block; green LED; 24 VDC; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5372/1102-953	15



2020-5372



3-conductor sensor supply terminal block; max. 250 V; internally commoned; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5372	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 182

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks



gray	2020-5391	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

1-conductor female plug



gray	2020-102	100

2-conductor female plug



gray	2020-202	100

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

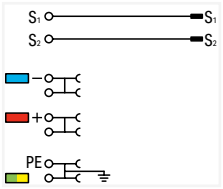
4-Conductor Sensor Terminal Block TOPJOB® S; with Pluggable Signal Level
1 (1.5) mm²; 2020 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



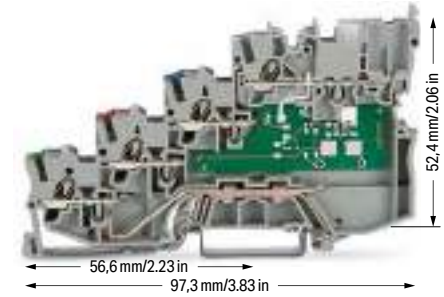
2020-5417



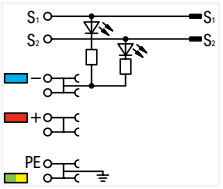
4-conductor sensor terminal block; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5417	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2020-5417/1102-950



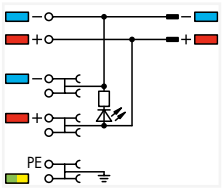
4-conductor sensor terminal block; yellow LED; for PNP (high-side) switching sensors; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5417/1102-950	50

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.



2020-5477/1102-953

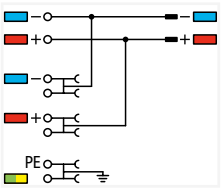


4-conductor sensor LED supply terminal block; green LED; 24 VDC; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5477/1102-953	15



2020-5477



4-conductor sensor supply terminal block; max. 250 V; internally commoned; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5477	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 182

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 4-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks



gray	2020-5491	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

1-conductor female plug



gray	2020-102	100

2-conductor female plug



gray	2020-202	100

Test plug adapter; for 4 mm Ø test plug

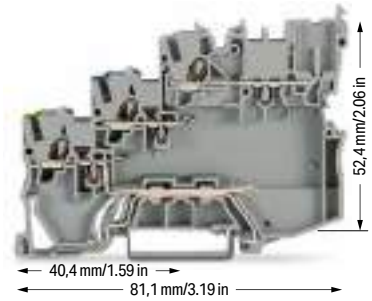


gray	2009-174	100 (25)

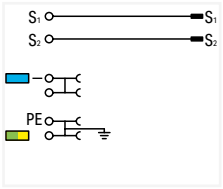
PUSH-IN CAGE CLAMP®

3-Conductor Actuator Terminal Block TOPJOB® S; with Pluggable Signal Level
1 (1.5) mm²; 2020 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V / 4 kV / 3 ❷	300 V, 15 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



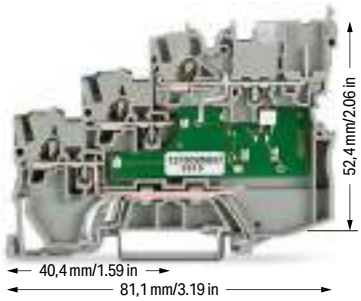
2020-5317/102-000



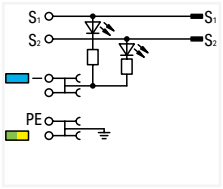
3-conductor actuator terminal block; for PNP (high-side) switching actuators; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5317/102-000	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 V, 15 A
I_N 13.5 A	24 V, 10 A
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



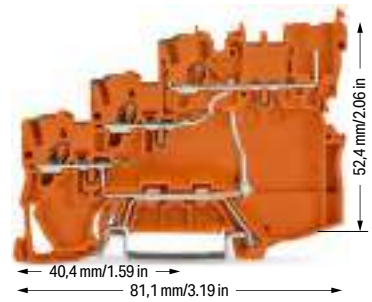
2020-5317/1102-950



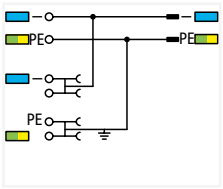
3-conductor actuator terminal block; yellow LED; for PNP (high-side) switching actuators; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5317/1102-950	50

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.



2020-5377/102-000



3-conductor actuator supply terminal block; for PNP (high-side) switching actuators; with ground connection; internally commoned; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5377/102-000	15

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 182

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks



gray	2020-5391	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

1-conductor female plug



gray	2020-102	100

2-conductor female plug



gray	2020-202	100

Test plug adapter; for 4 mm Ø test plug

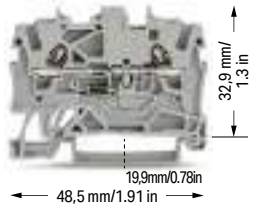


gray	2009-174	100 (25)

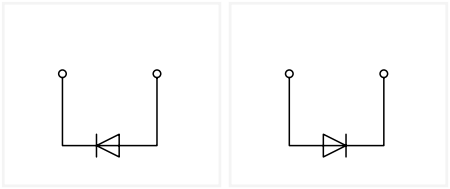
Diode Terminal Block, LED Terminal Block TOPJOB® S
1.5 (2.5) mm²; 2001 Series

1

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2001-1211/1000-411 2001-1211/1000-410

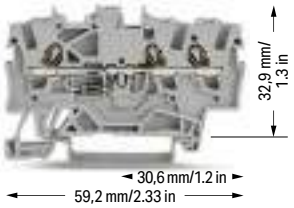


2-conductor diode terminal block; with 1N4007 diode

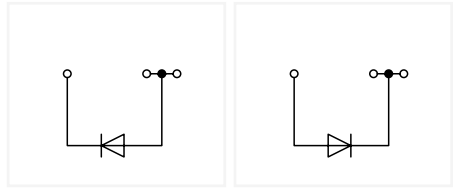
	Item No.	Pack. Unit
◯ anode right	2001-1211/1000-411	100
◯ anode left	2001-1211/1000-410	100

Other terminal blocks with the same profile:		
Through	2001-1201	Page 54

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2001-1311/1000-411 2001-1311/1000-410



3-conductor diode terminal block; with 1N4007 diode

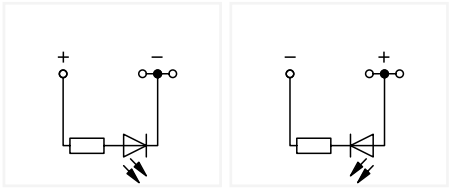
	Item No.	Pack. Unit
◯ anode right	2001-1311/1000-411	100
◯ anode left	2001-1311/1000-410	100

Other terminal blocks with the same profile:		
Through	2001-1301	Page 54

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



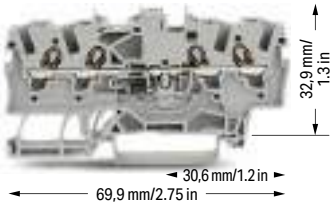
2001-1321/1000-434 2001-1321/1000-413



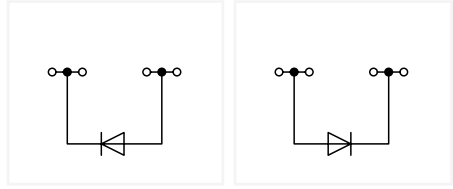
3-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

	Item No.	Pack. Unit
◯ anode left	2001-1321/1000-434	100
◯ anode right	2001-1321/1000-413	100

Other terminal blocks with the same profile:		
Through	2001-1301	Page 54



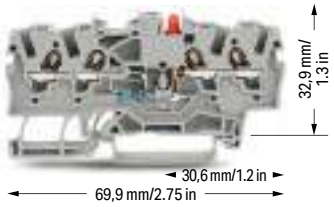
2001-1411/1000-411 2001-1411/1000-410



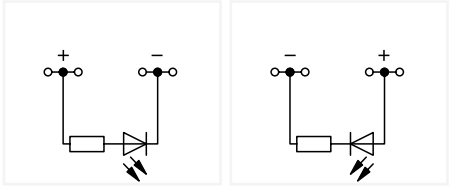
4-conductor diode terminal block; with 1N4007 diode

	Item No.	Pack. Unit
◯ anode right	2001-1411/1000-411	100
◯ anode left	2001-1411/1000-410	100

Other terminal blocks with the same profile:		
Through	2001-1401	Page 54



2001-1421/1000-434 2001-1421/1000-413



4-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

	Item No.	Pack. Unit
◯ anode left	2001-1421/1000-434	100
◯ anode right	2001-1421/1000-413	100

Other terminal blocks with the same profile:		
Through	2001-1401	Page 54

Diode Terminal Blocks and LED Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.25 … 2.5 mm² “s+f-st”; Push-in termination: 0.75 … 2.5 mm² “s” and 0.75 … 1.5 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

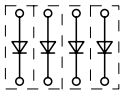
Accessories; 2001 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	**2001-171**	200 (25)

Push-in type jumper bar; insulated; I_N 17.5 A; light gray			
	2-way	**2001-402**	25
	3-way	**2001-403**	25
	4-way	**2001-404**	25
	5-way	**2001-405**	25
	6-way	**2001-406**	25
	7-way	**2001-407**	25
	8-way	**2001-408**	25
	9-way	**2001-409**	25
	10-way	**2001-410**	25

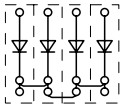
Push-in type jumper bar; insulated; I_N 17.5 A; light gray			
	1 to 3	**2001-433**	25
	1 to 4	**2001-434**	25
	1 to 5	**2001-435**	25
	1 to 6	**2001-436**	25
	1 to 7	**2001-437**	25
	1 to 8	**2001-438**	25
	1 to 9	**2001-439**	25
	1 to 10	**2001-440**	25



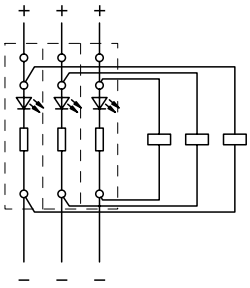
Open diode gates can be created using the following terminal blocks:
2001-1211/1000-410 or 2001-1211/1000-411



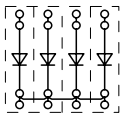
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



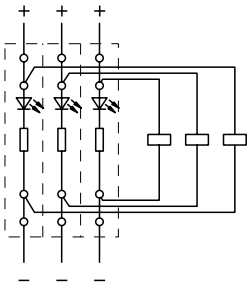
Polarized diode gates with a common cathode can be created using the following terminal blocks:
2001-1311/1000-410 or 2001-1311/1000-411



Circuit-related voltage indications can be created using the following terminal blocks:
2001-1321/1000-434 or 2001-1321/1000-413



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2001-1411/1000-410 or 2001-1411/1000-411

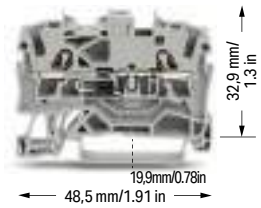


Circuit-related voltage indications can be created using the following terminal blocks:
2001-1421/1000-434 or 2001-1421/1000-413

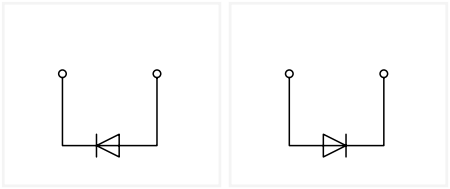
Diode Terminal Block, LED Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1211/1000-411 2002-1211/1000-410

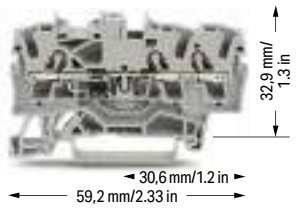


2-conductor diode terminal block; with 1N4007 diode

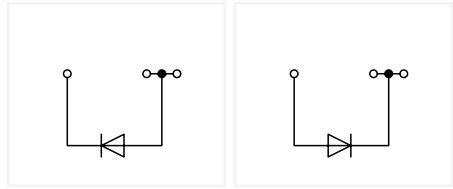
	Item No.	Pack. Unit
◯ anode right	2002-1211/1000-411	100
◯ anode left	2002-1211/1000-410	100

Other terminal blocks with the same profile:		
Through	2002-1201	Page 56

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1311/1000-411 2002-1311/1000-410



3-conductor diode terminal block; with 1N4007 diode

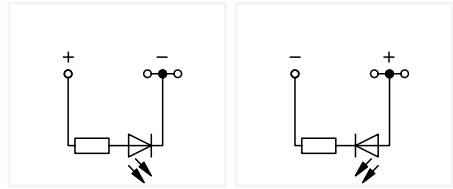
	Item No.	Pack. Unit
◯ anode right	2002-1311/1000-411	100
◯ anode left	2002-1311/1000-410	100

Other terminal blocks with the same profile:		
Through	2002-1301	Page 56

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



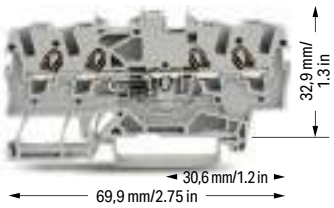
2002-1321/1000-434 2002-1321/1000-413



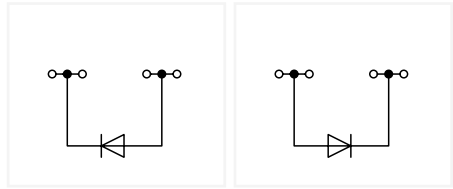
3-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

	Item No.	Pack. Unit
◯ anode left	2002-1321/1000-434	100
◯ anode right	2002-1321/1000-413	100

Other terminal blocks with the same profile:		
Through	2002-1301	Page 56



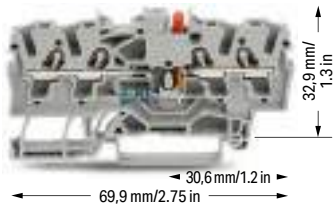
2002-1411/1000-411 2002-1411/1000-410



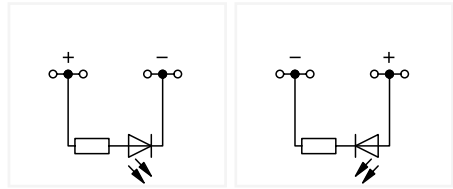
4-conductor diode terminal block; with 1N4007 diode

	Item No.	Pack. Unit
◯ anode right	2002-1411/1000-411	100
◯ anode left	2002-1411/1000-410	100

Other terminal blocks with the same profile:		
Through	2002-1401	Page 58



2002-1421/1000-434 2002-1421/1000-413



4-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

	Item No.	Pack. Unit
◯ anode left	2002-1421/1000-434	100
◯ anode right	2002-1421/1000-413	100

Other terminal blocks with the same profile:		
Through	2002-1401	Page 58

PUSH-IN CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

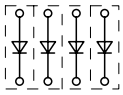
Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	**2002-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	**2002-172**	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray			
	2-way	**2002-402**	25
	3-way	**2002-403**	25
	4-way	**2002-404**	25
	5-way	**2002-405**	25
	6-way	**2002-406**	25
	7-way	**2002-407**	25
	8-way	**2002-408**	25
	9-way	**2002-409**	25
	10-way	**2002-410**	25

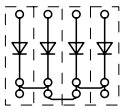
Push-in type jumper bar; insulated; I_N 25 A; light gray			
	1 to 3	**2002-433**	25
	1 to 4	**2002-434**	25
	1 to 5	**2002-435**	25
	1 to 6	**2002-436**	25
	1 to 7	**2002-437**	25
	1 to 8	**2002-438**	25
	1 to 9	**2002-439**	25
	1 to 10	**2002-440**	25



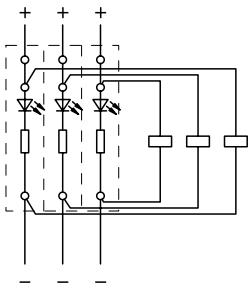
Open diode gates can be created using the following terminal blocks:
2002-1211/1000-410 or 2002-1211/1000-411



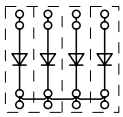
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.



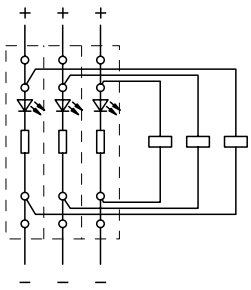
Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-1311/1000-410 or 2002-1311/1000-411



Circuit-related voltage indications can be created using the following terminal blocks:
2002-1321/1000-434 or 2002-1321/1000-413



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-1411/1000-410 or 2002-1411/1000-411

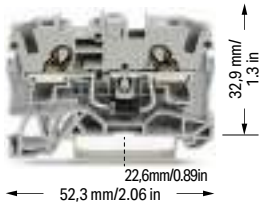


Circuit-related voltage indications can be created using the following terminal blocks:
2002-1421/1000-434 or 2002-1421/1000-413

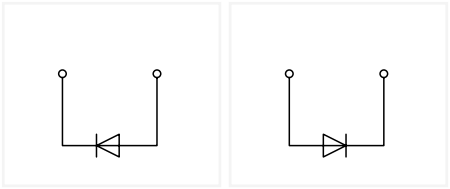
Diode Terminal Block TOPJOB® S
4 (6) mm²; 2004 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
U_N 250 V; U_{RM} 1000 V	
1N5408 - 1.5 A continuous current	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2004-1211/1000-401 2004-1211/1000-400



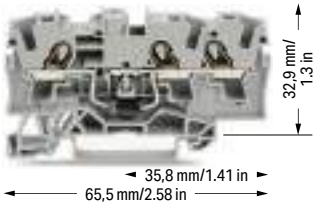
2-conductor diode terminal block; with 1N5408 diode

	Item No.	Pack. Unit
anode right	2004-1211/1000-401	50
anode left	2004-1211/1000-400	50

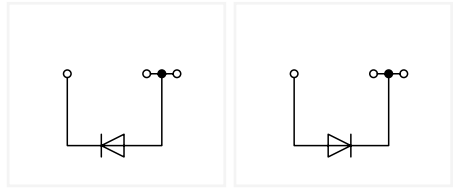
Other terminal blocks with the same profile:

Through	2004-1201	Page 60

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
U_N 250 V; U_{RM} 1000 V	
1N5408 - 1.5 A continuous current	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2004-1311/1000-401 2004-1311/1000-400



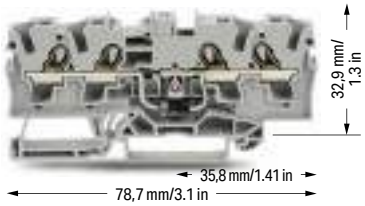
3-conductor diode terminal block; with 1N5408 diode

	Item No.	Pack. Unit
anode right	2004-1311/1000-401	50
anode left	2004-1311/1000-400	50

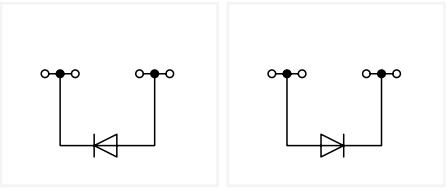
Other terminal blocks with the same profile:

Through	2004-1301	Page 60

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
U_N 250 V; U_{RM} 1000 V	
1N5408 - 1.5 A continuous current	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2004-1411/1000-401 2004-1411/1000-400



4-conductor diode terminal block; with 1N5408 diode

	Item No.	Pack. Unit
anode right	2004-1411/1000-401	50
anode left	2004-1411/1000-400	50

Other terminal blocks with the same profile:

Through	2004-1401	Page 60

PUSH-IN CAGE CLAMP®

Diode Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2004 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	**2004-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	**2004-172**	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	**2004-402**	25
3-way	**2004-403**	25
4-way	**2004-404**	25
5-way	**2004-405**	25
6-way	**2004-406**	25
7-way	**2004-407**	25
8-way	**2004-408**	25
9-way	**2004-409**	25
10-way	**2004-410**	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	**2004-433**	25
1 to 4	**2004-434**	25
1 to 5	**2004-435**	25
1 to 6	**2004-436**	25
1 to 7	**2004-437**	25
1 to 8	**2004-438**	25
1 to 9	**2004-439**	25
1 to 10	**2004-440**	25

Wire commoning chain; 50 connections; insulated; I_N 8 A

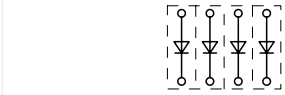


black	**210-103**	5

Wire commoning chain; 50 connections; insulated; I_N 8 A



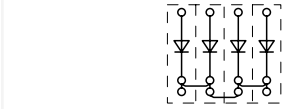
blue	**210-123**	5



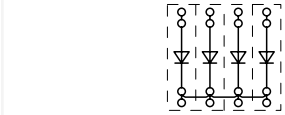
Open diode gates can be created using the following terminal blocks:
2004-1211/1000-400 or 2004-1211/1000-401



These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2004-1311/1000-400 or 2004-1311/1000-401



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2004-1411/1000-400 or 2004-1411/1000-401

PUSH-IN CAGE CLAMP®

Pluggable Diode Module TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2002 Series

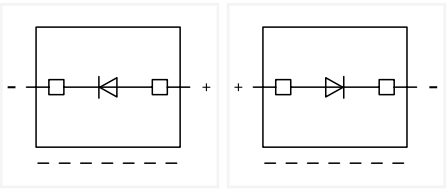
1

Technical Data

U_N 250 V; U_{RM} 1000 V
I_N 0.5 A
Plug width: 5.2 mm / 0.205 inch



2002-800/1000-411 2002-800/1000-410



Diode module; with 1N4007 diode; max. operating temperature: 85°C; 5.2 mm wide

	Item No.	Pack. Unit
anode right	2002-800/1000-411	100
anode left	2002-800/1000-410	100

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1661	50

2-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1661	50

End and intermediate plate; 1 mm thick



orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1761	50

3-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1761	50

End and intermediate plate; 1 mm thick



orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

4-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1861	50

4-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1861	50

End and intermediate plate; 1 mm thick



orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1961	50

2-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1961	50

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

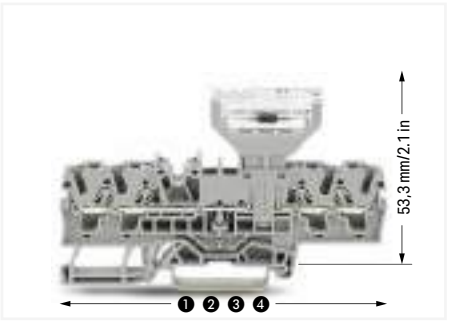


2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



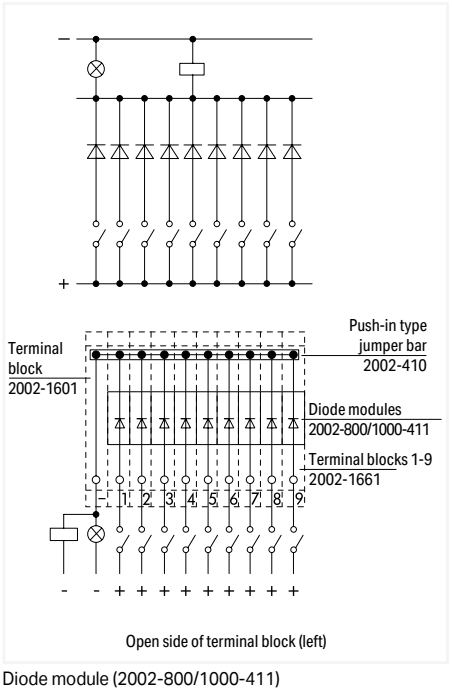
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25



Lengths of carrier terminal blocks with a pluggable diode module:
1. 66.1 mm / 2.62 inch for 2002-1661
2. 76.8 mm / 3.02 inch for 2002-1761
3. 87.5 mm / 3.45 inch for 2002-1861
4. 72.9 mm / 2.87 inch for 2002-1961



These diode modules are ideal for custom diode circuits (e.g., lamp test and collective fault signal circuits) and offer the following advantages:
- Separation into functional and wiring levels
- Polarized switching direction
- Quick and easy module replacement
- Terminal blocks/modules provide high-density wiring in a width of just 5.2 mm



Diode module (2002-800/1000-411)
Diode gate for collective fault indication

PUSH-IN CAGE CLAMP®

Pluggable Diode Module, Empty Component Plug Housing TOPJOB® S on Through Terminal Block 2.5 (4) mm²

2002 Series

Technical Data

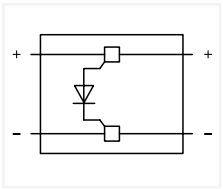
U_N 250 V; U_{RM} 1000 V

I_N 0.5 A

Plug width: 10.4 mm / 0.409 inch



2002-880/1000-411



Diode module; with 1N4007 recovery diode; max. operating temperature: 85°C; 10.4 mm wide

Color	Item No.	Pack. Unit
gray	2002-880/1000-411	50

Empty component plug housing; type 4; 10.4 mm wide

gray	2002-880	50

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1201	100

2-conductor through terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1201	100

End and intermediate plate; 0.8 mm thick



orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

3-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1301	100

3-conductor through terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1301	100

End and intermediate plate; 0.8 mm thick



orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

4-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1401	100

4-conductor through terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1401	100

End and intermediate plate; 0.8 mm thick



orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

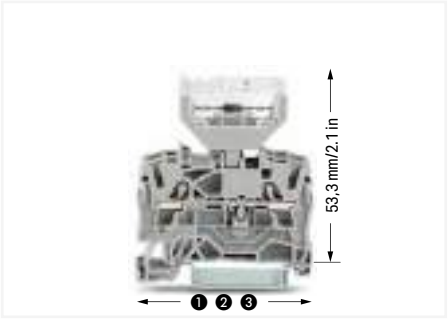


2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25



Lengths of through terminal blocks with a pluggable diode module:

1. 48.5 mm / 1.91 inch for 2002-1201
2. 59.2 mm / 2.33 inch for 2002-1301
3. 69.9 mm / 2.75 inch for 2002-1401



Similar to push-in type jumpers, these diode modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:

- Compatible with all 2001 to 2006 Series Through Terminal Blocks equipped with jumper slots (note the module's width)
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units
- solder-free assembly of diodes, resistors, etc.



Opening the cover via operating tool (2.5 mm blade).

PUSH-IN CAGE CLAMP®

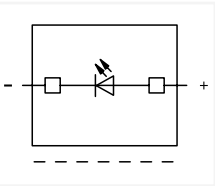
Pluggable LED Module TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2002 Series

1

Technical Data

U_N 250 V; U_{RM} 1000 V
I_N ≤ 3 mA
Plug width: 5.2 mm / 0.205 inch





LED module; with red LED; max. operating temperature: 85°C; 5.2 mm wide

	Item No.	Pack. Unit
◯ 12 … 30 V	2002-800/1000-541	100
◯ 30 … 65 V	2002-800/1000-542	100
◯ 230 V	2002-800/1000-836	100

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1661	50

2-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1661	50

End and intermediate plate; 1 mm thick



orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1761	50

3-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1761	50

End and intermediate plate; 1 mm thick



orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

4-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1861	50

4-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1861	50

End and intermediate plate; 1 mm thick



orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1961	50

2-conductor carrier terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1961	50

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



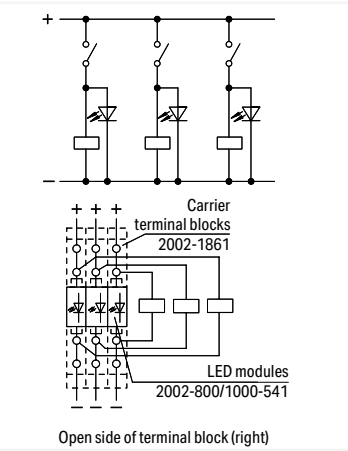
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25



Lengths of carrier terminal blocks with a pluggable LED module:
❶ 66.1 mm / 2.62 inch for 2002-1661
❷ 76.8 mm / 3.02 inch for 2002-1761
❸ 87.5 mm / 3.45 inch for 2002-1861
❹ 72.9 mm / 2.87 inch for 2002-1961



The monitoring of control and operating current circuits with LED modules on rail-mount terminal blocks provides several advantages:
- No additional cost for assembly and wiring
- Separation into functional and wiring levels
- Modules can be replaced quickly by other types of modules
- Polarized switching direction
- Terminal blocks/modules provide high-density wiring in a width of just 5.2 mm



LED module (2002-800/1000-541)
Voltage control assigned to current circuits

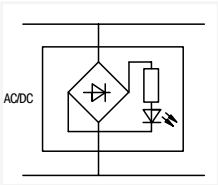
Pluggable LED Module TOPJOB® S on Through Terminal Block 2.5 (4) mm²
2002 Series

Technical Data

$I_N \leq 3$ mA

Plug width: 10.4 mm / 0.409 inch





LED module; with red LED; max. operating temperature: 85°C; 10.4 mm wide

	Item No.	Pack. Unit
◯ 12 … 30 V	2002-880/1000-541	50
◯ 30 … 65 V	2002-880/1000-542	50
◯ 230 V	2002-880/1000-836	50

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1201 100

2-conductor through terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1201 100

End and intermediate plate; 0.8 mm thick



orange 2002-1292 100 (25)
gray 2002-1291 100 (25)

3-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1301 100

3-conductor through terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1301 100

End and intermediate plate; 0.8 mm thick



orange 2002-1392 100 (25)
gray 2002-1391 100 (25)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

4-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1401 100

4-conductor through terminal block; with push-button
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1401 100

End and intermediate plate; 0.8 mm thick



orange 2002-1492 100 (25)
gray 2002-1491 100 (25)



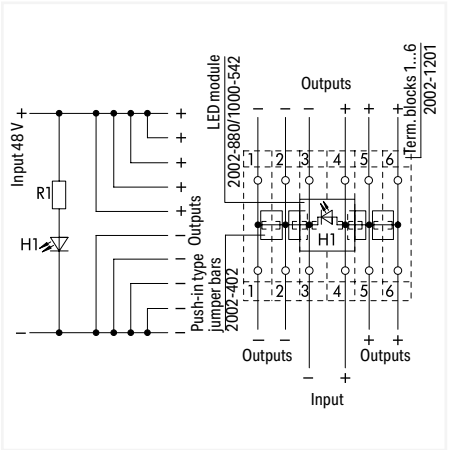
Dimensions of through terminal blocks with a pluggable LED module:
❶ 48.5 mm / 1.91 inch for 2002-1201
❷ 59.2 mm / 2.33 inch for 2002-1301
❸ 69.9 mm / 2.75 inch for 2002-1401



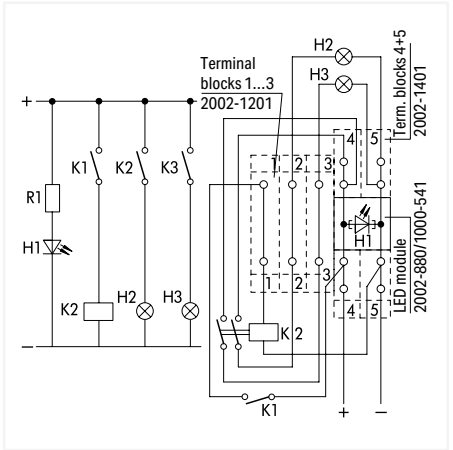
Testing via 2-pole test plugs.



Labeling via WMB Multi markers and marking strips



LED module (2002-880/1000-541)
Multiple outputs with indicator lamp



LED module (2002-880/1000-541)
Control unit

Empty Component Plug Housing TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2002 Series

Technical Data
Plug width: 5.2 mm / 0.205 inch



Empty component plug housing; type 1; 2-pole; 5.2 mm wide

Color	Item No.	Pack. Unit
gray	2002-800	100

Technical Data
Plug width: 10.4 mm / 0.409 inch



Empty component plug housing; type 2; 2-pole; 10.4 mm wide

Color	Item No.	Pack. Unit
gray	2002-810	50

Empty component plug housing; type 3; 4-pole; 10.4 mm wide

Color	Item No.	Pack. Unit
gray	2002-820	50

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1661 50

2-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1661 50

End and intermediate plate; 1 mm thick



orange 2002-1692 100 (25)
gray 2002-1691 100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1761 50

3-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1761 50

End and intermediate plate; 1 mm thick



orange 2002-1792 100 (25)
gray 2002-1791 100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 2002-115 100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm 2009-412 100 (10)
L = 110 mm 2009-414 100 (10)
L = 250 mm 2009-416 100 (10)

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1861 50

4-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1861 50

End and intermediate plate; 1 mm thick



orange 2002-1892 100 (25)
gray 2002-1891 100 (25)

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1961 50

2-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray 2202-1961 50

End and intermediate plate; 1 mm thick



orange 2002-1992 100 (25)
gray 2002-1991 100 (25)

Multi-purpose operating tool; for component plugs

2002-116 5

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/Marking strips

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



L/L 2002-2961 50

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



L/N 2002-2963 50

End and intermediate plate; 1 mm thick



orange 2002-2992 100 (25)
gray 2002-2991 100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way 2002-402 25
3-way 2002-403 25
4-way 2002-404 25
5-way 2002-405 25
6-way 2002-406 25
7-way 2002-407 25
8-way 2002-408 25
9-way 2002-409 25
10-way 2002-410 25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3 2002-433 25
1 to 4 2002-434 25
1 to 5 2002-435 25
1 to 6 2002-436 25
1 to 7 2002-437 25
1 to 8 2002-438 25
1 to 9 2002-439 25
1 to 10 2002-440 25

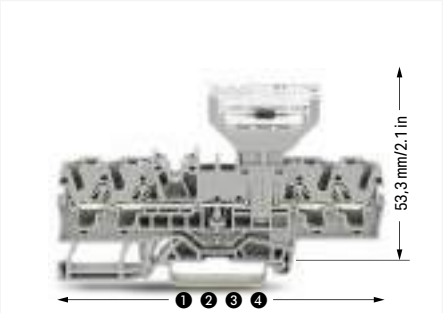
Staggered jumper; insulated; I_N 25 A; light gray



2-way 2002-472 25
3-way 2002-473 25
4-way 2002-474 25
5-way 2002-475 25
6-way 2002-476 25
7-way 2002-477 25
8-way 2002-478 25
9-way 2002-479 25
10-way 2002-480 25
11-way 2002-481 25
12-way 2002-482 25

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5



Lengths of carrier terminal blocks with a pluggable diode module:
1 66.1 mm / 2.62 inch for 2002-1661
2 76.8 mm / 3.02 inch for 2002-1761
3 87.5 mm / 3.45 inch for 2002-1861
4 72.9 mm / 2.87 inch for 2002-1961



Cutting component to the proper length.



Pressing component into plug contact via operating tool.



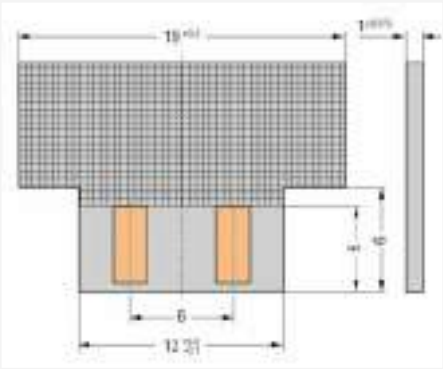
Pushing PCB into plug contact via operating tool.



*max. 3.4 mm Ø at 5.2 mm module width and
*max. 5.4 mm Ø at 10.4 mm module width
Notice: Reconnection only possible with similar or larger wire diameter.



Component plugs for building custom circuits solder-free assembly of diodes, resistors, etc. (Illustration shows a 1N4007 diode)



Dimensions of self-assembled PCBs:
Module height: 2 mm at 5.2 mm module width and module height: 3.3 mm at 10.4 mm module width



When closing the cover, please insert cover as shown in the illustration.



Opening the cover via operating tool (2.5 mm blade).



Opening the cover via multi-purpose operating tool for component plugs.

Component Plug TOPJOB® S on Carrier Terminal Blocks 2.5 (4) mm²
2042 Series

1





Length for 2002-1661 – 66.5 mm / 2.62 inch
2-conductor carrier terminal block

Length for 2002-1761 – 76.8 mm / 3.02 inch
3-conductor carrier terminal block

Length for 2002-1861 – 87.5 mm / 3.45 inch
4-conductor carrier terminal block

Length for 2002-1961 – 72.9 mm / 2.87 inch
2-conductor carrier terminal block; with additional jumper slot

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Component plug; 4-pole; transparent housing; with fiber optics; 10.3 mm wide

Item No.	Pack. Unit
2042-321	5

Component plug; 6-pole; transparent housing; with fiber optics; 15.5 mm wide

Item No.	Pack. Unit
2042-331	5

Component plug; 8-pole; transparent housing; with fiber optics; 20.7 mm wide

2042-341	5	

Component plug; 10-pole; transparent housing; with fiber optics; 25.9 mm wide

2042-351	5	

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1661	50

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1861	50

2-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1661	50

4-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1861	50

End and intermediate plate; 1 mm thick



orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

End and intermediate plate; 1 mm thick



orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1761	50

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2002-1961	50

3-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1761	50

2-conductor carrier terminal block; with push-button 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



gray	2202-1961	50

End and intermediate plate; 1 mm thick



orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

End and intermediate plate; 1 mm thick



orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/Marking strips

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



L/L	2002-2961	50

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch



L/N	2002-2963	50

End and intermediate plate; 1 mm thick



orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

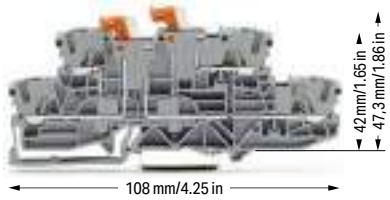


2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Double-Deck Disconnect/Test Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



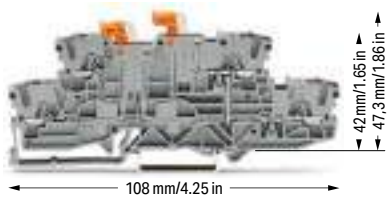
Double-deck, double-disconnect terminal block; with 2 pivoting knife disconnects; gray

	Item No.	Pack. Unit
L/L	2002-2951 ❹	50
N/L	2002-2952 ❹	50

Double-deck, double-disconnect terminal block; with 2 pivoting knife disconnects; blue

	Item No.	Pack. Unit
N/N	2002-2954 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



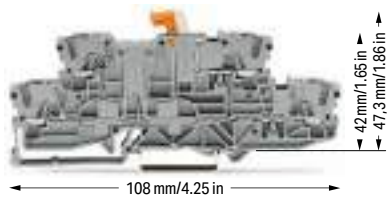
Double-deck, double-disconnect terminal block; with two pivoting knife disconnects; lower and upper decks internally commoned on right side, violet conductor entry; gray

	Item No.	Pack. Unit
L/L	2002-2958 ❹	50

Double-deck, double-disconnect terminal block; with two pivoting knife disconnects; lower and upper decks internally commoned on right side, violet conductor entry; blue

	Item No.	Pack. Unit
N/N	2002-2959 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck disconnect terminal block; with pivoting knife disconnect; same profile as double-deck, double-disconnect terminal block; gray

	Item No.	Pack. Unit
L/L	2002-2971 ❹	50
N/L	2002-2972 ❹	50

Double-deck disconnect terminal block; with pivoting knife disconnect; same profile as double-deck, double-disconnect terminal block; blue

	Item No.	Pack. Unit
N/N	2002-2974 ❸ ❹	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 14 A
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white — **2009-110** — 1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white — **2009-115** — 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain — **793-5501** — 5



Double-deck, double-disconnect terminal blocks (2002-2951) with group marker carrier accommodated in jumper contact slot



Double-deck, double-disconnect terminal block (2002-2951) with group marker carrier (2002-160) accommodated in jumper contact slot



Testing with voltage tester.



Double-deck, double-disconnect terminal block (2002-2951) with group marker carrier (2002-160) accommodated in a jumper contact slot and test plug (210-136)

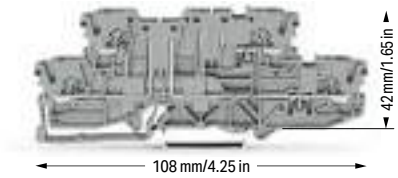


Double-deck disconnect terminal block (2002-2971)
Opening a knife disconnect.

Double-Deck Carrier Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

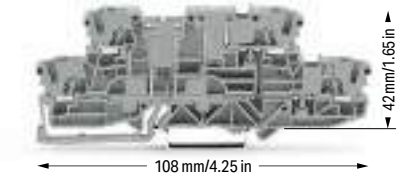
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck carrier terminal block; gray

	Bestellnr.	VPE
L/L	2002-2941 ❸	50

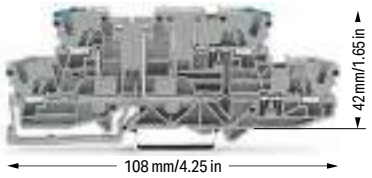
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck carrier terminal block; gray

	Bestellnr.	VPE
L/L	2002-2961 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck carrier terminal block; gray

	Bestellnr.	VPE
L/N	2002-2963 ❸	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block



orange	2002-401	100 (25)

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 14 A

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Carrier terminal block (2002-2941) with disconnect plug (2002-401) in parked position

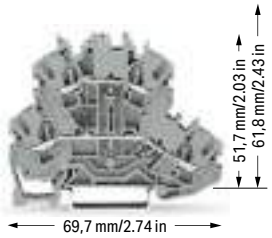


Carrier terminal block (2002-2941) with disconnect plug (2002-401) in operating position

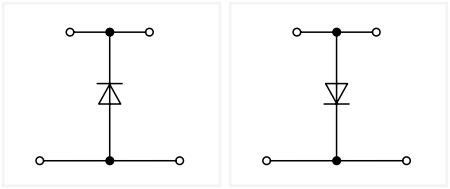
Double-Deck Diode Terminal Block and LED Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



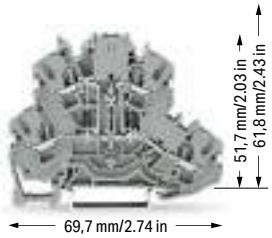
2002-2211/1000-410 2002-2211/1000-411



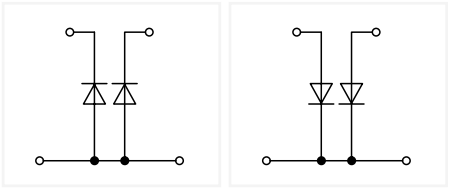
Double-deck diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
anode bottom	2002-2211/1000-410	50
anode top	2002-2211/1000-411	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



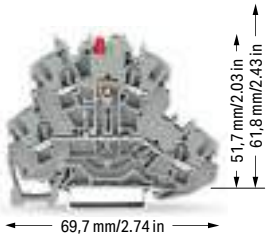
2002-2213/1000-487 2002-2213/1000-488



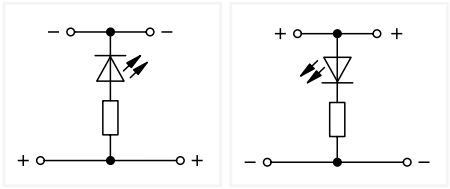
Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
anodes bottom	2002-2213/1000-487	50
anodes top	2002-2213/1000-488	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-2221/1000-434 2002-2221/1000-413

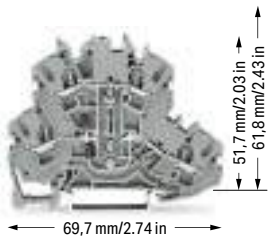


Double-deck LED terminal block; with red LED; gray

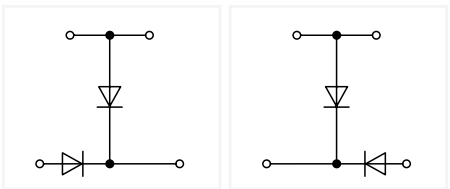
	Item No.	Pack. Unit
anode bottom	2002-2221/1000-434	50
anode top	2002-2221/1000-413	50

Other terminal blocks with the same profile:

Through	2002-2201	Page 76

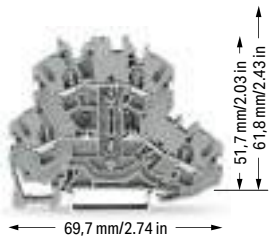


2002-2214/1000-492 2002-2214/1000-491

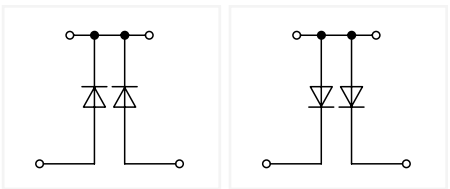


Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
anode top, anode left	2002-2214/1000-492	50
anode top, anode right	2002-2214/1000-491	50



2002-2214/1000-489 2002-2214/1000-490



Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
anodes bottom	2002-2214/1000-489	50
anodes top	2002-2214/1000-490	50

PUSH-IN CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	**2002-2292**	100 (25)
gray	**2002-2291**	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	**2002-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	**2002-172**	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	**2002-402**	25
3-way	**2002-403**	25
4-way	**2002-404**	25
5-way	**2002-405**	25
6-way	**2002-406**	25
7-way	**2002-407**	25
8-way	**2002-408**	25
9-way	**2002-409**	25
10-way	**2002-410**	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

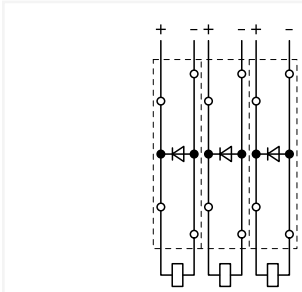


1 to 3	**2002-433**	25
1 to 4	**2002-434**	25
1 to 5	**2002-435**	25
1 to 6	**2002-436**	25
1 to 7	**2002-437**	25
1 to 8	**2002-438**	25
1 to 9	**2002-439**	25
1 to 10	**2002-440**	25

Double-deck marker carrier; pivoting



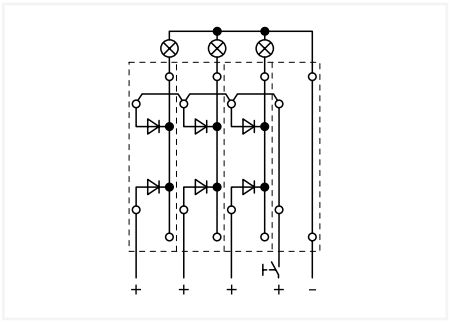
gray	**2002-121**	50 (25)



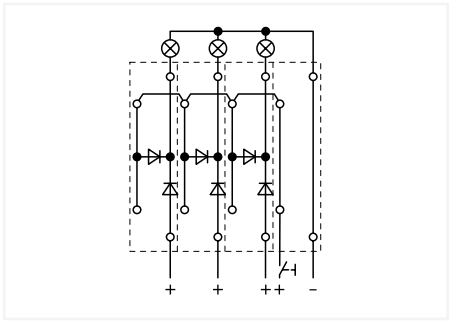
Open diode gates can be created using the following terminal blocks:
2002-2211/1000-410 or 2002-2211/1000-411



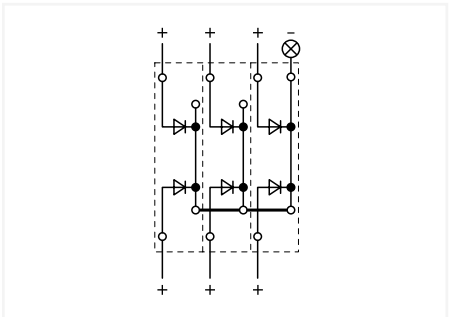
Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
These terminal blocks provide high-density wiring in a width of just 5.2 mm.
Push-in type jumper bars provide additional options for custom circuit design.



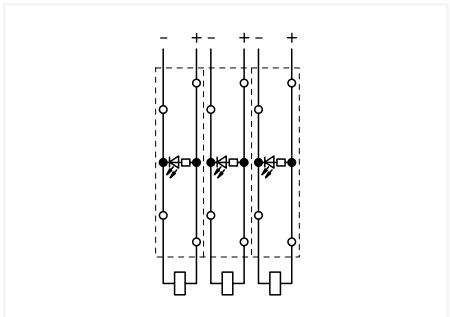
Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-2213/1000-487 or 2002-2213/1000-488



Lamp test circuits can be created using the following terminal blocks:
2002-2214/1000-492 or 2002-2214/1000-491



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-2214/1000-489 or 2002-2214/1000-490



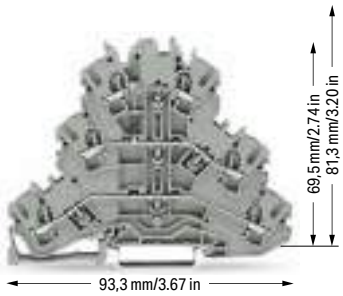
Circuit-related voltage indications can be created using the following terminal blocks:
2002-2221/1000-434 or 2002-2221/1000-413

Triple-Deck Diode Terminal Block, Triple-Deck LED Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

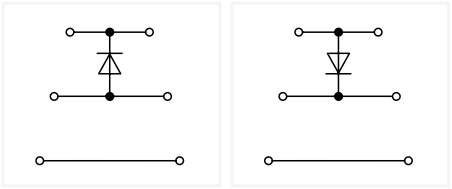
1

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 - 0.5 A continuous current
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



2002-3211/1000-410 2002-3211/1000-411



Triple-deck diode terminal block;, with 1N4007 diode; gray

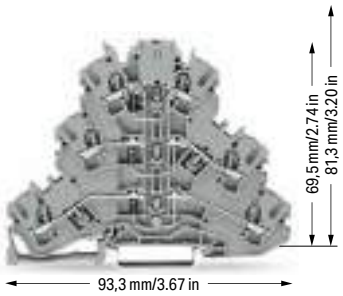
	Item No.	Pack. Unit
anode bottom	2002-3211/1000-410	50
anode top	2002-3211/1000-411	50

Other terminal blocks with the same profile:

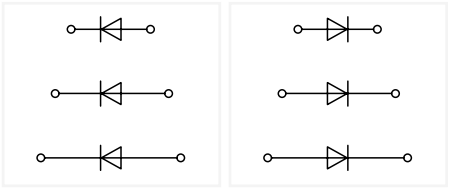
Through	2002-3201	Page 88

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 - 0.5 A continuous current
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



2002-3212/1000-673 2002-3212/1000-674

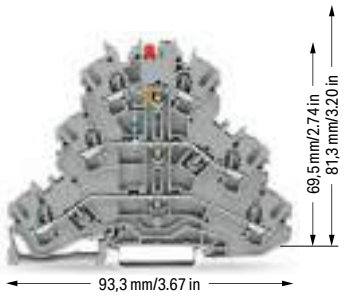


Triple-deck diode terminal block; with three 1N4007 diodes; gray

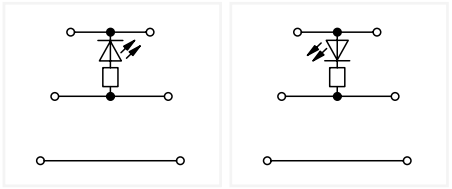
	Item No.	Pack. Unit
anodes right	2002-3212/1000-673	50
anodes left	2002-3212/1000-674	50

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
24 VDC
I_F 0.025 A max.
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch

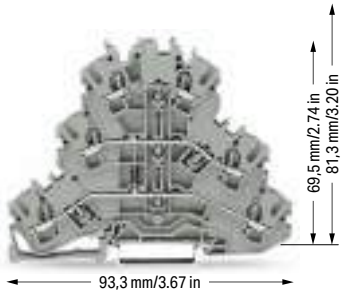


2002-3221/1000-434 2002-3221/1000-413

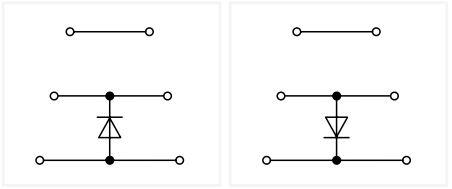


Triple-deck LED terminal block; with red LED; gray

	Item No.	Pack. Unit
anode bottom	2002-3221/1000-434	50
anode top	2002-3221/1000-413	50



2002-3211/1000-675 2002-3211/1000-676



Triple-deck diode terminal block;, with 1N4007 diode; gray

	Item No.	Pack. Unit
anode bottom	2002-3211/1000-675	50
anode top	2002-3211/1000-676	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2002-3292	100 (25)
gray	2002-3291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Modular connector; snaps together; for jumper contact slot



gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2002-549	100 (25)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Triple-deck marker carrier; pivoting



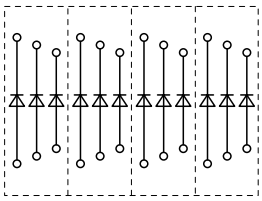
gray	2002-131	50 (25)



Double- and triple-deck LED terminal blocks:
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.



Triple-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
These terminal blocks provide high-density wiring in a width of just 5.2 mm.
Push-in type jumper bars provide additional options for custom circuit design.



Open diode gates can be created and connected individually using the following terminal blocks:
2002-3212/1000-673 or 2002-3212/1000-674

Using push-in type jumper bars, individual decks can be turned into polarized diode gates.

Connector, Connector Strip TOPJOB® S

1 (1.5) mm²; 2000 Series and 1.5 (2,5) mm²; 2001 Series and 2.5 (4) mm²; 2002 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❹	300 V, 10 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
1-pole	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

	Item No.	Pack. Unit
gray	2000-549	100 (25)

connector strip; for jumper contact slot; gray

	Item No.	Pack. Unit
2-pole	2000-552	25
3-pole	2000-553	25
4-pole	2000-554	25
5-pole	2000-555	10
6-pole	2000-556	10
7-pole	2000-557	10
8-pole	2000-558	10
9-pole	2000-559	10
10-pole	2000-560	10

Accessories; item-specific

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❹	600 V, 10 A
I_N 13.5 A	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Modular connector; with end plate; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
1-pole	2000-511	100 (25)

Accessories; item-specific

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Technical Data	
0.25 … 1.5 (2.5) mm² ❷	22 … 14 AWG
500 V / 6 kV / 3 ❹	300 V, 15 A
I_N 17.5 A	300 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
1-pole	2001-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

	Item No.	Pack. Unit
gray	2001-549	100 (25)

connector strip; for jumper contact slot; gray

	Item No.	Pack. Unit
2-pole	2001-552	25
3-pole	2001-553	25
4-pole	2001-554	25
5-pole	2001-555	10
6-pole	2001-556	10
7-pole	2001-557	10
8-pole	2001-558	10
9-pole	2001-559	10
10-pole	2001-560	10

Accessories; item-specific

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable

white	2009-114	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

plain	793-4501	5

Accessories; 2000 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50 (1)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❸	22 … 12 AWG
500 V / 6 kV / 3 ❹	300 V, 20 A
I_N 24 A	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ Conductor range: 0.25 … 2.5 mm² "s+f-st";
Push-in termination: 0.75 … 2.5 mm² "s" and
0.75 … 1.5 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❸ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❹ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com



Snapping connectors and spacers together to assemble a multipole connector.



Operating tool for fine-stranded conductors without ferrules – push-in connection of solid conductors

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
◯ 1-pole	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

◯ gray	2002-549	100 (25)

connector strip; for jumper contact slot; gray

◯ 2-pole	2002-552	25
◯ 3-pole	2002-553	25
◯ 4-pole	2002-554	25
◯ 5-pole	2002-555	10
◯ 6-pole	2002-556	10
◯ 7-pole	2002-557	10
◯ 8-pole	2002-558	10
◯ 9-pole	2002-559	10
◯ 10-pole	2002-560	10

Accessories; item-specific

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1



Rail-mount terminal block assembly for electric motor wiring



Snapping on a strain relief plate.



The modular connectors also connect conductors of the same size as the terminal blocks being used.



Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester

Connector, Connector Strip TOPJOB® S

4 (6) mm²; 2004 Series; 2006 Series; 2010 Series and 2016 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V / 6 kV / 3 ❷	300 V, 30 A
I_N 32 A	300 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Modular connector; for jumper contact slot; snaps together; gray		
	Item No.	Pack. Unit
1-pole	2004-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks		
gray	2004-549	100 (25)

connector strip; for jumper contact slot; gray		
2-pole	2004-552	25
3-pole	2004-553	25
4-pole	2004-554	25
5-pole	2004-555	10

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V / 6 kV / 3 ❷	
I_N 32 A	
Terminal block width: 7.5 mm / 0.295 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Modular connector; for jumper contact slot; snaps together; gray		
	Item No.	Pack. Unit
1-pole	2006-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks		
gray	2006-549	50 (25)

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V / 6 kV / 3 ❷	
I_N 32 A	
Terminal block width: 10 mm / 0.394 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Modular connector; for jumper contact slot; snaps together; gray		
	Item No.	Pack. Unit
1-pole	2010-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks		
gray	2010-549	50 (25)

Accessories, for connector strips

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate; for modular connector; 1.5 mm thick			
	gray	2004-541	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V			
	red	210-136	50 (1)

Strain relief plate; gray			
	35 mm wide	734-326	100 (25)
	6 mm wide	734-327	100 (25)
	12.5 mm wide	734-328	100 (25)
	25 mm wide	734-329	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V / 6 kV / 3 ❷	
I_N 32 A	
Terminal block width: 12 mm / 0.472 inch	
11 … 13 mm / 0.43 … 0.51 inch	



❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Modular connector; for jumper contact slot; snaps together; gray		
	Item No.	Pack. Unit
◯ 1-pole	2016-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks		
◯ gray	2016-549	50 (25)

PUSH-IN CAGE CLAMP®

L-Type Test Plug Module TOPJOB® S for Testing 5.2 mm Wide Rail-Mount Terminal Blocks – via Conductor Entries

2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V / 6 kV / 3 ❷	
I_N 18 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com



L-type test plug assembly:
L-type test plug modules and L-type spacer modules (max. 10-pole)
Additionally, terminal blocks can be skipped using spacer modules.

L-type test plug module; snaps together; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

	Item No.	Pack. Unit
◯ 1-pole	2002-611	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

◯ gray	2002-649	100 (25)

Accessories; for L-type test plug modules

Appropriate marking systems:
WMB/WMB Inline/Mini-WSB

End plate; for modular test plug module; 1.5 mm thick



gray	2002-641	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50 (1)

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

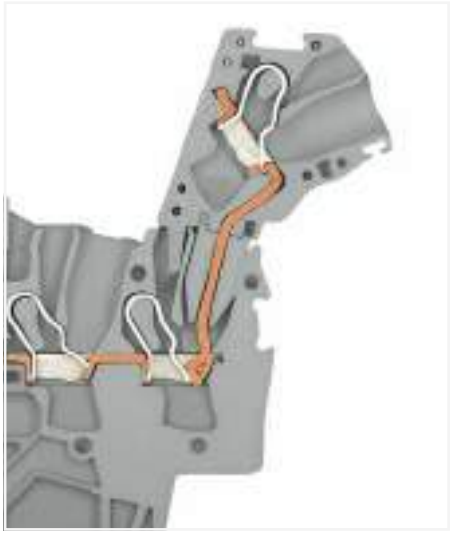
plain	793-5501	5



L-type test plug modules fitted in a triple-deck terminal block



L-type test plug modules for testing rail-mount terminal blocks via conductor entries



L-type test plug module – cross-sectional view of contacts

Test Plug Adapter, Testing Tap TOPJOB® S
2009 Series



Test plug adapter; for 4 mm Ø test plug; for testing Rail-Mount Terminal Blocks TOPJOB® S
Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

Color	Item No.	Pack. Unit
gray	**2009-174**	100 (25)



Testing tap; for max. 2.5 mm²; connects test cables (0.08 … 2.5 mm²) without tool
Power must be switched off when installing the testing tap. The safety guidelines for working on live installations must be observed.

Color	Item No.	Pack. Unit
gray	**2009-182**	100 (25)

Item-Specific Accessories

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V



215-111 50



Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series



Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Colored Push-In Type Jumper Bar TOPJOB® S
2000 Series and 2002 Series

1







Push-in type jumper bar; insulated; I_N 13.5 A; red		
	Item No.	Pack. Unit
2-way	2000-402/000-005	25
3-way	2000-403/000-005	25
4-way	2000-404/000-005	25
5-way	2000-405/000-005	25
6-way	2000-406/000-005	25
7-way	2000-407/000-005	25
8-way	2000-408/000-005	25
9-way	2000-409/000-005	25
10-way	2000-410/000-005	25

Push-in type jumper bar; insulated; I_N 13.5 A; blue		
	Item No.	Pack. Unit
2-way	2000-402/000-006	25
3-way	2000-403/000-006	25
4-way	2000-404/000-006	25
5-way	2000-405/000-006	25
6-way	2000-406/000-006	25
7-way	2000-407/000-006	25
8-way	2000-408/000-006	25
9-way	2000-409/000-006	25
10-way	2000-410/000-006	25

Push-in type jumper bar; insulated; yellow-green		
	Item No.	Pack. Unit
2-way	2000-402/000-018	25

Push-in type jumper bar; insulated; I_N 13.5 A; red		
1 to 3	2000-433/000-005	25

Push-in type jumper bar; insulated; I_N 13.5 A; blue		
1 to 3	2000-433/000-006	25

Push-in type jumper bar; insulated; I_N 25 A; red		
2-way	2002-402/000-005	25
3-way	2002-403/000-005	25
4-way	2002-404/000-005	25
5-way	2002-405/000-005	25
6-way	2002-406/000-005	25
7-way	2002-407/000-005	25
8-way	2002-408/000-005	25
9-way	2002-409/000-005	25
10-way	2002-410/000-005	25

Push-in type jumper bar; insulated; I_N 25 A; blue		
2-way	2002-402/000-006	25
3-way	2002-403/000-006	25
4-way	2002-404/000-006	25
5-way	2002-405/000-006	25
6-way	2002-406/000-006	25
7-way	2002-407/000-006	25
8-way	2002-408/000-006	25
9-way	2002-409/000-006	25
10-way	2002-410/000-006	25



For example, colored push-in type jumper bars are used with sensor terminal blocks.

Continuous Jumper TOPJOB® S
2002 Series

Technical Data
800 V
I_N 25 A



Continuous jumper; insulated; 2-way

	Item No.	Pack. Unit
light gray	2002-400	25
red	2002-400/000-005	25
blue	2002-400/000-006	25

Technical Data
800 V / 8 kV / 3
I_N 25 A



Continuous jumper; insulated; 1 to 3

Color	Item No.	Pack. Unit
light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Continuous jumper; insulated; 1 to 4

Color	Item No.	Pack. Unit
light gray	2002-424	25
red	2002-424/000-005	25
blue	2002-424/000-006	25

Technical Data
800 V / 8 kV / 3
I_N 25 A



Continuous jumper; insulated; light gray

	Item No.	Pack. Unit
1 to 3	2002-413	25
1 to 5	2002-415	25



Continuous jumpers (2002 Series) readily connect an endless number of terminal blocks to each other via single jumper slot. Use the second jumper slot for additional commoning or testing.



The 1-to-3 Continuous jumper enables every other terminal block to be commoned. For example, positive and negative potentials can be accommodated alongside each other.



Adjacent jumpers for continuous commoning (2002-400)

Staggered Jumper TOPJOB® S
2002 Series

1

Technical Data
400 V / 6 kV / 3
I_N 25 A





Staggered jumper (seven contacts):
Individual jumper contacts can be broken off by bending them. The remaining piece of insulation will meet requirements for clearances and creepage distances.



Staggered jumpers (seven contacts)

Staggered jumper; insulated; for 2002, 2003, 2022 and 2202 Series Rail-Mount Terminal Blocks; light gray		
	Item No.	Pack. Unit
◯ 2-way	2002-472	25
◯ 3-way	2002-473	25
◯ 4-way	2002-474	25
◯ 5-way	2002-475	25
◯ 6-way	2002-476	25
◯ 7-way	2002-477	25
◯ 8-way	2002-478	25
◯ 9-way	2002-479	25
◯ 10-way	2002-480	25
◯ 11-way	2002-481	25
◯ 12-way	2002-482	25



Staggered jumper:
Marking with a felt-tip pen.



Locate red stripes of the staggered jumpers on the inside. Insert staggered jumper and push down until it hits backstop.

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; light gray		
◯ 1-3	2002-473/011-000	25
◯ 1-3-5	2002-475/011-000	25
◯ 1-3-5-7	2002-477/011-000	25
◯ 1-3-5-7-9	2002-479/011-000	25
◯ 1-3-5-7-9-11	2002-481/011-000	25

Commoning using staggered jumpers:
Individual jumper contacts can be broken off by bending them. The remaining piece of insulation will meet requirements for clearances and creepage distances.
Custom staggered jumpers can be created, e.g., for bridging over a terminal block with a different potential. Make sure that only one contact lug is in contact with the terminal block.
The contact lugs of the customized staggered jumpers contact the terminal blocks via the gaps created in the second jumper. Insert and press the ready-made jumper assembly into the jumper slot until it hits backstop.



Staggering jumpers in a single jumper slot.
Custom staggered jumpers can be created, e.g., for bridging over a terminal block with a different potential. Make sure that only one contact lug is in contact with the terminal block.
The contact lugs of the customized staggered jumpers contact the terminal blocks via the gaps created in the second jumper. Insert and press the ready-made jumper assembly into the jumper slot until it hits backstop.



Removing a staggered jumper:
Insert the operating tool between the staggered jumpers, then lift up the jumper.



Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.

Star Point Jumper, Delta Jumper, Collective Jumper Carrier TOPJOB® S

Technical Data
800 V / 8 kV / 3
I_N = I_N terminal block



Star point jumper; insulated; 1-3-5; light gray

	Item No.	Pack. Unit
◯	2000-405/011-000	25
◯	2001-405/011-000	25
◯	2002-405/011-000	25
◯	2004-405/011-000	25
◯	2006-405/011-000	25
◯	2010-405/011-000	25
◯	2016-405/011-000	25



This star point jumper has been specially developed to create a “star point” and is used on motor terminal boards equipped with rail-mount terminal blocks TOPJOB® S.

Technical Data
800 V / 8 kV / 3
I_N = I_N terminal block



Delta jumper; insulated; 1-2 3-4 5-6; light gray

	Item No.	Pack. Unit
◯	2000-406/020-000	25
◯	2001-406/020-000	25
◯	2002-406/020-000	25
◯	2004-406/020-000	25



This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with rail-mount terminal blocks TOPJOB® S.



Collective jumper carrier; for DIN-35 rail; for 2000 to 2016 Series jumpers

Color	Item No.	Pack. Unit
◯ gray	2009-180	25



Collective jumper carrier

Push-In Type Wire Jumper TOPJOB® S
2009 Series

1

Technical Data
800 V / 8 kV / 3
I_N 9 A



Technical Data
800 V / 8 kV / 3
I_N 18 A





Push-in type wire jumpers common terminal blocks over longer distances and across multiple levels.

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; for 2000, 2020 and 2200 Series Rail-Mount Terminal Blocks; gray

	Item No.	Pack. Unit
L = 60 mm	**2009-402**	100 (10)
L = 110 mm	**2009-404**	100 (10)
L = 250 mm	**2009-406**	100 (10)

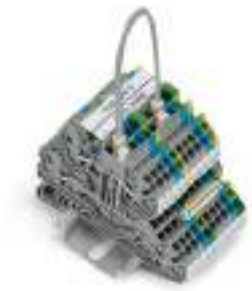
Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; for 2001, 2002, 2003, 2022, 2201 and 2202 Series Rail-Mount Terminal Blocks; black

	Item No.	Pack. Unit
L = 60 mm	**2009-412**	100 (10)
L = 110 mm	**2009-414**	100 (10)
L = 250 mm	**2009-416**	100 (10)



Push-in type wire jumper; insulated; L = 110 mm; 1.5 mm² conductor cross-section; for 2001, 2002, 2003, 2022, 2201 and 2202 Series Rail-Mount Terminal Blocks

Color	Item No.	Pack. Unit
red	**2009-414/000-005**	100 (10)
blue	**2009-414/000-006**	100 (10)



Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.



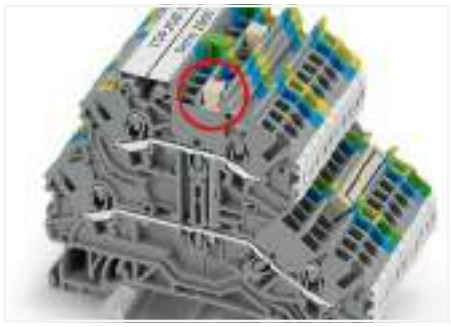
Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

Vertical Jumper TOPJOB® S
2000 Series and 2002 Series

Technical Data
500 V / 6 kV / 3
I_N 13.5 A



Double-deck vertical jumper; insulated		
Color	Item No.	Pack. Unit
◯ light gray	**2000-492**	100 (25)



Commoning two levels via double-deck vertical jumper (2000-492).

Technical Data
500 V / 6 kV / 3
I_N 24 A



Double-deck vertical jumper; insulated		
Color	Item No.	Pack. Unit
◯ light gray	**2002-492**	100 (25)
● orange	**2002-492/000-012**	100 (25)



Commoning two levels via double-deck vertical jumper (2002-492).

Technical Data
500 V / 6 kV / 3
I_N 24 A



Triple-deck vertical jumper; insulated		
Color	Item No.	Pack. Unit
◯ light gray	**2002-493**	100 (25)



Created for double- and triple-deck terminal blocks TOPJOB® S, the vertical jumpers can common two or three levels. Clearly marked numerals (“2” and “3”) distinguish the double-deck (2002-492) and triple-deck vertical jumpers (2002-493), even when inserted.



Commoning three levels via triple-deck vertical jumper (2002-493).

Disconnect plug, Blind Plug for Carrier Terminal Block TOPJOB® S
2002 Series and 2006 Series

1

Technical Data
400 V / 6 kV / 3
I_N 10 A



Technical Data
800 V / 8 kV / 3
I_N 30 A





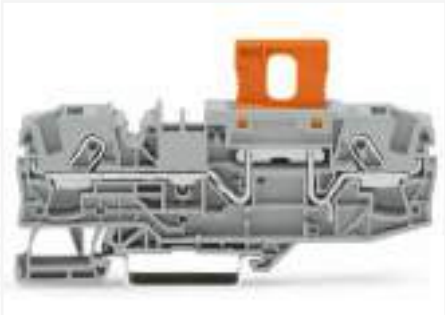
Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block		
Color	Item No.	Pack. Unit
orange	2002-401	100 (25)

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block		
Color	Item No.	Pack. Unit
orange	2006-401	100 (25)
white	2006-401/000-050	100 (25)

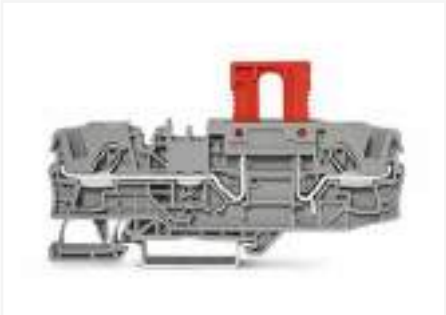
Blind plug for carrier terminal block; indicates a disconnection		
Color	Item No.	Pack. Unit
red	2006-451	100 (25)



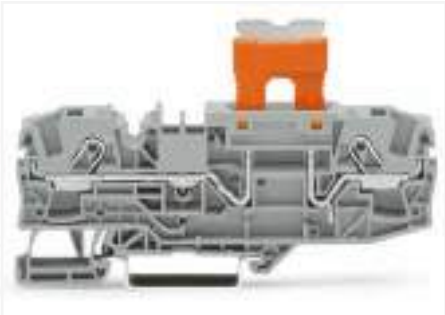
Carrier terminal block (2002-1661) with disconnect plug (2002-401) in operating position



Carrier terminal block (2006-401) with disconnect plug (2006-1661) in operating position



Blind plug (2006-451) for carrier terminal block; indicates a disconnection



Carrier terminal block (2006-401) with disconnect plug (2006-1661) in parked position

Lockout Cap TOPJOB® S
2002 Series and 2006 Series



Lockout cap; for conductor entry and operating slot		
Color	Item No.	Pack. Unit
orange	2002-192	25
gray	2002-191	25
blue	2002-194	25



Lockout cap; for conductor entry and operating slot		
Color	Item No.	Pack. Unit
gray	2006-191	25



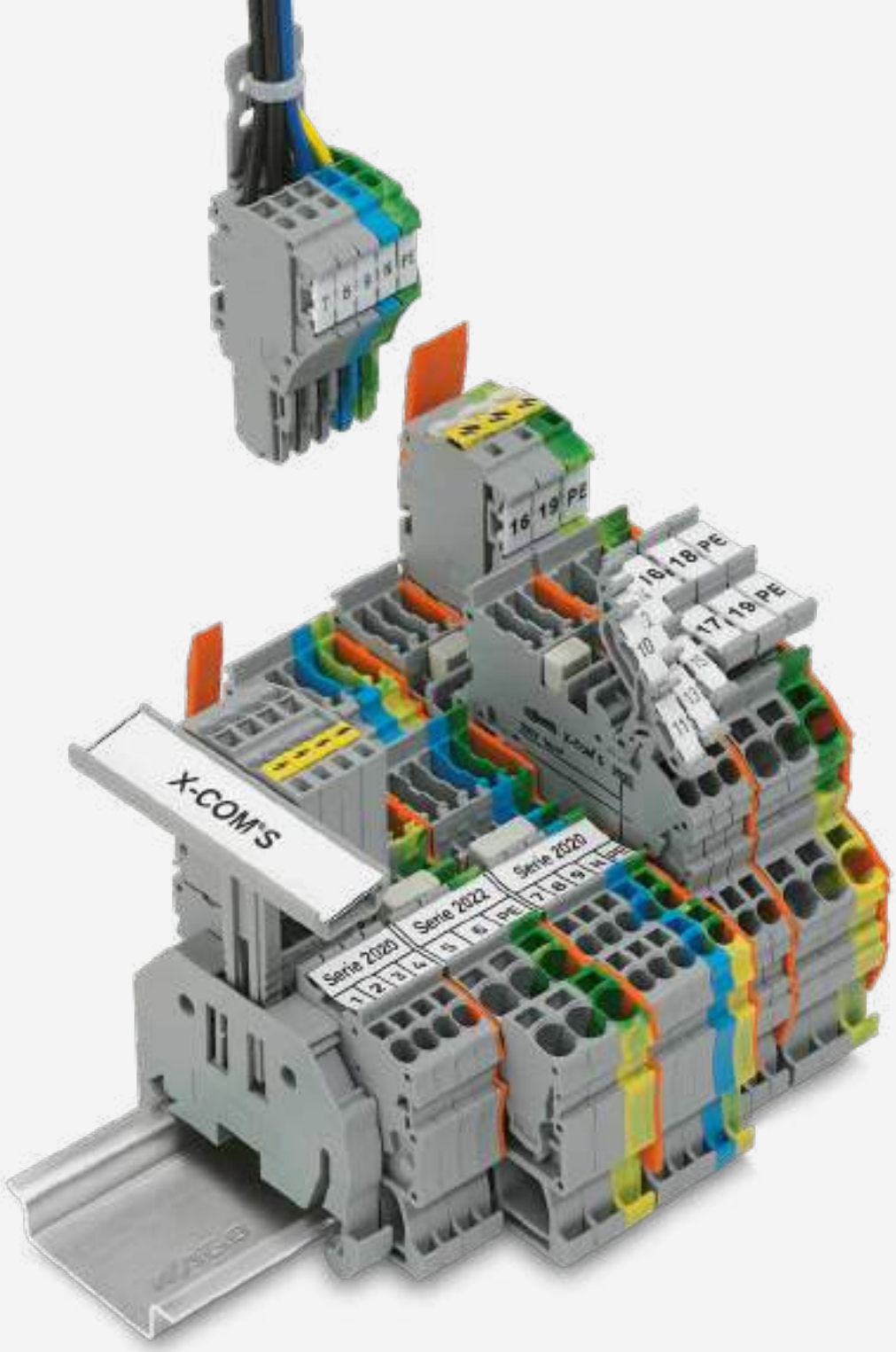
Creating spacer housings for electric motor wiring rail-mount terminal blocks via lockout caps (2002-192) for conductor entry and operating slot.



Cover (2006-191) seals unused conductor entry.



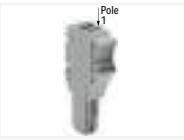
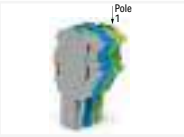
Cover (2006-191) seals unused conductor entry.



WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®S-SYSTEM

PUSH-IN CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®S-SYSTEM

			Page
	**X-COM®S-SYSTEM-MINI** **Through Carrier Terminal Blocks and Ground Conductor Carrier Terminal Blocks** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2020 Series	194
	**Double-Deck Carrier Terminal Blocks** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2020 Series	196
	**1-Conductor Female Plugs and 2-Conductor Female Plugs** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2020 Series	198
	**1-Conductor Female Plugs and 2-Conductor Female Plugs for Self-Assembly** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2020 Series	200
	**1-Conductor Female Plugs and 2-Conductor Female Plugs with Lateral Locking Levers and Strain Relief Plates** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2020 Series	202
	**X-COM®S-SYSTEM** **Through Carrier Terminal Blocks and Ground Conductor Carrier Terminal Blocks; with/without Push-Buttons** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2222/2022 Series	210
	**Double-Deck Carrier Terminal Blocks** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	216
	**1-Conductor Female Plugs** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	218
	**1-Conductor Female Plugs for Self-Assembly** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	220
	**1-Conductor Female Plugs with Lateral Locking Levers and Strain Relief Plates** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	224
	**X-COM®S-SYSTEM, for Ex ec Applications** **Through Carrier Terminal Blocks and Ground Conductor Carrier Terminal Blocks; with/without Push-Buttons** **Double-Deck Carrier Terminal Blocks** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2222/2022 Series	226 232
	**1-Conductor Female Plugs** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	234

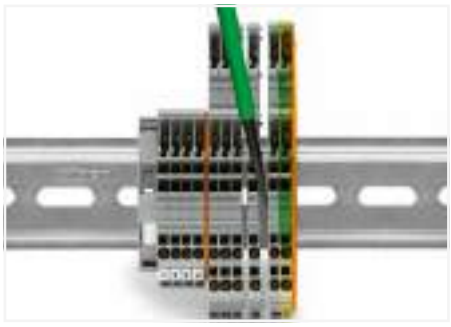
X-COM®S-SYSTEM-MINI; 2020 Series
X-COM®S-SYSTEM; 2022 Series
Description and Installation



Snap individual carrier terminal blocks onto the DIN-rail and slide together.



Open the assembly by laterally sliding a block via operating tool (3.5 x 0.5 mm blade).



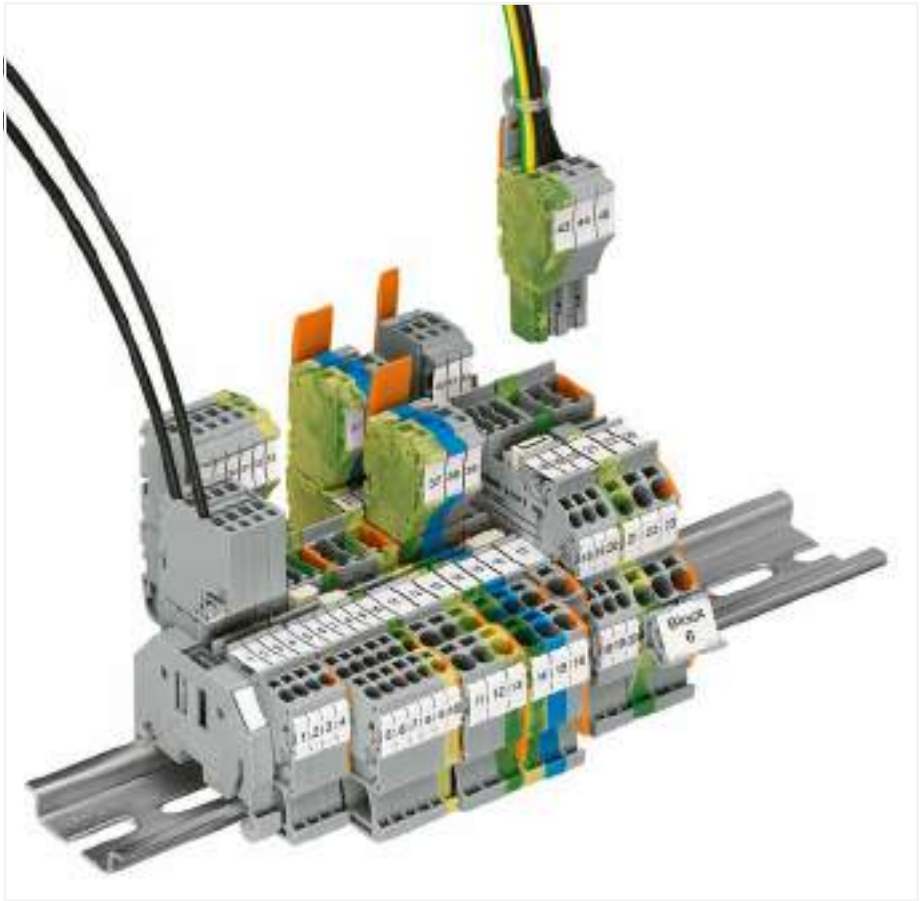
Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.



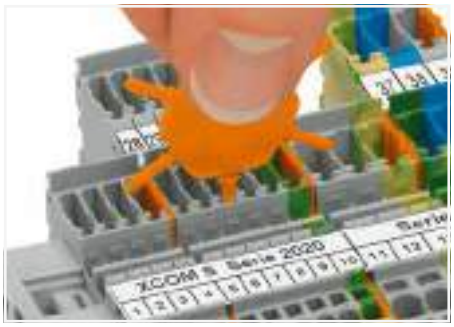
Carrier terminal blocks and female plugs are touch-proof.



Push-in CAGE CLAMP® enables solid conductors to be connected by simply pushing them into the unit.



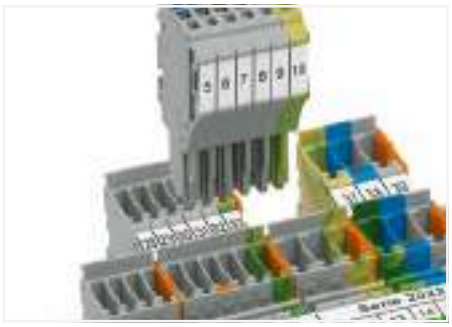
Note: Female plugs used according to the regulations must not be connected/disconnected when live or under load.



Insert coding pin into the corresponding slot and twist it off.



Coding a female plug: remove coding finger using a suitable tool.



Insert coded female connector into X-COM®S-SYSTEM terminal block assembly.



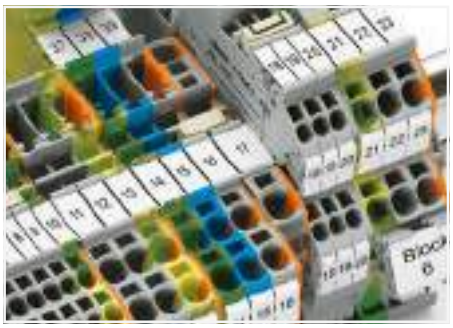
Push-in CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands



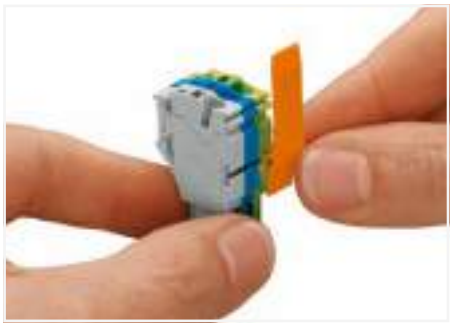
Commoning X-COM®S-SYSTEM Terminal Blocks using jumpers for Terminal Blocks TOPJOB® S. An end plate provides connection to Terminal Blocks TOPJOB® S. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.



Pairing push-in comb style jumpers.



Commoning with push-in type wire jumper.



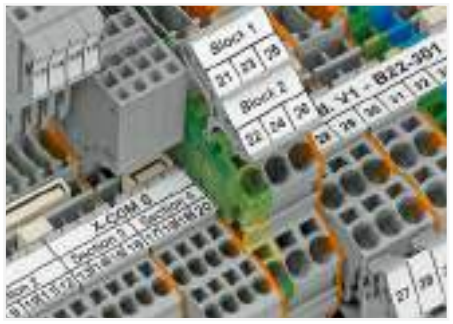
Slide the locking lever into position.



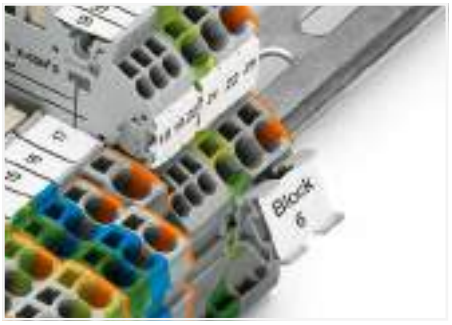
Female plugs can be individually locked.



Test plug adapter (2009-174) for 4 mm test plugs or banana plugs – also suitable for X-COM®S-SYSTEM-MINI Terminal Blocks.



Clear marking via large marking area



Marker carrier (2009-198)



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



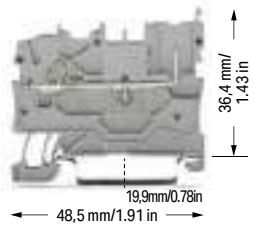
fine-stranded, with pin terminal (gastight crimped)

1-Conductor/1-Pin Carrier Terminal Block, 2-Conductor/1-Pin Carrier Terminal Block, 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM-MINI

1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

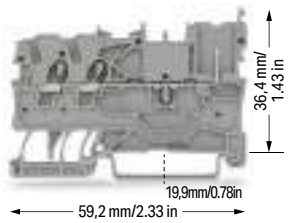


1-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2020-1201	50
blue	2020-1204	50

1-conductor/1-pin ground carrier terminal block		
green-yellow	2020-1207	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2020-1292	100 (25)
	gray	2020-1291	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

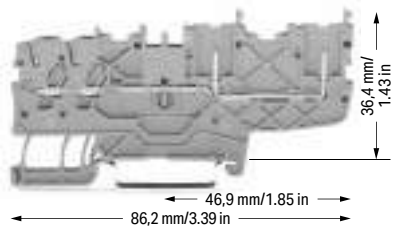


2-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2020-1301	50
blue	2020-1304	50

2-conductor/1-pin ground carrier terminal block		
green-yellow	2020-1307	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2020-1392	100 (25)
	gray	2020-1391	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor/2-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2020-1401	50
blue	2020-1404	50

2-conductor/2-pin ground carrier terminal block		
green-yellow	2020-1407	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2020-1492	100 (25)
	gray	2020-1491	100 (25)

Accessories; 2020 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 13.5 A; light gray		
2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 13.5 A; light gray		
1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray		
1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray		
1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A		
L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs			
	orange	2020-100	100 (25)

Test pin; 1 mm Ø		
	859-500	1

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

1-conductor female plug			
	gray	2020-102	100

2-conductor female plug			
	gray	2020-202	100

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel			
	white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width			
	plain	793-3501	5

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

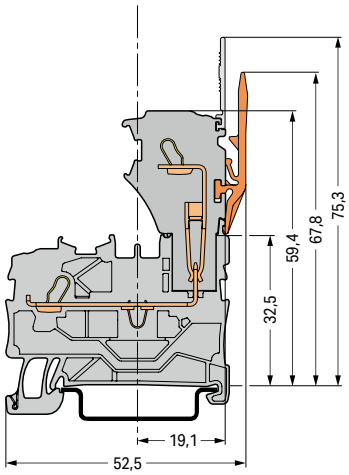
❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

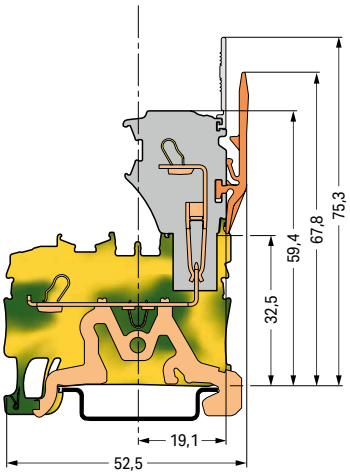
Note:
When used as intended, female plugs must not be connected/disconnected when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



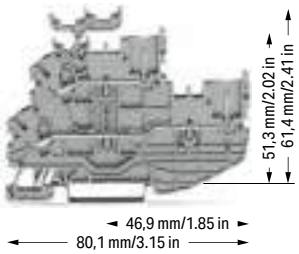
Carrier terminal block



Ground carrier terminal block

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

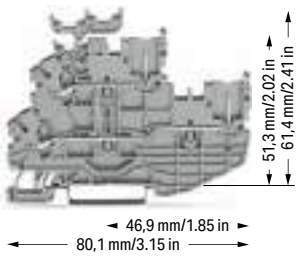


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2020-2231	50
N/L	2020-2232	50
L/N	2020-2233	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; gray

L/L	2020-2201	50
N/L	2020-2202	50
L/N	2020-2203	50



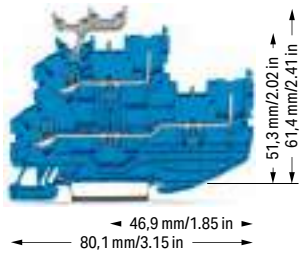
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2020-2238	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; gray

L	2020-2208	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

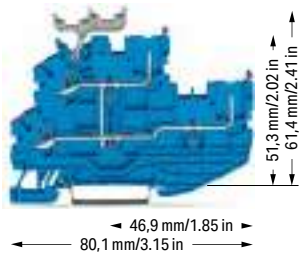


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2020-2234	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; blue

N/N	2020-2204	50



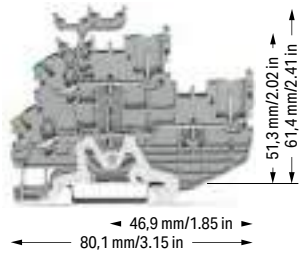
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2020-2239	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; blue

N	2020-2209	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

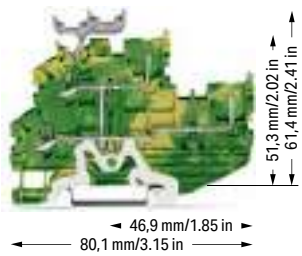


1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
PE/N	2020-2247	50
PE/L	2020-2257	50

1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; without marker carrier; gray

PE/N	2020-2217	50
PE/L	2020-2227	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2020-2237	50

2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; without marker carrier; internally commoned; green-yellow

PE	2020-2207	50

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2020 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2020-2292	100 (25)
gray	2020-2291	100 (25)

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 13.5 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck vertical jumper; insulated; I_N 13.5 A

light gray	2000-492	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

Test pin; 1 mm Ø



	859-500	1

Accessories; 2020 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

1-conductor female plug



gray	2020-102	100

2-conductor female plug



gray	2020-202	100

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Double-deck marker carrier; pivoting



gray	2000-121	50 (25)



Size comparison:
Double-deck carrier terminal blocks with 3.5 mm and 5.2 mm terminal block widths

PUSH-IN CAGE CLAMP®

2

1-Conductor Female Plug, 2-Conductor Female Plug X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

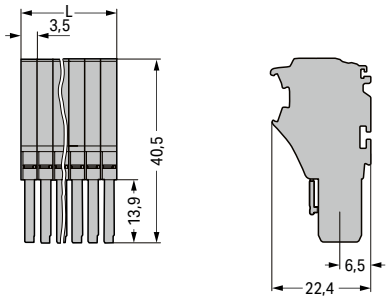
❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Item no. suffixes
blue …/000-006
green-yellow …/000-016

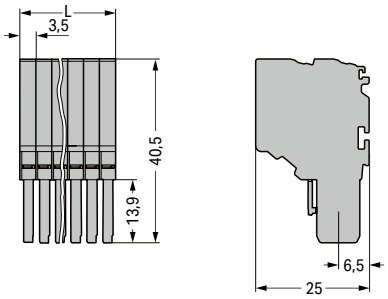
Approvals and corresponding ratings, visit www.wago.com

Dimensions (in mm):



L = (pole no. x module width) + 0.7 mm

Dimensions (in mm):



L = (pole no. x module width) + 0.7 mm



X-COM®S-SYSTEM terminal block assembly

1-conductor female plug; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Pole No.	Item No.	Pack. Unit
2	2020-102	100
3	2020-103	50
4	2020-104	50
5	2020-105	50
6	2020-106	50
7	2020-107	25
8	2020-108	25
9	2020-109	25
10	2020-110	25
11	2020-111	20
12	2020-112	20
13	2020-113	10
14	2020-114	10
15	2020-115	10

2-conductor female plug; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Pole No.	Item No.	Pack. Unit
2	2020-202	100
3	2020-203	50
4	2020-204	50
5	2020-205	50
6	2020-206	25
7	2020-207	25
8	2020-208	25
9	2020-209	25
10	2020-210	25
11	2020-211	20
12	2020-212	20
13	2020-213	10
14	2020-214	10
15	2020-215	10



X-COM®S-SYSTEM terminal block assembly

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

Locking lever; 4.8 mm wide



orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide



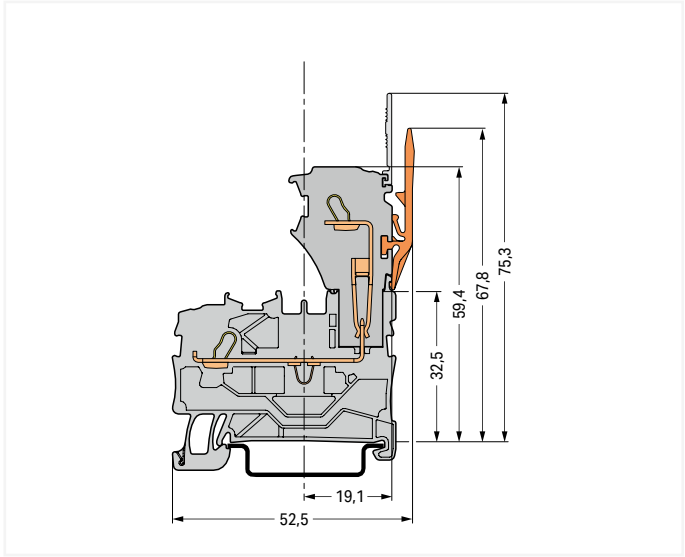
orange	2022-152	100 (25)
gray	2022-151	100 (25)

PUSH-IN CAGE CLAMP®

Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®S-SYSTEM-MINI
Types of Assembly



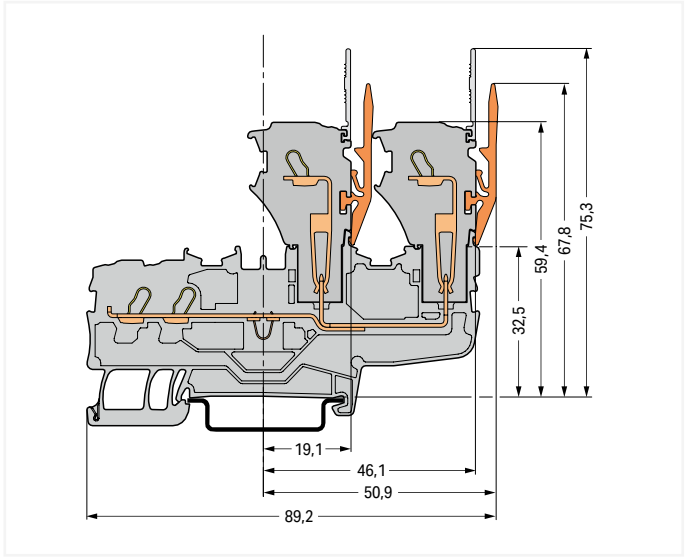
1-conductor female plug
Carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



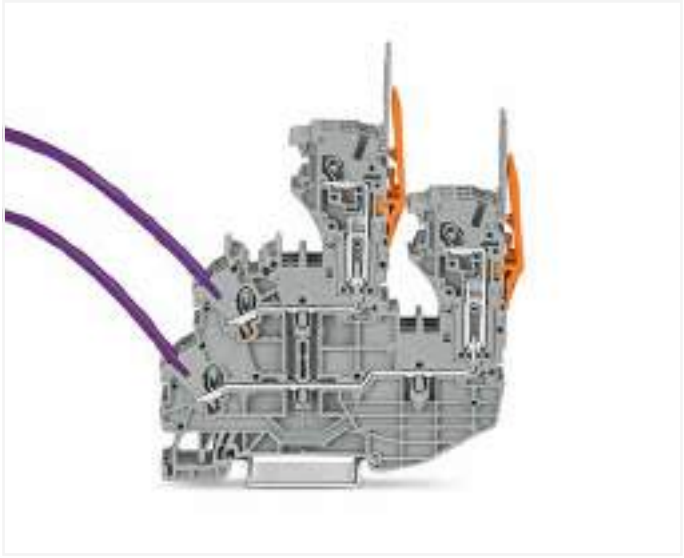
Carrier terminal block



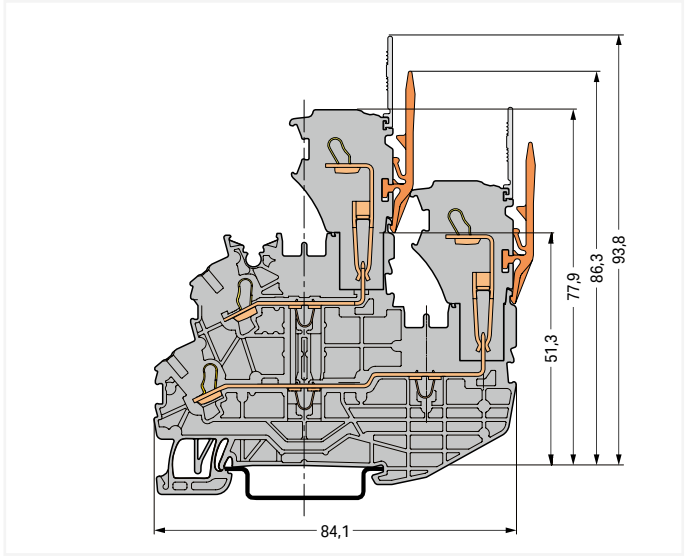
2-conductor female plug
Carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



Carrier terminal block



1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



Double-deck carrier terminal block

Female Plug for Self-Assembly X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

1-conductor end module; codable		
Color	Item No.	Pack. Unit
gray	**2020-181**	250
blue	**2020-184**	250
green-yellow	**2020-187**	250

2-conductor end module; codable		
Color	Item No.	Pack. Unit
gray	**2020-281**	250
blue	**2020-284**	250
green-yellow	**2020-287**	250

1-conductor base module; with end plate; codable		
gray	**2020-161**	250
blue	**2020-164**	250
green-yellow	**2020-167**	250

2-conductor base module; with end plate; codable		
gray	**2020-261**	250
blue	**2020-264**	250
green-yellow	**2020-267**	250

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	**2000-115**	100 (25)

Carrier with 6 coding pins; for coding female plugs			
	orange	**2020-100**	100 (25)

Locking lever; 4.8 mm wide			
	orange	**2022-142**	100 (25)
	gray	**2022-141**	100 (25)

Locking lever; 9.6 mm wide			
	orange	**2022-152**	100 (25)
	gray	**2022-151**	100 (25)

Strain relief plate; gray			
	35 mm wide	**734-326**	100 (25)
	6 mm wide	**734-327**	100 (25)
	12.5 mm wide	**734-328**	100 (25)
	25 mm wide	**734-329**	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel			
	white	**2009-113**	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width			
	plain	**793-3501**	5

Customizing Modular Female Plugs
WAGO's modular X-COM®S-SYSTEM female plugs can be customized for applications requiring varying numbers of poles (e.g., when designing prototypes).

Modules and Pole Numbers
A customized X-COM®S-SYSTEM-MINI female plug consists of:
- One base module with end plate
- Up to 14 end modules

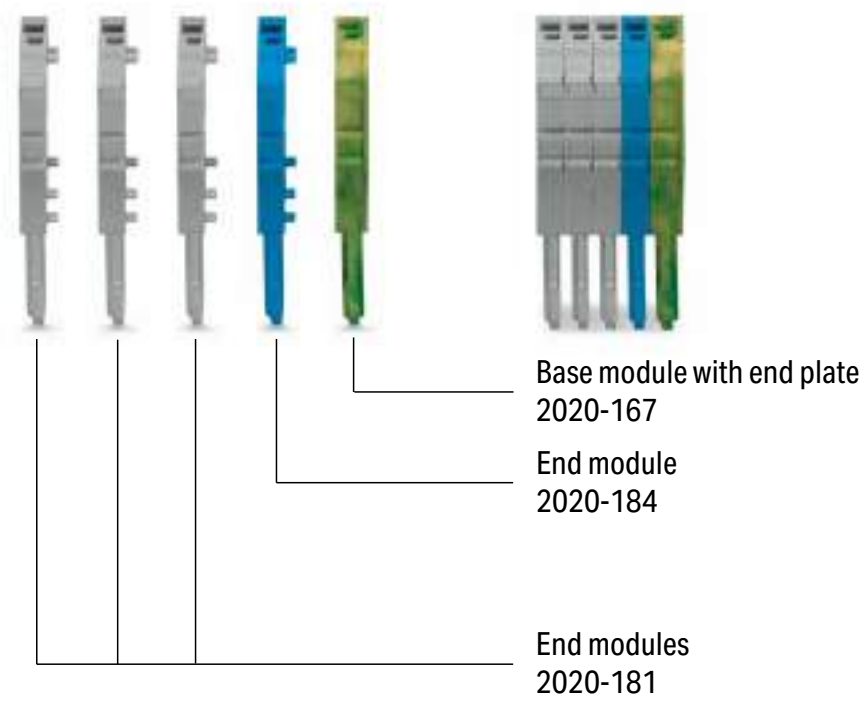
Intended Use
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Mounting
The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.


End module


Base module

Example: 5-Pole, 1-Conductor Female Plug



Pre-Assembled 1-Conductor Female Plug X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-036	50
4	2020-104/000-036	50
5	2020-105/000-036	50
6	2020-106/000-036	50
7	2020-107/000-036	25
8	2020-108/000-036	25
9	2020-109/000-036	25
10	2020-110/000-036	25
11	2020-111/000-036	20
12	2020-112/000-036	20
13	2020-113/000-036	10
14	2020-114/000-036	10
15	2020-115/000-036	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-037	50
4	2020-104/000-037	50
5	2020-105/000-037	50
6	2020-106/000-037	50
7	2020-107/000-037	25
8	2020-108/000-037	25
9	2020-109/000-037	25
10	2020-110/000-037	25
11	2020-111/000-037	20
12	2020-112/000-037	20
13	2020-113/000-037	10
14	2020-114/000-037	10
15	2020-115/000-037	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-038	50
4	2020-104/000-038	50
5	2020-105/000-038	50
6	2020-106/000-038	50
7	2020-107/000-038	25
8	2020-108/000-038	25
9	2020-109/000-038	25
10	2020-110/000-038	25
11	2020-111/000-038	20
12	2020-112/000-038	20
13	2020-113/000-038	10
14	2020-114/000-038	10
15	2020-115/000-038	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

Locking lever; 4.8 mm wide



orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide



orange	2022-152	100 (25)
gray	2022-151	100 (25)

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-039	50
4	2020-104/000-039	50
5	2020-105/000-039	50
6	2020-106/000-039	50
7	2020-107/000-039	25
8	2020-108/000-039	25
9	2020-109/000-039	25
10	2020-110/000-039	25
11	2020-111/000-039	20
12	2020-112/000-039	20
13	2020-113/000-039	10
14	2020-114/000-039	10
15	2020-115/000-039	10

Pre-Assembled 2-Conductor Female Plug X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-203/000-036	50
4	2020-204/000-036	50
5	2020-205/000-036	50
6	2020-206/000-036	50
7	2020-207/000-036	25
8	2020-208/000-036	25
9	2020-209/000-036	25
10	2020-210/000-036	25
11	2020-211/000-036	20
12	2020-212/000-036	20
13	2020-213/000-036	10
14	2020-214/000-036	10
15	2020-215/000-036	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-203/000-037	50
4	2020-204/000-037	50
5	2020-205/000-037	50
6	2020-206/000-037	50
7	2020-207/000-037	25
8	2020-208/000-037	25
9	2020-209/000-037	25
10	2020-210/000-037	25
11	2020-211/000-037	20
12	2020-212/000-037	20
13	2020-213/000-037	10
14	2020-214/000-037	10
15	2020-215/000-037	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-203/000-038	50
4	2020-204/000-038	50
5	2020-205/000-038	50
6	2020-206/000-038	50
7	2020-207/000-038	25
8	2020-208/000-038	25
9	2020-209/000-038	25
10	2020-210/000-038	25
11	2020-211/000-038	20
12	2020-212/000-038	20
13	2020-213/000-038	10
14	2020-214/000-038	10
15	2020-215/000-038	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

Locking lever; 4.8 mm wide



orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide



orange	2022-152	100 (25)
gray	2022-151	100 (25)

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

2-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

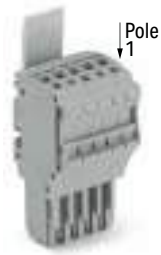
Pole No.	Item No.	Pack. Unit
3	2020-203/000-039	50
4	2020-204/000-039	50
5	2020-205/000-039	50
6	2020-206/000-039	50
7	2020-207/000-039	25
8	2020-208/000-039	25
9	2020-209/000-039	25
10	2020-210/000-039	25
11	2020-211/000-039	20
12	2020-212/000-039	20
13	2020-213/000-039	10
14	2020-214/000-039	10
15	2020-215/000-039	10

1-Conductor Female Plug X-COM®S-SYSTEM-MINI; with Lateral Locking Lever and Strain Relief Plate

1 (1.5) mm²; 2020 Series

2

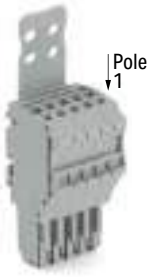
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-102/122-000	100
3	2020-103/122-000	50
4	2020-104/124-000	50
5	2020-105/124-000	50
6	2020-106/124-000	25
7	2020-107/124-000	25
8	2020-108/124-000	25
9	2020-109/124-000	25
10	2020-110/125-000	25
11	2020-111/125-000	20
12	2020-112/125-000	20
13	2020-113/125-000	10
14	2020-114/125-000	10
15	2020-115/125-000	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-102/132-000	100
3	2020-103/132-000	50
4	2020-104/133-000	50
5	2020-105/133-000	50
6	2020-106/133-000	25
7	2020-107/134-000	25
8	2020-108/134-000	25
9	2020-109/134-000	25
10	2020-110/135-000	25
11	2020-111/135-000	20
12	2020-112/135-000	20
13	2020-113/135-000	10
14	2020-114/135-000	10
15	2020-115/135-000	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-102/142-000	100
3	2020-103/142-000	50
4	2020-104/143-000	50
5	2020-105/143-000	50
6	2020-106/143-000	25
7	2020-107/144-000	25
8	2020-108/144-000	25
9	2020-109/144-000	25
10	2020-110/145-000	25
11	2020-111/145-000	20
12	2020-112/145-000	20
13	2020-113/145-000	10
14	2020-114/145-000	10
15	2020-115/145-000	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2020-100	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

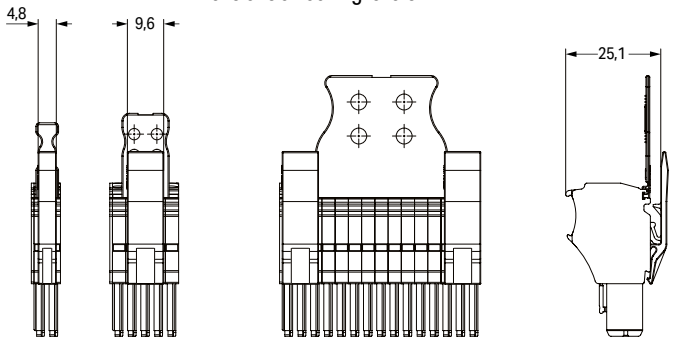
Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

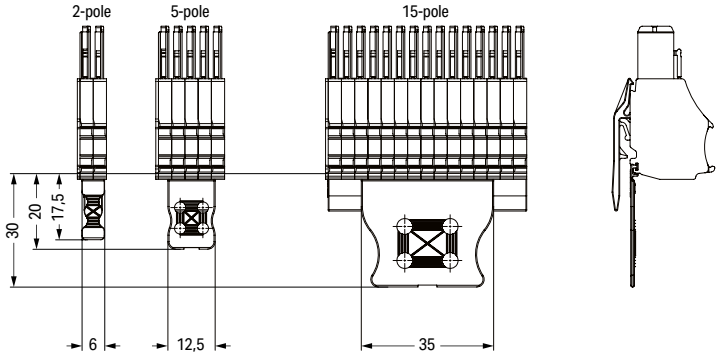
Strain Relief Plate (SRP), Gray			Assembled	Locking Lever (LL), Gray		Assembled		SRP and LL, Gray Assembled
SRP				Pole No.	Quantity	1-Way	2-Way	
			Item No. Suffix			Item No. Suffix		Item No. Suffix
Item No.	Color	Width						
734-327	gray	6mm	/132-0xx	2 to 3	1	/122-0xx	–	/142-0xx
734-328	gray	12.5mm	/133-0xx	4 to 6	1	–	/124-0xx	/143-0xx
734-329	gray	25mm	/134-0xx	7 to 9	1	–	/124-0xx	/144-0xx
734-326	gray	35mm	/135-0xx	10 to 15	2	–	/125-0xx	/145-0xx

For colored female plugs, the item number suffix “xx” must be replaced by the blue “-006” and the green-yellow “-016” color suffix.

Dimensions of locking levers



Description	Color	Item No.	Suffix No.
1-conductor female plug 2- to 15-pole	gray blue green-yellow	2020-102 to 2020-115	none /000-006 /000-016



Dimensions of strain relief plates

2-Conductor Female Plug X-COM®S-SYSTEM-MINI; with Lateral Locking Lever and Strain Relief Plate

1 (1.5) mm²; 2020 Series

2

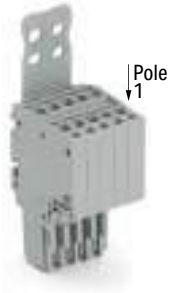
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-202/122-000	100
3	2020-203/122-000	50
4	2020-204/124-000	50
5	2020-205/124-000	50
6	2020-206/124-000	25
7	2020-207/124-000	25
8	2020-208/124-000	25
9	2020-209/124-000	25
10	2020-210/125-000	25
11	2020-211/125-000	20
12	2020-212/125-000	20
13	2020-213/125-000	10
14	2020-214/125-000	10
15	2020-215/125-000	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-202/132-000	100
3	2020-203/132-000	50
4	2020-204/133-000	50
5	2020-205/133-000	50
6	2020-206/133-000	25
7	2020-207/134-000	25
8	2020-208/134-000	25
9	2020-209/134-000	25
10	2020-210/135-000	25
11	2020-211/135-000	20
12	2020-212/135-000	20
13	2020-213/135-000	10
14	2020-214/135-000	10
15	2020-215/135-000	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 15 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-202/142-000	100
3	2020-203/142-000	50
4	2020-204/143-000	50
5	2020-205/143-000	50
6	2020-206/143-000	25
7	2020-207/144-000	25
8	2020-208/144-000	25
9	2020-209/144-000	25
10	2020-210/145-000	25
11	2020-211/145-000	20
12	2020-212/145-000	20
13	2020-213/145-000	10
14	2020-214/145-000	10
15	2020-215/145-000	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow | 2000-115 | 100 (25)

Carrier with 6 coding pins; for coding female plugs



orange | 2020-100 | 100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white | 2009-113 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain | 793-3501 | 5

2

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 10 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

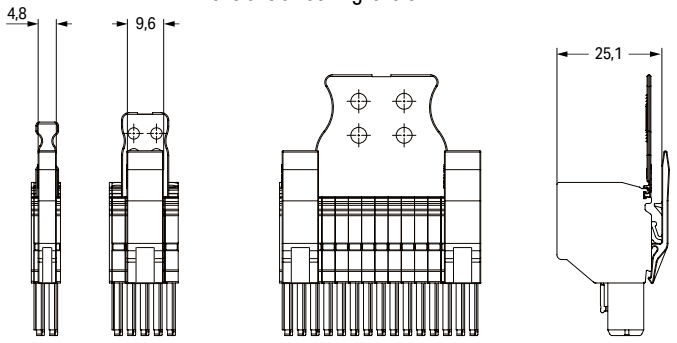
Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

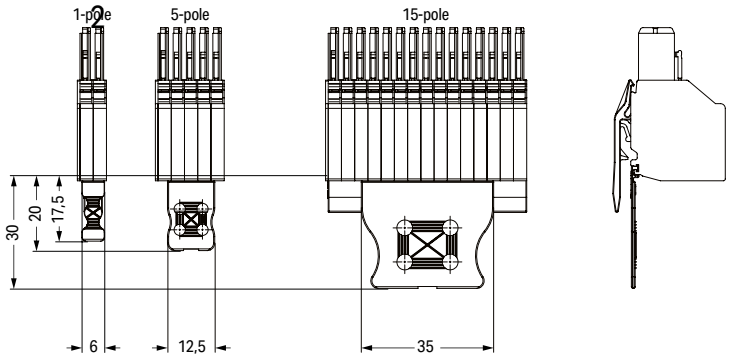
Strain Relief Plate (SRP), Gray			Assembled	Locking Lever (LL), Gray				SRP and LL, Gray Assembled
	SRP			Pole No.	Quantity	1-Way	2-Way	
			Item No. Suffix			Item No. Suffix		Item No. Suffix
Item No.	Color	Width						
734-327	gray	6mm	/132-0xx	2 to 3	1	/122-0xx	–	/142-0xx
734-328	gray	12.5mm	/133-0xx	4 to 6	1	–	/124-0xx	/143-0xx
734-329	gray	25mm	/134-0xx	7 to 9	1	–	/124-0xx	/144-0xx
734-326	gray	35mm	/135-0xx	10 to 15	2	–	/125-0xx	/145-0xx

For colored female plugs, the item number suffix “xx” must be replaced by the blue “-006” and the green-yellow “-016” color suffix.

Dimensions of locking levers



Description	Color	Item No.	Suffix No.
2-conductor female plug 2- to 15-pole	gray blue green-yellow	2020-202 to 2020-215	none /000-006 /000-016



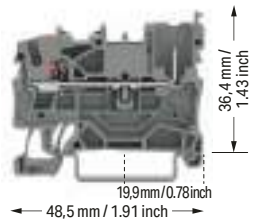
Dimensions of strain relief plates

1-Conductor/1-Pin Carrier Terminal Block , 2-Conductor/1-Pin Carrier Terminal Block , 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM; with Push-Button

2.5 (4) mm²; 2222 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	
I_N 24 A (32 A) ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

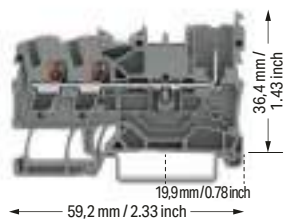


1-conductor/1-pin carrier terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2222-1201	100
blue	2222-1204	100
orange	2222-1202	100

1-conductor/1-pin ground carrier terminal block; with push-button		
green-yellow	2222-1207	100

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2022-1292	100 (25)
	gray	2022-1291	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	
I_N 24 A (32 A) ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

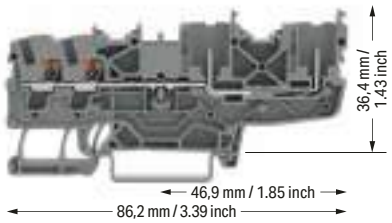


2-conductor/1-pin carrier terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2222-1301	100
blue	2222-1304	100
orange	2222-1302	100

2-conductor/1-pin ground carrier terminal block; with push-button		
green-yellow	2222-1307	100

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2022-1392	100 (25)
	gray	2022-1391	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	
I_N 24 A (28 A) ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/2-pin carrier terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2222-1401	50
blue	2222-1404	50
orange	2222-1402	50

2-conductor/2-pin ground carrier terminal block; with push-button		
green-yellow	2222-1407	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2022-1492	100 (25)
	gray	2022-1491	100 (25)

Accessories; 2222 Series

Appropriate marking systems: WMB/WMB Inline/marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray			
	2-way	2002-402	25
	3-way	2002-403	25
	4-way	2002-404	25
	5-way	2002-405	25
	6-way	2002-406	25
	7-way	2002-407	25
	8-way	2002-408	25
	9-way	2002-409	25
	10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray			
	2-way	2002-402	25
	3-way	2002-403	25
	4-way	2002-404	25
	5-way	2002-405	25
	6-way	2002-406	25
	7-way	2002-407	25
	8-way	2002-408	25
	9-way	2002-409	25
	10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray			
	1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray			
	2-way	2002-472	25
	3-way	2002-473	25
	4-way	2002-474	25
	5-way	2002-475	25
	6-way	2002-476	25
	7-way	2002-477	25
	8-way	2002-478	25
	9-way	2002-479	25
	10-way	2002-480	25
	11-way	2002-481	25
	12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A; light gray			
	1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray			
	1 to 3	2002-423	25
	1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray			
	3-way	2002-413	25
	5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A			
	L = 60 mm	2009-412	100 (10)
	L = 110 mm	2009-414	100 (10)
	L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs			
	orange	2022-100	100 (25)

Test pin; 1 mm Ø			
		859-500	1

1-conductor female plug			
	gray	2022-101	200

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm			
	white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
	plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

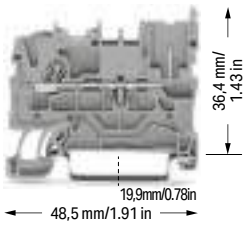
Approvals and corresponding ratings, visit www.wago.com

1-Conductor/1-Pin Carrier Terminal Block, 2-Conductor/1-Pin Carrier Terminal Block, 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM

2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2022-1201	100
blue	2022-1204	100
orange	2022-1202	100

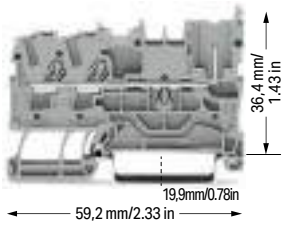
1-conductor/1-pin ground carrier terminal block		
green-yellow	2022-1207	100

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1292	100 (25)
gray	2022-1291	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2022-1301	100
blue	2022-1304	100
orange	2022-1302	100

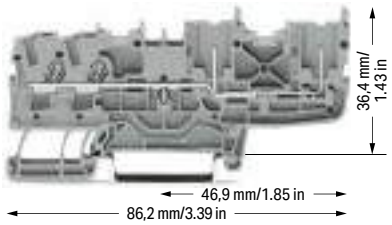
2-conductor/1-pin ground carrier terminal block		
green-yellow	2022-1307	100

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1392	100 (25)
gray	2022-1391	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/2-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2022-1401	50
blue	2022-1404	50
orange	2022-1402	50

2-conductor/2-pin ground carrier terminal block		
green-yellow	2022-1407	50

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1492	100 (25)
gray	2022-1491	100 (25)

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray

1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray

3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

1-conductor female plug

gray	2022-101	200

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



2022 Series X-COM®S-SYSTEM Carrier Terminal Blocks combined with 2002 Series Through Terminal Blocks



Carrier terminal blocks and female plugs are touch-proof.



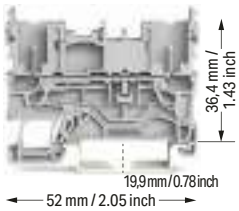
Insert coding pin into the corresponding slot and twist it off.



2-Pin Carrier Terminal Block, 4-Pin Carrier Terminal Block X-COM®S-SYSTEM
2022 Series

2

Technical Data
690 V / 6 kV / 3 ❶
I_N 24 A(28 A) ❷
Terminal block width: 5.2 mm / 0.205 inch



2-pin carrier terminal block

Color	Item No.	Pack. Unit
gray	2022-1601	50
blue	2022-1604	50

2-pin ground carrier terminal block

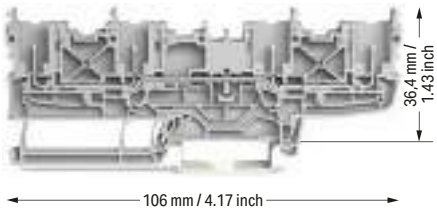
Color	Item No.	Pack. Unit
green-yellow	2022-1607	50

Item-Specific Accessories

End plate; 1 mm thick

orange	2022-1692	100 (25)
gray	2022-1691	100 (25)

Technical Data
690 V / 6 kV / 3 ❶
I_N 24 A (27 A) ❷
Terminal block width: 5.2 mm / 0.205 inch



4-pin carrier terminal block

Color	Item No.	Pack. Unit
gray	2022-1801	50
blue	2022-1804	50

4-pin ground carrier terminal block

Color	Item No.	Pack. Unit
green-yellow	2022-1807	50

Item-Specific Accessories

End plate; 1 mm thick

orange	2022-1892	100 (25)
gray	2022-1891	100 (25)

❶ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs



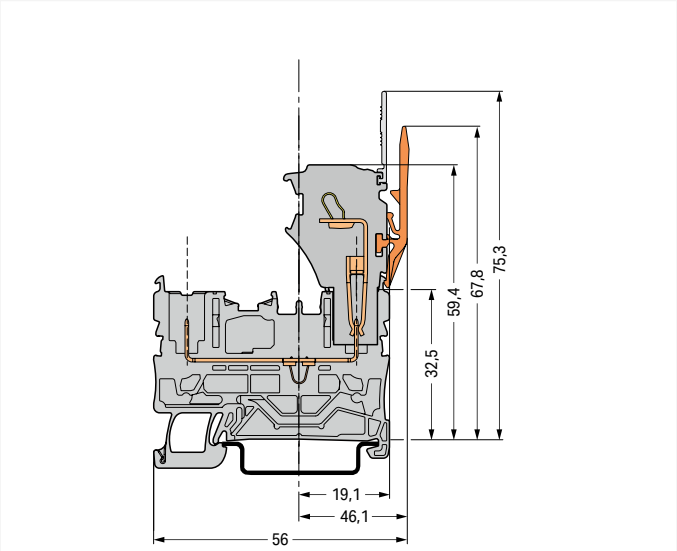
orange	2022-100	100 (25)

1-conductor female plug

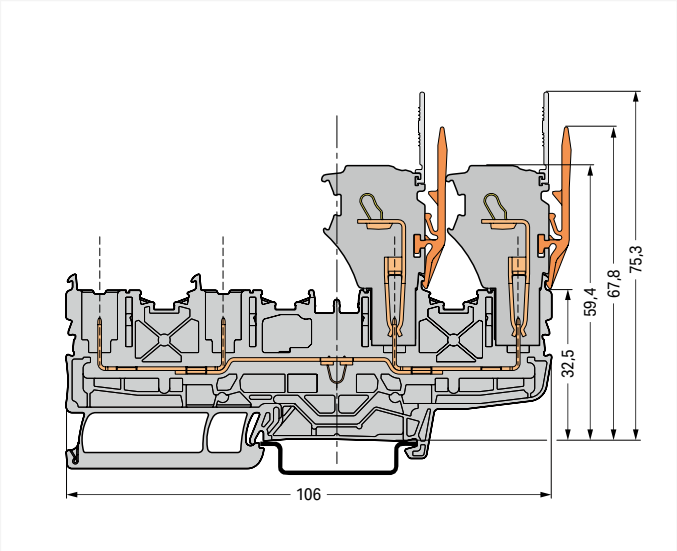


gray	2022-101	200

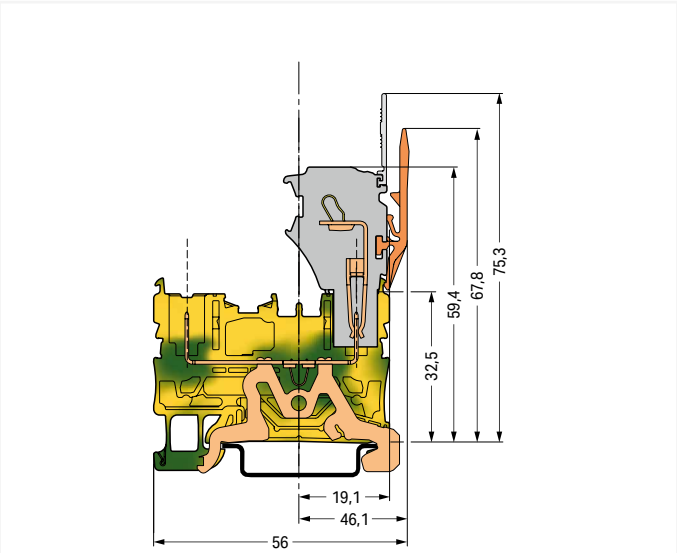
Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®S-SYSTEM
Types of Assembly



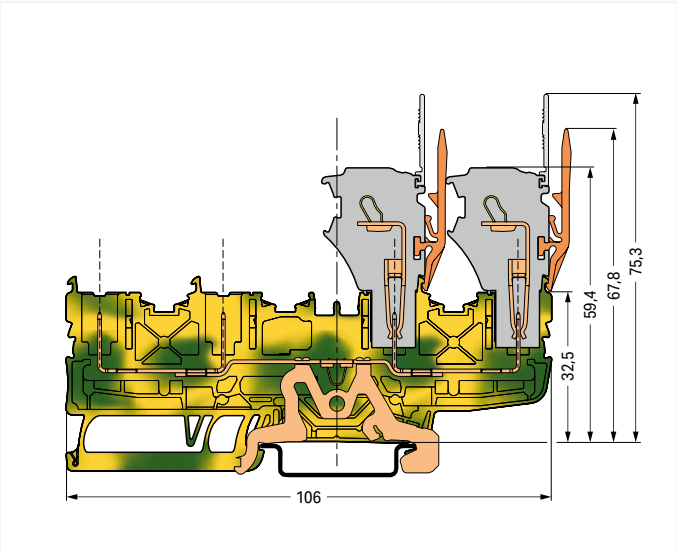
Carrier terminal block



Carrier terminal block



Ground carrier terminal block

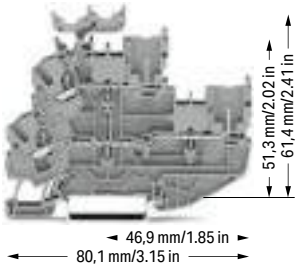


Ground carrier terminal block

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

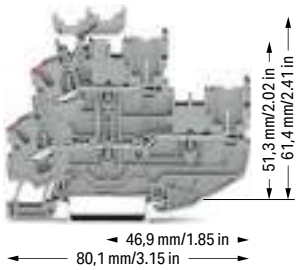


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L/L	2022-2231	50
N/L	2022-2232	50
L/N	2022-2233	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; gray

L/L	2022-2201	50
N/L	2022-2202	50
L/N	2022-2203	50



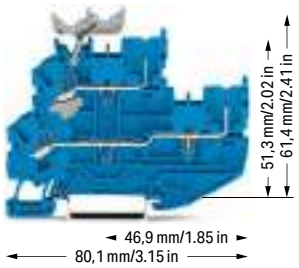
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	2022-2238	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; gray

L	2022-2208	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

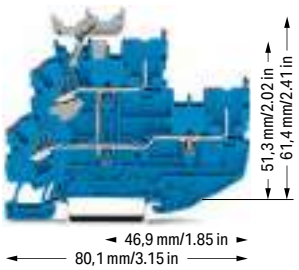


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; blue

	Item No.	Pack. Unit
N/N	2022-2234	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; blue

N/N	2022-2204	50



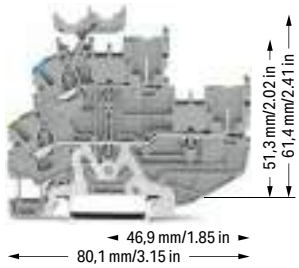
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	2022-2239	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; blue

N	2022-2209	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

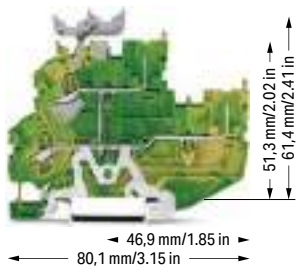


1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; with marker carrier; gray

	Item No.	Pack. Unit
PE/N	2022-2247	50
PE/L	2022-2257	50

1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; without marker carrier; gray

PE/N	2022-2217	50
PE/L	2022-2227	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; with marker carrier; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	2022-2237	50

2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; without marker carrier; internally commoned; green-yellow

PE	2022-2207	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2022-2292	100 (25)
gray	2022-2291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2022-100	100 (25)

Test pin; 1 mm Ø



	859-500	1

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

1-conductor female plug



gray	2022-101	200

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

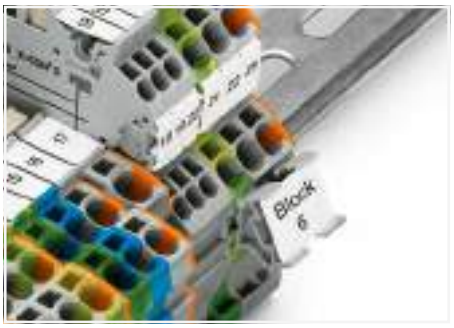
Double-deck marker carrier; pivoting



gray	2002-121	50 (25)



Size comparison:
Double-deck carrier terminal blocks with 3.5 mm and 5.2 mm terminal block widths



Marker carrier (2009-198)

2

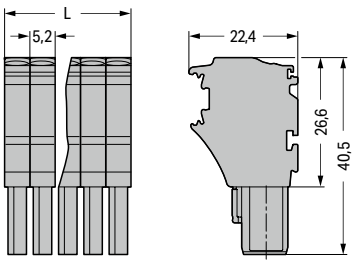
1-Conductor Female Plug X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions (in mm):



L = pole no. x module width

1-conductor female plug; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Pole No.	Item No.	Pack. Unit
1	2022-101	200
2	2022-102	200
3	2022-103	100
4	2022-104	100
5	2022-105	50
6	2022-106	50
7	2022-107	50
8	2022-108	50
9	2022-109	50
10	2022-110	25
11	2022-111	25
12	2022-112	25
13	2022-113	25
14	2022-114	25
15	2022-115	25

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray 2002-171 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray 2002-172 200 (25)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Item no. suffixes
blue …/000-006
orange …/000-012
green-yellow …/000-016

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 2002-115 100 (25)

Locking lever; 4.8 mm wide



orange 2022-142 100 (25)
gray 2022-141 100 (25)

Locking lever; 9.6 mm wide



orange 2022-152 100 (25)
gray 2022-151 100 (25)

Carrier with 6 coding pins; for coding female plugs



orange 2022-100 100 (25)

Strain relief plate; gray



35 mm wide 734-326 100 (25)
6 mm wide 734-327 100 (25)
12.5 mm wide 734-328 100 (25)
25 mm wide 734-329 100 (25)
55 mm wide 734-430 50 (25)
75 mm wide 734-431 50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



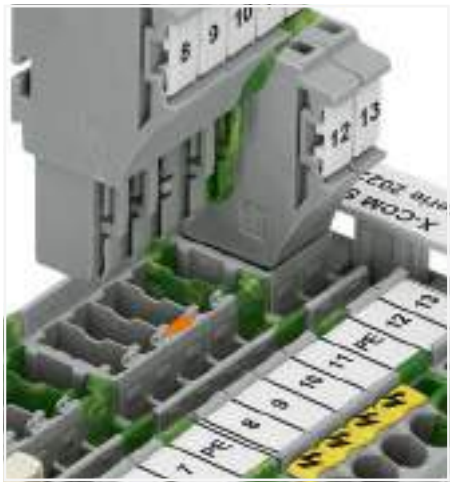
white 2009-115 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5



Coding a female plug: remove coding finger using a suitable tool.

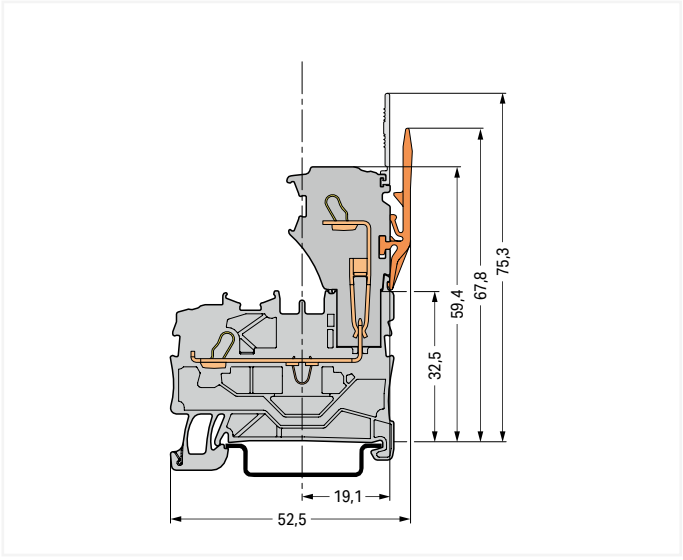


Insert a coding pin (2022-100) into the corresponding location of the carrier terminal block.

Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®S-SYSTEM
Types of Assembly



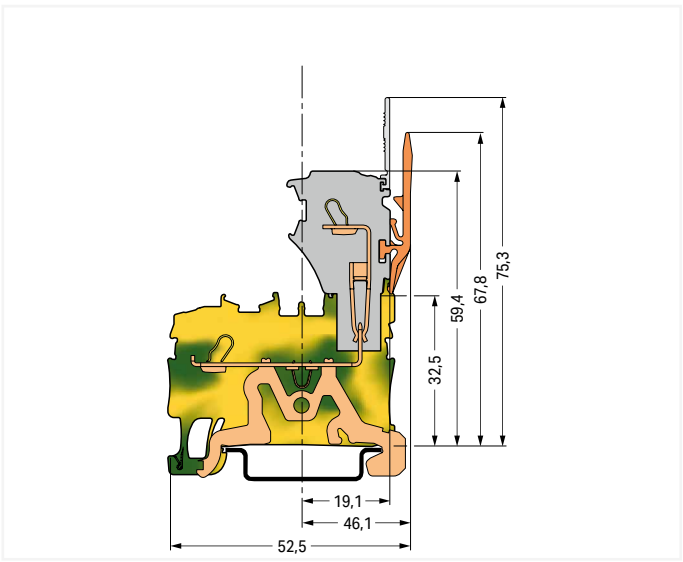
1-conductor female plug
Carrier terminal blocks can be commoned via 2002 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



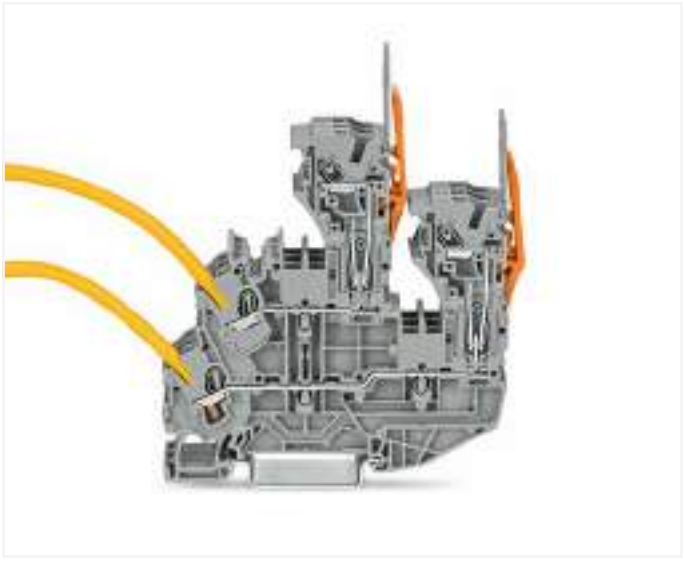
Carrier terminal block



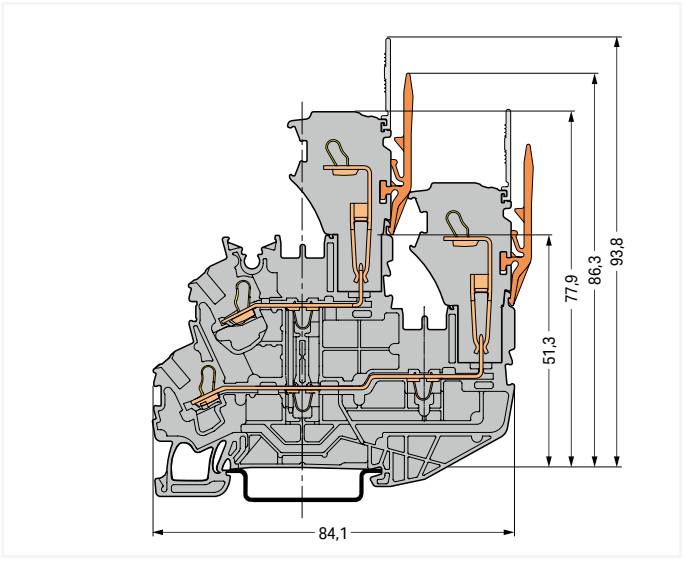
X-COM®S-SYSTEM terminal block assembly



Ground carrier terminal block



1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2002 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



Double-deck carrier terminal block

Female Plug for Self-Assembly X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

1-conductor end module; codable

Color	Item No.	Pack. Unit
gray	2022-181	250
blue	2022-184	250
orange	2022-182	250
green-yellow	2022-187	250

1-conductor center module; codable

gray	2022-171	250
blue	2022-174	250
orange	2022-172	250
green-yellow	2022-177	250

1-conductor base module; with integrated end plate; codable

gray	2022-161	250
blue	2022-164	250
orange	2022-162	250
green-yellow	2022-167	250

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray | 2002-171 | 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray | 2002-172 | 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow | 2002-115 | 100 (25)

Locking lever; 4.8 mm wide



orange	2002-142	100 (25)
gray	2002-141	100 (25)

Locking lever; 9.6 mm wide



orange	2002-152	100 (25)
gray	2002-151	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange | 2022-100 | 100 (25)

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white | 2009-115 | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Customizing Modular Female Plugs
WAGO's modular X-COM®S-SYSTEM female plugs can be customized for applications requiring varying numbers of poles (e.g., when designing prototypes).

Modules and Pole Numbers
A customized X-COM®S-SYSTEM female plug consists of:
- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

Intended Use
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

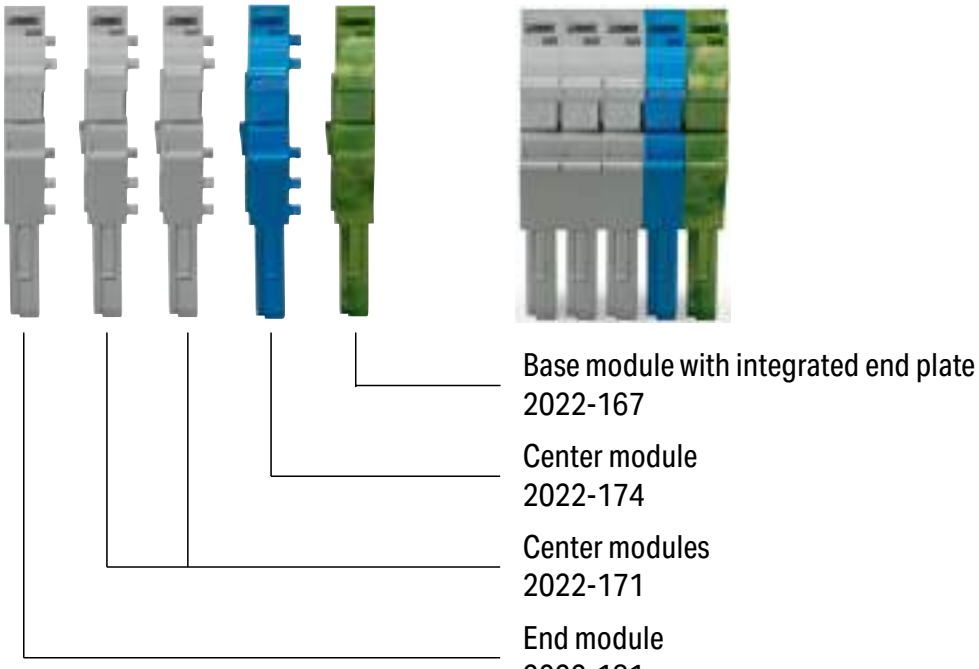
Mounting
The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.


End module


Center module


Base module

Example: 5-Pole, 1-Conductor Female Plug



Pre-Assembled 1-Conductor Female Plug X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-036	100
4	2022-104/000-036	100
5	2022-105/000-036	50
6	2022-106/000-036	50
7	2022-107/000-036	50
8	2022-108/000-036	50
9	2022-109/000-036	50
10	2022-110/000-036	25
11	2022-111/000-036	25
12	2022-112/000-036	25
13	2022-113/000-036	25
14	2022-114/000-036	25
15	2022-115/000-036	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-037	100
4	2022-104/000-037	100
5	2022-105/000-037	50
6	2022-106/000-037	50
7	2022-107/000-037	50
8	2022-108/000-037	50
9	2022-109/000-037	50
10	2022-110/000-037	25
11	2022-111/000-037	25
12	2022-112/000-037	25
13	2022-113/000-037	25
14	2022-114/000-037	25
15	2022-115/000-037	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-038	100
4	2022-104/000-038	100
5	2022-105/000-038	50
6	2022-106/000-038	50
7	2022-107/000-038	50
8	2022-108/000-038	50
9	2022-109/000-038	50
10	2022-110/000-038	25
11	2022-111/000-038	25
12	2022-112/000-038	25
13	2022-113/000-038	25
14	2022-114/000-038	25
15	2022-115/000-038	25

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Locking lever; 4.8 mm wide



orange	2002-142	100 (25)
gray	2002-141	100 (25)

Locking lever; 9.6 mm wide



orange	2002-152	100 (25)
gray	2002-151	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2002-100	100 (25)

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-039	100
4	2022-104/000-039	100
5	2022-105/000-039	50
6	2022-106/000-039	50
7	2022-107/000-039	50
8	2022-108/000-039	50
9	2022-109/000-039	50
10	2022-110/000-039	25
11	2022-111/000-039	25
12	2022-112/000-039	25
13	2022-113/000-039	25
14	2022-114/000-039	25
15	2022-115/000-039	25

1-Conductor Female Plug X-COM®S-SYSTEM; with Lateral Locking Lever and Strain Relief Plate
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V / 6 kV / 3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor female plug; with locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	2022-101/122-000	200
2	2022-102/122-000	100
3	2022-103/123-000	100
4	2022-104/123-000	50
5	2022-105/123-000	50
6	2022-106/123-000	50
7	2022-107/123-000	25
8	2022-108/123-000	25
9	2022-109/123-000	25
10	2022-110/123-000	25
11	2022-111/126-000	25
12	2022-112/126-000	20
13	2022-113/126-000	20
14	2022-114/126-000	10
15	2022-115/127-000	10

1-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	2022-101/132-000	200
2	2022-102/132-000	100
3	2022-103/133-000	100
4	2022-104/133-000	50
5	2022-105/134-000	50
6	2022-106/134-000	50
7	2022-107/135-000	25
8	2022-108/135-000	25
9	2022-109/135-000	25
10	2022-110/135-000	25
11	2022-111/136-000	25
12	2022-112/136-000	20
13	2022-113/136-000	20
14	2022-114/136-000	10
15	2022-115/137-000	10

1-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	2022-101/142-000	200
2	2022-102/142-000	100
3	2022-103/143-000	100
4	2022-104/143-000	50
5	2022-105/144-000	50
6	2022-106/144-000	50
7	2022-107/145-000	25
8	2022-108/145-000	25
9	2022-109/145-000	25
10	2022-110/145-000	25
11	2022-111/146-000	25
12	2022-112/146-000	20
13	2022-113/146-000	20
14	2022-114/146-000	10
15	2022-115/147-000	10

1-conductor female plug; with locking lever; fits into carrier terminal blocks; codable

1 blue	2022-101/122-006	200
1 green-yellow	2022-101/122-016	200

1-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable

1 blue	2022-101/132-006	200
1 green-yellow	2022-101/132-016	200

1-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable

1 blue	2022-101/142-006	200
1 green-yellow	2022-101/142-016	200

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray 2002-171 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray 2002-172 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 2002-115 100 (25)

Carrier with 6 coding pins; for coding female plugs



orange 2022-100 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-115 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Current-carrying capacity curves upon request

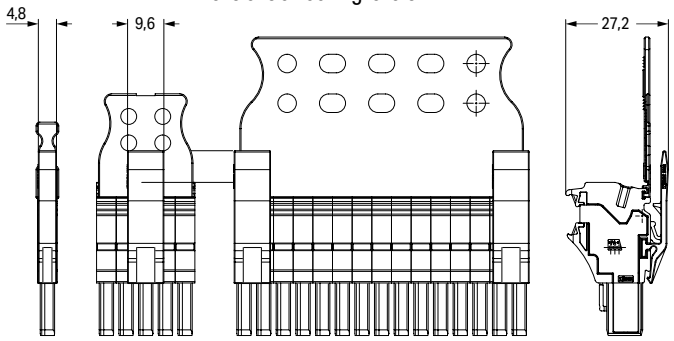
Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

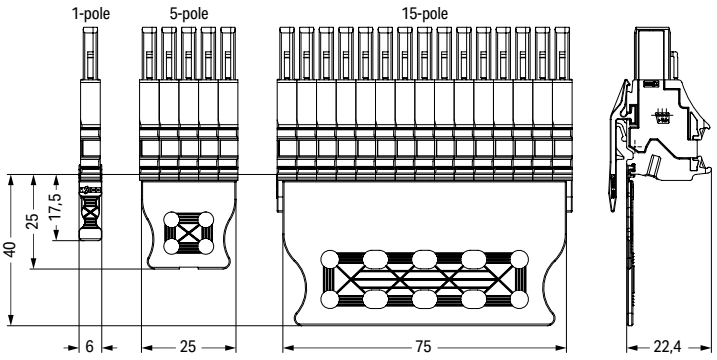
Approvals and corresponding ratings, visit www.wago.com

Strain Relief Plate (SRP), Gray			Assembled	Locking Lever (LL), Gray		Assembled		SRP and LL, Gray Assembled
	SRP			Pole No.	Quantity	1-Way	2-Way	
			Item No. Suffix			Item No. Suffix		Item No. Suffix
Item No.	Color	Width						
734-327	gray	6mm	/132-0xx	1 to 2	1	/122-0xx	–	/142-0xx
734-328	gray	12.5mm	/133-0xx	3 to 4	1	–	/123-0xx	/143-0xx
734-329	gray	25mm	/134-0xx	5 to 6	1	–	/123-0xx	/144-0xx
734-326	gray	35mm	/135-0xx	7 to 10	1	–	/123-0xx	/145-0xx
734-430	gray	55mm	/136-0xx	11 to 14	2	–	/126-0xx	/146-0xx
734-431	gray	75mm	/137-0xx	15	2	–	/127-0xx	/147-0xx

For colored female plugs, the item number suffix “xx” must be replaced by the blue “-006” and the green-yellow “-016” color suffix.

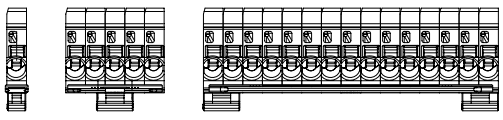
Dimensions of locking levers

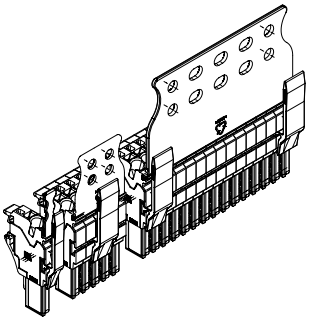




Dimensions of strain relief plates

Description	Color	Item No.	Suffix No.
1-conductor female plug 1- to 15-pole	gray	2022-101	none
	blue	to	/000-006
	green-yellow	2022-115	/000-016



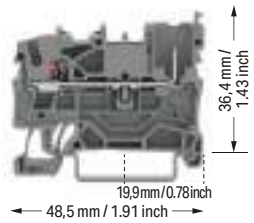


1-Conductor/1-Pin Carrier Terminal Block , 2-Conductor/1-Pin Carrier Terminal Block , 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM; with Push-Button; for Ex ec Applications

2.5 (4) mm²; 2222 Series

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
630 V ❷
I_N 20 A
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



1-conductor/1-pin carrier terminal block; with push-button; suitable for Ex ec applications

Color	Item No.	Pack. Unit
gray	2222-1201/999-953	100
blue	2222-1204/999-953	100
orange	2222-1202/999-953	100

1-conductor/1-pin ground carrier terminal block; suitable for Ex ec applications

Color	Item No.	Pack. Unit
green-yellow	2222-1207/999-953	100

Accessories; item-specific

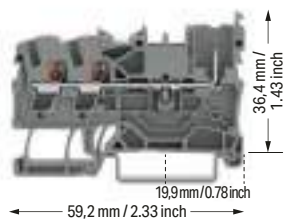
End and intermediate plate; 1 mm thick



orange	2022-1292	100 (25)
gray	2022-1291	100 (25)

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
630 V ❷
I_N 20 A
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



2-conductor/1-pin carrier terminal block; with push-button; suitable for Ex ec applications

Color	Item No.	Pack. Unit
gray	2222-1301/999-953	100
blue	2222-1304/999-953	100
orange	2222-1302/999-953	100

2-conductor/1-pin ground carrier terminal block; suitable for Ex ec applications

Color	Item No.	Pack. Unit
green-yellow	2222-1307/999-953	100

Accessories; item-specific

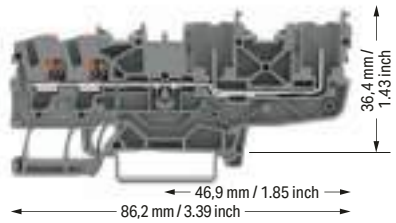
End and intermediate plate; 1 mm thick



orange	2022-1392	100 (25)
gray	2022-1391	100 (25)

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
630 V ❷
I_N 20 A
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



2-conductor/2-pin carrier terminal block; with push-button; suitable for Ex ec applications

Color	Item No.	Pack. Unit
gray	2222-1401/999-953	50
blue	2222-1404/999-953	50
orange	2222-1402/999-953	50

2-conductor/2-pin ground carrier terminal block; suitable for Ex ec applications

Color	Item No.	Pack. Unit
green-yellow	2222-1407/999-953	50

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2022-1492	100 (25)
gray	2022-1491	100 (25)

Accessories; 2222 Series

Appropriate marking systems: WMB/WMB Inline/marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs



orange	2022-100	100 (25)

Test pin; 1 mm Ø



	859-500	1

1-conductor female plug; with shorter locking lever; suitable for Ex ec applications; fits into carrier terminal blocks; codable



gray	2022-103/999-953	100

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

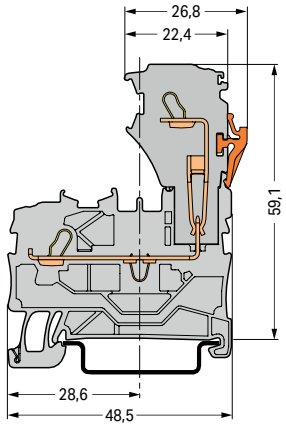
❶ Conductor range: 0.25 … 4 mm² “s+f-st”
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “ec” type of protection
(see Section 15)

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

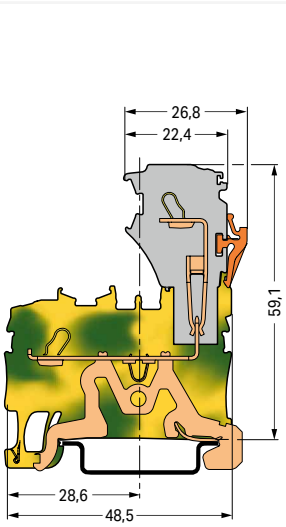
Approvals and corresponding ratings,
visit www.wago.com



Carrier terminal block

630 V = rated voltage for use in Zone 2 hazardous areas, “ec” type of protection

Ex marking:
“Ex” sign and extended item number “…/999-953” are printed on the side of both carrier terminal blocks and female plugs with Ex approval.
Shorter locking lever (factory-mounted) makes accidental disconnection more difficult.



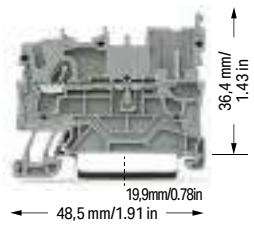
Ground carrier terminal block

1-Conductor/1-Pin Carrier Terminal Block, 2-Conductor/1-Pin Carrier Terminal Block, 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM; for Ex ec Applications

2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor/1-pin carrier terminal block; suitable for Ex ec applications		
Color	Item No.	Pack. Unit
gray	2022-1201/999-953	100
blue	2022-1204/999-953	100

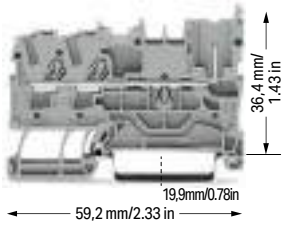
1-conductor/1-pin ground carrier terminal block; suitable for Ex ec applications		
green-yellow	2022-1207/999-953	100

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1292	100 (25)
gray	2022-1291	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/1-pin carrier terminal block; suitable for Ex ec applications		
Color	Item No.	Pack. Unit
gray	2022-1301/999-953	100
blue	2022-1304/999-953	100

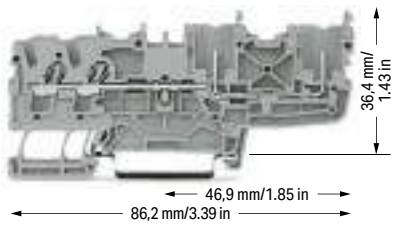
2-conductor/1-pin ground carrier terminal block; suitable for Ex ec applications		
green-yellow	2022-1307/999-953	100

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1392	100 (25)
gray	2022-1391	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/2-pin carrier terminal block; suitable for Ex ec applications		
Color	Item No.	Pack. Unit
gray	2022-1401/999-953	50
blue	2022-1404/999-953	50

2-conductor/2-pin ground carrier terminal block; suitable for Ex ec applications		
green-yellow	2022-1407/999-953	50

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1492	100 (25)
gray	2022-1491	100 (25)

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

1-conductor female plug; with shorter locking lever; suitable for Ex ec applications; fits into carrier terminal blocks; codable

gray	2022-103/999-953	100

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

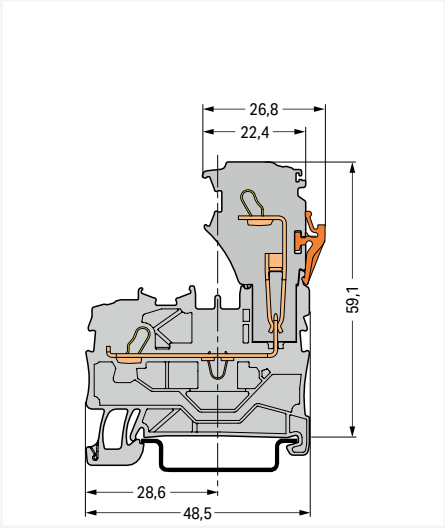
❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection
(see Section 15)

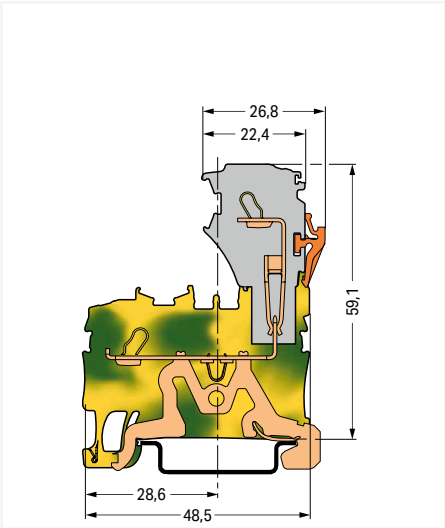
Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

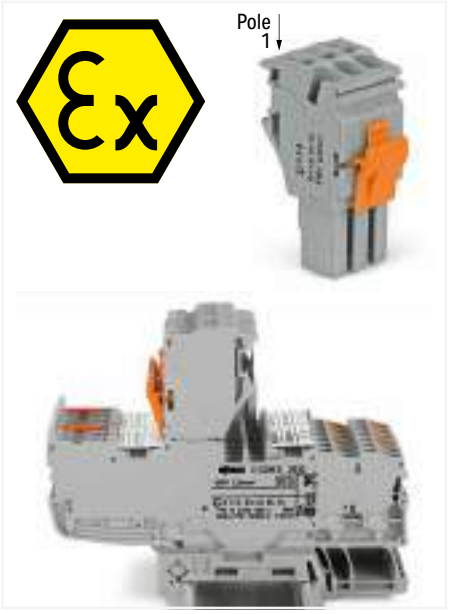
Approvals and corresponding ratings,
visit www.wago.com



Carrier terminal block



Ground carrier terminal block



630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection

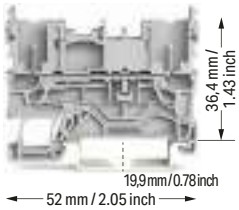
Ex marking:
“Ex” sign and extended item number “…/999-953” are printed on the side of both carrier terminal blocks and female plugs with Ex approval.
Shorter locking lever (factory-mounted) makes accidental disconnection more difficult.

2-Pin Carrier Terminal Block and 4-Pin Carrier Terminal Block X-COM®S-SYSTEM; for Ex ec Applications

2022 Series

2

Technical Data	
630 V ❶	600 V, 20 A
I_N 20 A ❷	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	



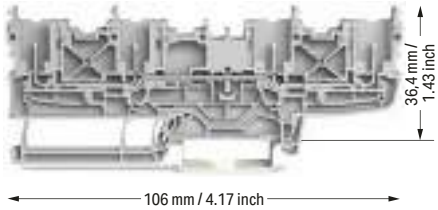
2-pin carrier terminal block; for Ex ec applications		
Color	Item No.	Pack. Unit
gray	2022-1601/999-953	50
blue	2022-1604/999-953	50

2-pin ground carrier terminal block; for Ex ec applications		
green-yellow	2022-1607/999-953	50

Accessories; item-specific

End plate; 1 mm thick			
orange	2022-1692	100 (25)	
gray	2022-1691	100 (25)	

Technical Data	
630 V ❶	600 V, 20 A
I_N 20 A ❷	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	



4-pin carrier terminal block; for Ex ec applications		
Color	Item No.	Pack. Unit
gray	2022-1801/999-953	50
blue	2022-1804/999-953	50

4-pin ground carrier terminal block; for Ex ec applications		
green-yellow	2022-1807/999-953	50

Accessories; item-specific

End plate; 1 mm thick			
orange	2022-1892	100 (25)	
gray	2022-1891	100 (25)	

❶ 630 V = rated voltage for use in Zone 2 hazardous areas, "nA" type of protection (see Section 15)

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel			
white	2009-110	1	

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable			
white	2009-115	1	

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
plain	793-5501	5	

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray			
2-way	2002-402	25	
3-way	2002-403	25	
4-way	2002-404	25	
5-way	2002-405	25	
6-way	2002-406	25	
7-way	2002-407	25	
8-way	2002-408	25	
9-way	2002-409	25	
10-way	2002-410	25	

Push-in type jumper bar; insulated; I_N 25 A; light gray			
1 to 3	2002-433	25	
1 to 4	2002-434	25	
1 to 5	2002-435	25	
1 to 6	2002-436	25	
1 to 7	2002-437	25	
1 to 8	2002-438	25	
1 to 9	2002-439	25	
1 to 10	2002-440	25	

Delta jumper; insulated; I_N = I_N terminal block; light gray			
1-2 3-4 5-6	2002-406/020-000	25	

Star point jumper; insulated; I_N = I_N terminal block; light gray			
1-3-5	2002-405/011-000	25	

Continuous jumper; insulated; I_N 25 A, light gray			
2-way	2002-400	25	

Staggered jumper; insulated; I_N 25 A; light gray			
2-way	2002-472	25	
3-way	2002-473	25	
4-way	2002-474	25	
5-way	2002-475	25	
6-way	2002-476	25	
7-way	2002-477	25	
8-way	2002-478	25	
9-way	2002-479	25	
10-way	2002-480	25	
11-way	2002-481	25	
12-way	2002-482	25	

Continuous jumper; insulated; I_N 25 A; light gray			
1 to 3	2002-423	25	
1 to 4	2002-424	25	

Continuous jumper; insulated; I_N 25 A, light gray			
3-way	2002-413	25	
5-way	2002-415	25	

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A			
L = 60 mm	2009-412	100 (10)	
L = 110 mm	2009-414	100 (10)	
L = 250 mm	2009-416	100 (10)	

Carrier with 6 coding pins; for coding female plugs			
orange	2022-100	100 (25)	

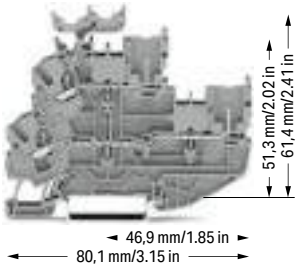
1-conductor female plug			
gray	2022-101	200	

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®S-SYSTEM; for Ex ec Applications

2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V; 20 A
I_N 20 A	600 V; 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

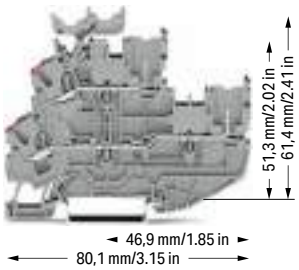


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; suitable for Ex ec applications; gray

	Item No.	Pack. Unit
L/L	2022-2231/999-953	50
N/L	2022-2232/999-953	50
L/N	2022-2233/999-953	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; for Ex ec applications; gray

L/L	2022-2201/999-953	50
N/L	2022-2202/999-953	50
L/N	2022-2203/999-953	50



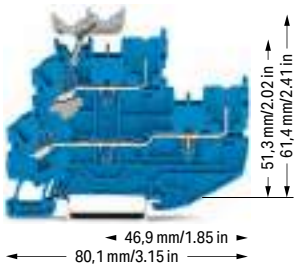
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; for Ex ec applications; gray

	Item No.	Pack. Unit
L	2022-2238/999-953	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; for Ex ec applications; gray

L	2022-2208/999-953	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V; 20 A
I_N 20 A	600 V; 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

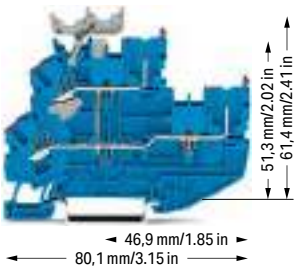


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; suitable for Ex ec applications; blue

	Item No.	Pack. Unit
N/N	2022-2234/999-953	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; for Ex ec applications; blue

N/N	2022-2204/999-953	50



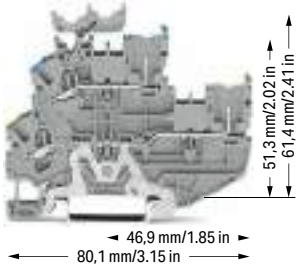
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry;; for Ex ec applications; blue

	Item No.	Pack. Unit
N	2022-2239/999-953	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; for Ex ec applications; blue

N	2022-2209/999-953	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V; 20 A
I_N 20 A	600 V; 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

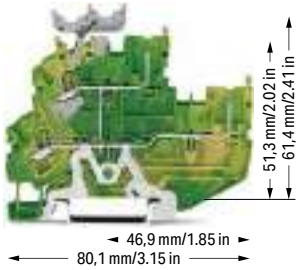


1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; with marker carrier; for Ex ec applications; gray

	Item No.	Pack. Unit
PE/N	2022-2247/999-953	50
PE/L	2022-2257/999-953	50

1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; without marker carrier; for Ex ec applications; gray

PE/N	2022-2217/999-953	50
PE/L	2022-2227/999-953	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; with marker carrier; internally commoned; for Ex ec applications; green-yellow

	Item No.	Pack. Unit
PE	2022-2237/999-953	50

2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; without marker carrier; internally commoned; for Ex ec applications; green-yellow

PE	2022-2207/999-953	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, "nA" type of protection
(see Section 15)
with double-deck vertical jumper,

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 182
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick



orange	2022-2292	100 (25)
gray	2022-2291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2022-100	100 (25)

Test pin; 1 mm Ø



	859-500	1

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

1-conductor female plug; with shorter locking lever; suitable for Ex ec applications; fits into carrier terminal blocks; codable



gray	2022-103/999-953	100

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

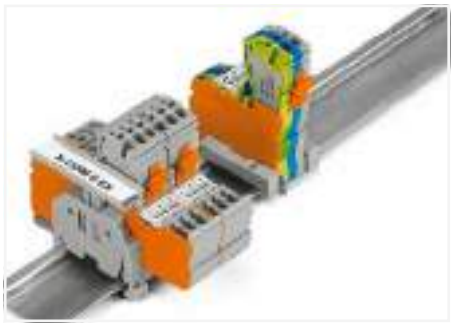
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Double-deck marker carrier; pivoting



gray	2002-121	50 (25)



Group marking with height-adjustable group marker carrier (2009-163)

2

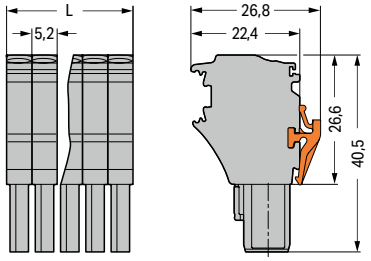
1-Conductor Female Plug X-COM®S-SYSTEM; for Ex ec Applications
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions (in mm):



L = pole no. x module width

1-conductor female plug; with shorter locking lever; suitable for Ex ec applications; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Pole No.	Item No.	Pack. Unit
2	2022-102/999-953	200
3	2022-103/999-953	100
4	2022-104/999-953	100
5	2022-105/999-953	50
6	2022-106/999-953	50
7	2022-107/999-953	50
8	2022-108/999-953	50

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray 2002-171 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray 2002-172 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 2002-115 100 (25)

Carrier with 6 coding pins; for coding female plugs



orange 2022-100 100 (25)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, "nA" type of protection
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-115 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

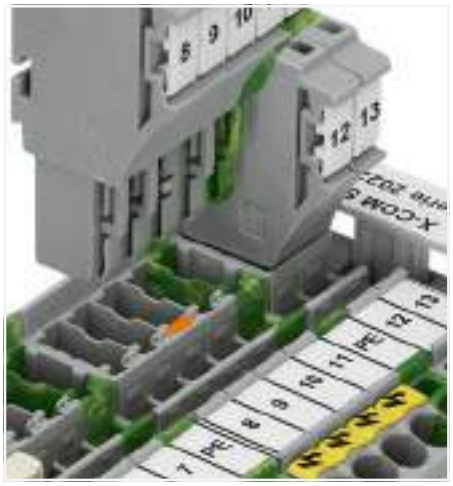
plain 793-5501 5



Each female plug is supplied with a locking lever.



Coding a female plug: remove coding finger using a suitable tool.



Insert a coding pin (2022-100) into the corresponding location of the carrier terminal block.

PUSH-IN CAGE CLAMP®

Pre-Assembled 1-Conductor Female Plug X-COM®S-SYSTEM; for Ex ec Applications
2.5 (4) mm²; 2022 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection (see Section 15)

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

2

1-conductor female plug; with shorter locking lever; with ground base module (green-yellow); fits into carrier terminal blocks; codable		
Pole No.	Item No.	Pack. Unit
3	2022-103/000-038/999-953	100
4	2022-104/000-038/999-953	100
5	2022-105/000-038/999-953	50
6	2022-106/000-038/999-953	50

1-conductor female plug; with shorter locking lever; with ground end module (green-yellow); fits into carrier terminal blocks; codable		
Pole No.	Item No.	Pack. Unit
3	2022-103/000-039/999-953	100
4	2022-104/000-039/999-953	100
5	2022-105/000-039/999-953	50
6	2022-106/000-039/999-953	50



Ex marking:
“Ex” sign and extended item number “…/999-953” are printed on the side of both carrier terminal blocks and female plugs with Ex approval.
Shorter locking lever (factory-mounted) makes accidental disconnection more difficult.

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Carrier with 6 coding pins; for coding female plugs



orange	2002-100	100 (25)

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

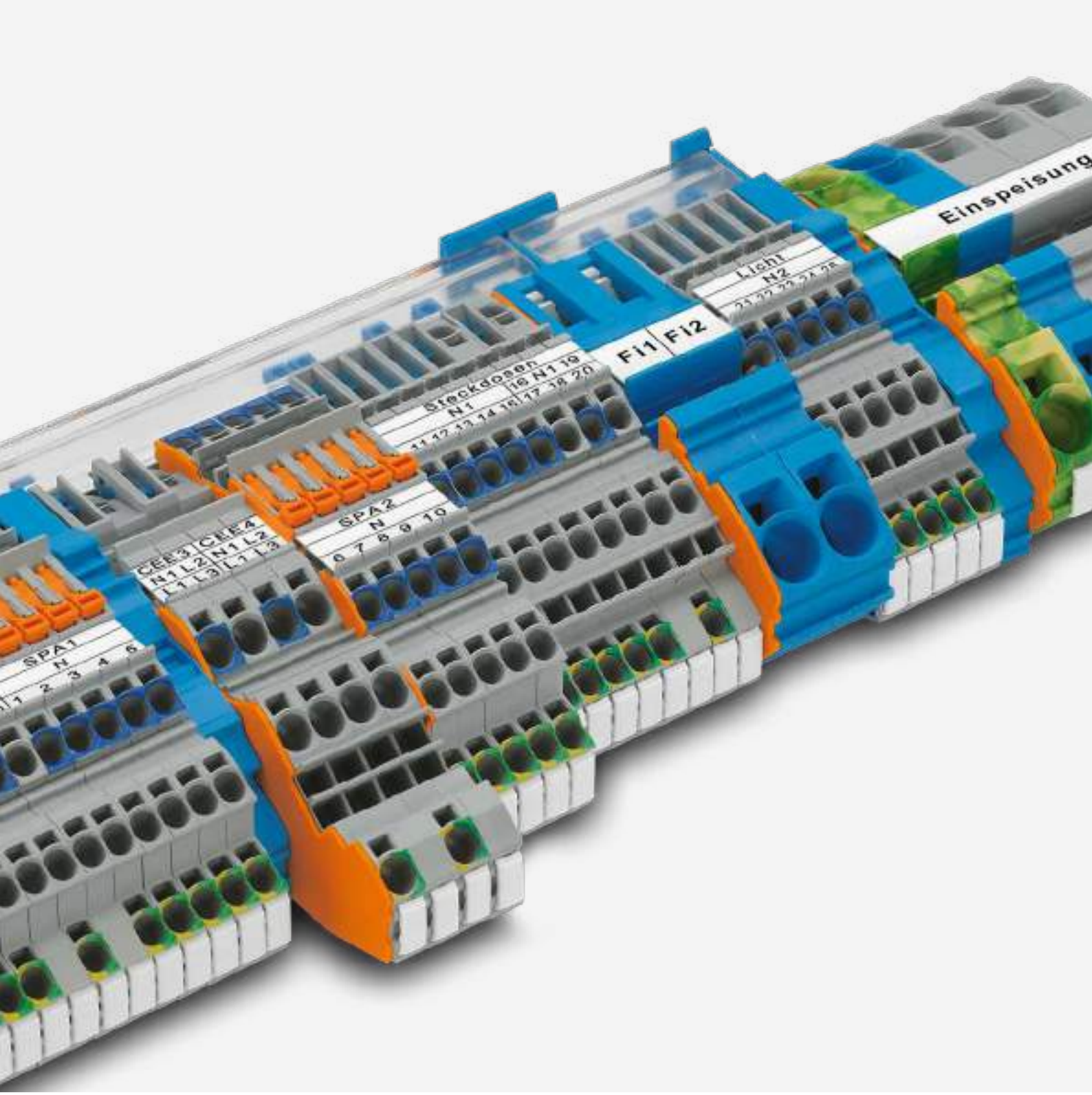
WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5



WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S

PUSH-IN CAGE CLAMP®

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S

			Page
	**Multilevel Installation Terminal Blocks; with Operating Slot and Push-Button; with N-Disconnect Slide Link** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2203 Series 2203 Series	240 248
	**Multilevel Installation Terminal Blocks; with Operating Slot and Push-Button; with Internal N-Disconnect** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2003 Series	256
	**Multilevel Installation Terminal Blocks; with Internal N-Disconnection** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2203 Series 2203 Series	242 250
	**Multilevel Installation Terminal Blocks; with Internal N-Disconnection** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2003 Series	258
	**Double-Fuse Plugs on Carrier Terminal Blocks**	2003 Series	262
	**Multilevel Installation Terminal Blocks; with Operating Slot and Push-Button; with N-Disconnect Slide Link** 0.5 … 4 (6) mm² (20 … 10 AWG)	2205 Series 2205 Series	246 254
	**Multilevel Installation Terminal Blocks; with N-Disconnect Slide Links** 0.5 … 4 (6) mm² (20 … 10 AWG)	2005 Series	264
	**N-Disconnect Terminal Blocks and Power Distribution Disconnect Terminal Blocks** 0.5 … 16 (25 “f-st”) mm² (20 … 4 AWG)	2206/2216 Series	266
	**N-Disconnect Terminal Blocks and Power Distribution Disconnect Terminal Blocks** 0.5 … 16 (25 “f-st”) mm² (20 … 4 AWG)	2002/2006/2010/2016 Series	268
	**Supply Terminal Blocks for Distribution Boxes** 0.5 … 16 (25 “f-st”) mm² (20 … 4 AWG)	2016 Series	270
	**Board Set**	821 Series	272

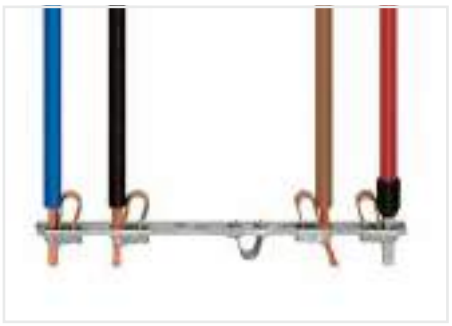
Installation Rail-Mount Terminal Blocks TOPJOB® S
Installation



Inserting a conductor via push-in termination.
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.



Inserting a conductor via operating tool.
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.



All conductor types at a glance



Mounting busbars on busbar carriers: Insert busbar ends onto large busbar carriers (2009-305) or onto supply terminal blocks with an integrated busbar carrier.



Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.



Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.



Inserting separator plate removed from N-disconnect terminal block.



Touch-proof N-busbar via inserted separator plate



Perforations make it possible to fit the carrier to all Installation Rail-Mount Terminal Blocks TOPJOB® S using a single part.



The compact busbar carrier (1.5 mm thick), which is placed every 200 mm, provides additional busbar support for longer assemblies.



The busbar transparent cover (Item No. 777-303) protects the busbar against accidental contact and makes it easy to see which terminal blocks are connected to the busbar.



Operating a disconnect slide link with an operating tool (3.5 mm blade width)
Item number (operating tool): 2009-309, 2009-310, 210-658 or 210-720



Push-in CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



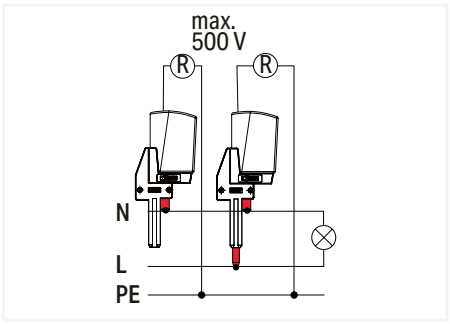
fine-stranded "f-st", also with tinned single strands



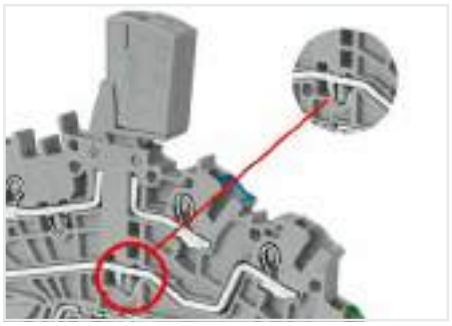
N-potential disconnection via N-knife disconnect within a terminal block assembly without a busbar.



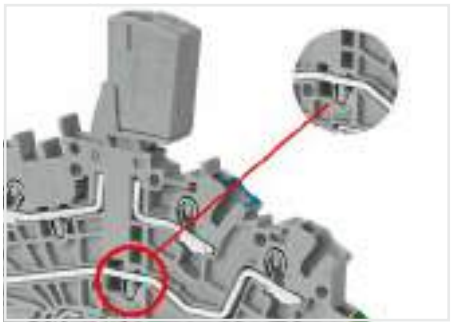
For multilevel installation terminal blocks with internal N-disconnection, test plug adapters can be inserted into the free vertical test slot when the N-potential is disconnected.



Test plug adapters for both individual N-potential measurement and insulation resistance measurement of the connected N- and L-potentials are available.



Multilevel installation terminal block fitted with an N/L-test plug adapter for quick and safe insulation resistance measurement of the connected N- and L-potentials



Multilevel installation terminal block fitted with an N-test plug adapter for insulation resistance measurement of the N-potential



Single-fuse plugs can be used in combination with 1 mm thick end and intermediate plates on carrier terminal blocks without an N-knife disconnect.



Double-fuse plugs with 5 x 25 mm glass cartridge fuses can be used on carrier terminal blocks without an N-knife disconnect in standard terminal block width.



Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.



Insert the operating tool between the staggered jumpers, then lift up the jumper.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

Multilevel Installation Terminal Block TOPJOB® S; with Operating Slot and Push-Button; with N-Disconnect Slide Link

2.5 (4) mm²; 2203 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (29 A) ❷	
400 V/6 kV/3; 24 A (29 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; with N-disconnect slide link; gray

	Item No.	Pack. Unit
◯ NT/L/PE	2203-7541	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	
I_N 24 A (31 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
◯ L/L	2203-7542	50
◯ N/L	2203-7549	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (31 A) ❷	
400 V/6 kV/3; 24 A (31 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
◯ N/L/PE	2203-7546	50
◯ L/L/PE	2203-7545	50



Multilevel installation terminal block; with operating slot and push-button; with N-disconnect slide link; gray

	Item No.	Pack. Unit
◯ NT/L	2203-7540	50
◯ LT/L	2203-7559	50



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
◯ L	2203-7550	50
◯ N	2203-7551	50

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2203-7692	100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue	2009-304	100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue	2009-305	25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A	210-133	1

Busbar cover; 1000 mm long



transparent	777-303	1

1-conductor N-disconnect terminal block; I_N 76 A; 16 mm²; 12 mm wide



blue	2016-7714	20

1-conductor N-disconnect terminal block; I_N 125 A; 35 mm²; 16 mm wide



blue	785-613	15

2-conductor supply terminal block for distribution boxes; I_N 76 A; 16 mm²; 12 mm wide



gray	2016-7601	20
blue	2016-7604	20

2-conductor through terminal block; I_N 125 A; 35 mm²; 16 mm wide



gray	785-601	15
blue	785-604	15

2-conductor ground terminal block; 16 mm²; 12 mm wide



green-yellow	2016-7607	20

2-conductor ground terminal block; 35 mm²; 16 mm wide



green-yellow	785-607	15

Connector; for busbar; 2.5 … 16 mm²



blue	210-281	100 (50)

Connector; for busbar; 2.5 … 35 mm²



silver-colored	209-105	50

Lock-out; prevents reclosing of slide link; snap-on type



orange	2003-7300	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-310	50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft



	210-720	1

TOPJOB® S – Terminal Blocks for Every Application

- Push-in termination of solid conductors in small distribution boards saves time and money.
- Operating errors can be prevented as all TOPJOB® S Terminal Blocks for building installations are equipped with push-in connection technology.
- Using standard accessories reduces order processing and inventory costs.
- The busbar position is the same, making TOPJOB® S Installation Terminal Blocks compatible with standard TOPJOB® Installation Terminal Blocks.

For constructing and operating power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation resistance measurement is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion before install can be used in dry, pollution-free locations.

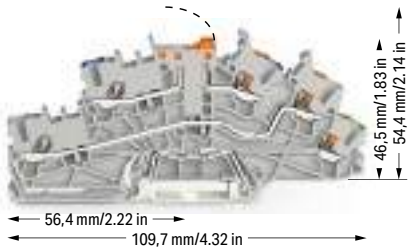
According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

Multilevel Installation Terminal Block TOPJOB® S; with Operating Slot and Push-Button; with Internal N-Disconnect

2.5 (4) mm²; 2203 Series

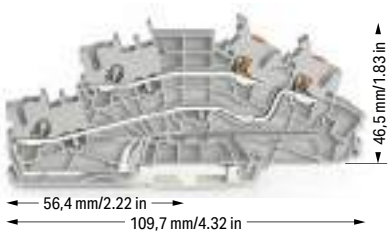
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 22 A (27 A) ❷	
400 V/6 kV/3; 22 A (27 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; with pivoting knife disconnect; gray

	Item No.	Pack. Unit
NT/L/PE	2203-6541	50
LT/L/PE	2203-6544	50

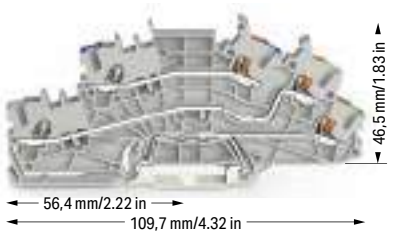
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	
I_N 24 A (31 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
L/L	2203-6542	50
N/L	2203-6549	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (31 A) ❷	
400 V/6 kV/3; 24 A (31 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
N/L/PE	2203-6546	50
L/L/PE	2203-6545	50

Item-Specific Accessories

N/L-test plug adapter; for vertical test slot; gray

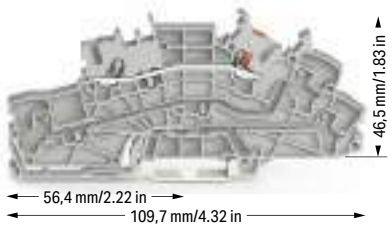


2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray



1-pole	2003-500	100 (25)



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
L	2203-6550	50
N	2203-6551	50

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2203-6692	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-310	50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft

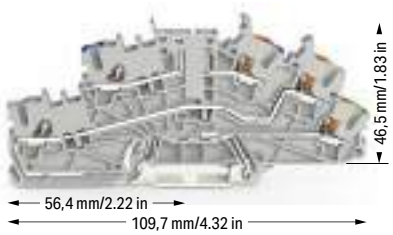


	210-720	1

Multilevel Installation Terminal Block TOPJOB® S; with Operating Slot and Push-Button
2.5 (4) mm²; 2203 Series

3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 22 A (27 A) ❷	
400 V/6 kV/3; 22 A (27 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



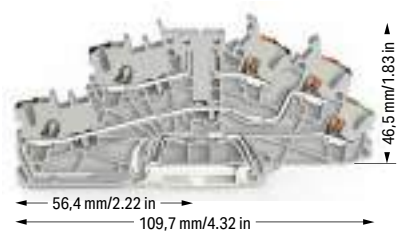
Multilevel installation terminal block; with operating slot and push-button; carrier terminal block without knife disconnect; gray

	Item No.	Pack. Unit
○ N/L/PE	2203-6540	50

Multilevel installation terminal block; carrier terminal block; with operating slot and push-button without knife disconnect; blue middle-deck; green-yellow lower-deck printing; gray

	Item No.	Pack. Unit
○ L/N/PE	2203-6561	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 22 A (27 A) ❷	
400 V/6 kV/3; 22 A (27 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with operating slot and push-button; carrier terminal block without knife disconnect; black upper-deck, brown middle-deck, green-yellow lower-deck printing

	Item No.	Pack. Unit
○ P2/P1/PE	2203-6543	50

Multilevel installation terminal block; with operating slot and push-button; carrier terminal block without knife disconnect; brown upper-deck, black middle-deck, green-yellow lower-deck printing

	Item No.	Pack. Unit
○ P1/P2/PE	2203-6560	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential
Maximum current depends on accessories used.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

N/L-test plug adapter; for vertical test slot; gray



2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray



1-pole	2003-500	100 (25)

End and intermediate plate; 0.8 mm thick



orange	2203-6692	100 (25)

Fuse plug with pull-tab; for (5 x 20) mm glass cartridge fuse
Electrical ratings are given by the fuse.



gray	2004-911	50

End and intermediate plate; only for use with fuse plugs; 1 mm thick



orange	2203-6693	100 (25)

Double-fuse plug; for (5 x 20) mm glass cartridge fuse
Electrical ratings are given by the fuse.



gray	2003-911	25
gray	2003-911/1000-923	25

End and intermediate plate; 1 mm thick; only for use with double-fuse plugs



orange	2203-6694	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



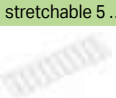
white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm



plain	793-5501	5

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



2009-309 50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



2009-310 50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft

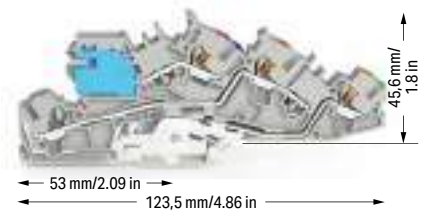


210-720 1

Multilevel Installation Terminal Block TOPJOB® S; with Operating Slot and Push-Button; with N-Disconnect Slide Link

4 (6) mm²; 2205 Series

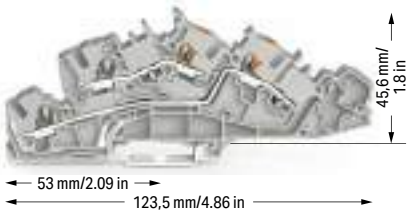
Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V/4 kV/3; 31 A (35 A) ❷	
400 V/6 kV/3; 31 A (35 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with operating slot and push-button; with N-disconnect slide link; gray

	Item No.	Pack. Unit
○ NT/L/PE	2205-7541	50

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
400 V/6 kV/3 ❷	
I_N 32 A (40 A)	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
○ L/L	2205-7542	50
○ N/L	2205-7549	50

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V/4 kV/3; 32 A (40 A) ❷	
400 V/6 kV/3; 32 A (40 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with operating slot and push-button; gray

	Item No.	Pack. Unit
○ N/L/PE	2205-7546	50
○ L/L/PE	2205-7545	50

Accessories; 2205 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2205-7692	100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue	2009-304	100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue	2009-305	25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A	210-133	1

Busbar cover; 1000 mm long



transparent	777-303	1

1-conductor N-disconnect terminal block; I_N 76 A; 16 mm²; 12 mm wide



blue	2016-7714	20

1-conductor N-disconnect terminal block; I_N 125 A; 35 mm²; 16 mm wide



blue	785-613	15

2-conductor supply terminal block for distribution boxes; I_N 76 A; 16 mm²; 12 mm wide



gray	2016-7601	20
blue	2016-7604	20

2-conductor through terminal block; I_N 125 A; 35 mm²; 16 mm wide



gray	785-601	15
blue	785-604	15

2-conductor ground terminal block; 16 mm²; 12 mm wide



green-yellow	2016-7607	20

2-conductor ground terminal block; 35 mm²; 16 mm wide



green-yellow	785-607	15

Connector; for busbar; 2.5 … 16 mm²



blue	210-281	100 (50)

Connector; for busbar; 2.5 … 35 mm²



silver-colored	209-105	50

Lock-out; prevents reclosing of slide link; snap-on type



orange	2005-7300	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2004-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-310	50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft



	210-720	1

❶ Conductor range: 0.5 … 6 mm² “s+f-st”
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion before install can be used in dry, pollution-free locations.

According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

Multilevel Installation Terminal Block TOPJOB® S; with Push-Button; with N-Disconnect Slide Link

2.5 (4) mm²; 2203 Series

3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (29 A) ❷	
400 V/6 kV/3; 24 A (29 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with push-button; with N-disconnect slide link; gray

	Item No.	Pack. Unit
◯ NT/L/PE	2203-7641	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	
I_N 24 A (31 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
◯ L/L	2203-7642	50
◯ N/L	2203-7649	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (31 A) ❷	
400 V/6 kV/3; 24 A (31 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



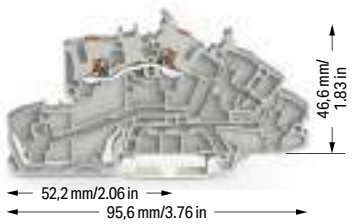
Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
◯ N/L/PE	2203-7646	50
◯ L/L/PE	2203-7645	50



Multilevel installation terminal block; with push-button; with N-disconnect slide link; gray

	Item No.	Pack. Unit
◯ NT/L	2203-7640	50
◯ LT/L	2203-7659	50



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
◯ L	2203-7650	50
◯ N	2203-7651	50

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2203-7692	100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue	2009-304	100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue	2009-305	25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A	210-133	1

Busbar cover; 1000 mm long



transparent	777-303	1

1-conductor N-disconnect terminal block; I_N 76 A; 16 mm²; 12 mm wide



blue	2016-7714	20

1-conductor N-disconnect terminal block; I_N 125 A; 35 mm²; 16 mm wide



blue	785-613	15

2-conductor supply terminal block for distribution boxes; I_N 76 A; 16 mm²; 12 mm wide



gray	2016-7601	20
blue	2016-7604	20

2-conductor through terminal block; I_N 125 A; 35 mm²; 16 mm wide



gray	785-601	15
blue	785-604	15

2-conductor ground terminal block; 16 mm²; 12 mm wide



green-yellow	2016-7607	20

2-conductor ground terminal block; 35 mm²; 16 mm wide



green-yellow	785-607	15

Connector; for busbar; 2.5 … 16 mm²



blue	210-281	100 (50)

Connector; for busbar; 2.5 … 35 mm²



silver-colored	209-105	50

Lock-out; prevents reclosing of slide link; snap-on type



orange	2003-7300	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-310	50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft



	210-720	1

TOPJOB® S – Terminal Blocks for Every Application

- Push-in termination of solid conductors in small distribution boards saves time and money.
- Operating errors can be prevented as all TOPJOB® S Terminal Blocks for building installations are equipped with push-in connection technology.
- Using standard accessories reduces order processing and inventory costs.
- The busbar position is the same, making TOPJOB® S Installation Terminal Blocks compatible with standard TOPJOB® Installation Terminal Blocks.

For constructing and operating power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation resistance measurement is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion before install can be used in dry, pollution-free locations.

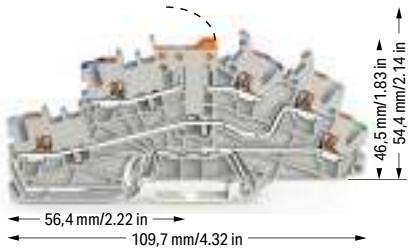
According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

Multilevel Installation Terminal Block TOPJOB® S; with Push-Button; with Internal N-Disconnect
2.5 (4) mm²; 2203 Series

3

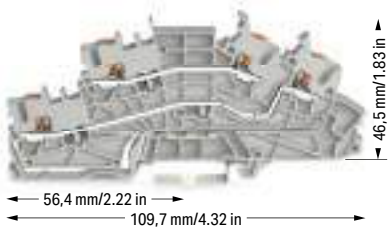
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 22 A (27 A) ❷	
400 V/6 kV/3; 22 A (27 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with push-button; with pivoting knife disconnect; gray

	Item No.	Pack. Unit
NT/L/PE	2203-6641	50
LT/L/PE	2203-6644	50

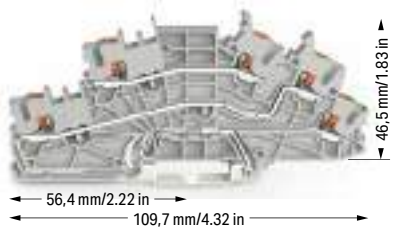
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	
I_N 24 A (31 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
L/L	2203-6642	50
N/L	2203-6649	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (31 A) ❷	
400 V/6 kV/3; 24 A (31 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
N/L/PE	2203-6646	50
L/L/PE	2203-6645	50

Item-Specific Accessories

N/L-test plug adapter; for vertical test slot; gray

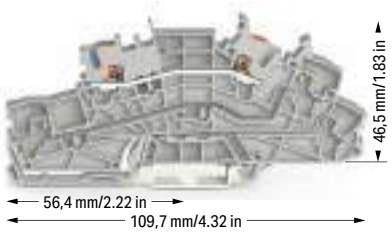


2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray



1-pole	2003-500	100 (25)



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
L	2203-6650	50
N	2203-6651	50

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2203-6692	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-310	50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft



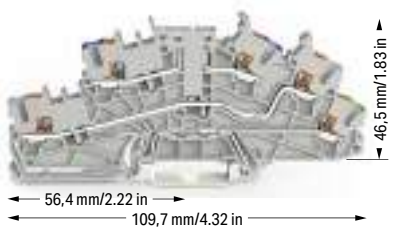
	210-720	1

3

Multilevel Installation Terminal Block TOPJOB® S; with Push-Button
2.5 (4) mm²; 2203 Series

3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 22 A (27 A) ❷	
400 V/6 kV/3; 22 A (27 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



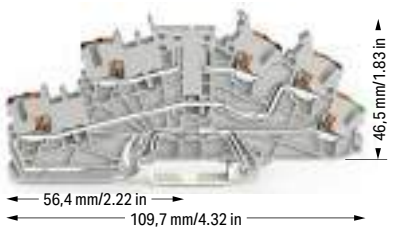
Multilevel installation terminal block; with push-button; carrier terminal block without knife disconnect; gray

	Item No.	Pack. Unit
○ N/L/PE	2203-6640	50

Multilevel installation terminal block; carrier terminal block; with push-button without knife disconnect; blue middle-deck; green-yellow lower-deck printing; gray

○ L/N/PE	2203-6661	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 22 A (27 A) ❷	
400 V/6 kV/3; 22 A (27 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with push-button; carrier terminal block without knife disconnect; black upper-deck, brown middle-deck, green-yellow lower-deck printing

	Item No.	Pack. Unit
○ P2/P1/PE	2203-6643	50

Multilevel installation terminal block; with push-button; carrier terminal block without knife disconnect; brown upper-deck, black middle-deck, green-yellow lower-deck printing

○ P1/P2/PE	2203-6660	50

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

N/L-test plug adapter; for vertical test slot; gray



2-pole | 2003-499 | 100 (25)

N-test plug adapter; for vertical test slot; gray



1-pole | 2003-500 | 100 (25)

End and intermediate plate; 0.8 mm thick



orange | 2203-6692 | 100 (25)

Fuse plug with pull-tab; for (5 x 20) mm glass cartridge fuse
Electrical ratings are given by the fuse.



gray | 2004-911 | 50

End and intermediate plate; only for use with fuse plugs; 1 mm thick



orange | 2203-6693 | 100 (25)

Double-fuse plug; for (5 x 20) mm glass cartridge fuse
Electrical ratings are given by the fuse.



gray | 2003-911 | 25

End and intermediate plate; 1 mm thick; only for use with double-fuse plugs



orange | 2203-6694 | 100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2 | 2002-400 | 25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential
Maximum current depends on accessories used.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2203 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Test plug adapter; for 4 mm Ø test plug



gray | 2009-174 | 100 (25)

Testing tap; for max. 2.5 mm²



gray | 2009-182 | 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white | 2009-115 | 1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain | 793-5501 | 5

Accessories; 2203 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



2009-309 50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



2009-310 50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft



210-720 1

Multilevel Installation Terminal Block TOPJOB® S; with Push-Button; with N-Disconnect Slide Link

4 (6) mm²; 2205 Series

3

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V/4 kV/3; 31 A (35 A) ❷	
400 V/6 kV/3; 31 A (35 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with push-button; with N-disconnect slide link; gray

	Item No.	Pack. Unit
○ NT/L/PE	2205-7641	50

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
400 V/6 kV/3 ❷	
I_N 32 A (40 A)	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
○ L/L	2205-7642	50
○ N/L	2205-7649	50

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V/4 kV/3; 32 A (40 A) ❷	
400 V/6 kV/3; 32 A (40 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with push-button; gray

	Item No.	Pack. Unit
○ N/L/PE	2205-7646	50
○ L/L/PE	2205-7645	50

Accessories; 2205 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	2205-7692	100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue	2009-304	100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue	2009-305	25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A	210-133	1

Busbar cover; 1000 mm long



transparent	777-303	1

1-conductor N-disconnect terminal block; I_N 76 A; 16 mm²; 12 mm wide



blue	2016-7714	20

1-conductor N-disconnect terminal block; I_N 125 A; 35 mm²; 16 mm wide



blue	785-613	15

2-conductor supply terminal block for distribution boxes; I_N 76 A; 16 mm²; 12 mm wide



gray	2016-7601	20
blue	2016-7604	20

2-conductor through terminal block; I_N 125 A; 35 mm²; 16 mm wide



gray	785-601	15
blue	785-604	15

2-conductor ground terminal block; 16 mm²; 12 mm wide



green-yellow	2016-7607	20

2-conductor ground terminal block; 35 mm²; 16 mm wide



green-yellow	785-607	15

Connector; for busbar; 2.5 … 16 mm²



blue	210-281	100 (50)

Connector; for busbar; 2.5 … 35 mm²



silver-colored	209-105	50

Lock-out; prevents reclosing of slide link; snap-on type



orange	2005-7300	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2004-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade; for TOPJOB® S Installation Terminal Blocks



	2009-310	50 (1)

Operating tool; (3.5 x 0.5) mm blade; with a partially insulated shaft



	210-720	1

❶ Conductor range: 0.5 … 6 mm² “s+f-st”
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion before install can be used in dry, pollution-free locations.

According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

Multilevel Installation Terminal Block TOPJOB® S; with N-Disconnect Slide Link
2.5 (4) mm²; 2003 Series

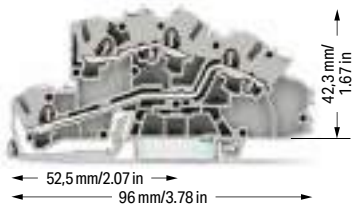
3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 4 kV / 3; 24 A (32 A) ❷	
400 V / 6 kV / 3; 24 A (32 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with N-disconnect slide link; gray		
	Item No.	Pack. Unit
◯ NT/L/PE	2003-7641	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

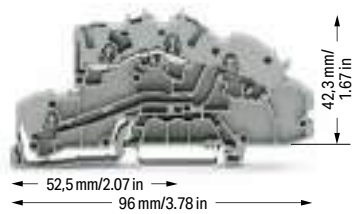


Multilevel installation terminal block; gray		
	Item No.	Pack. Unit
◯ L/L	2003-7642	50
◯ N/L	2003-7649	50



Multilevel installation terminal block; with N-disconnect slide link; gray		
	Item No.	Pack. Unit
◯ NT/L	2003-7640	50
◯ LT/L	2003-7659	50

Multilevel installation terminal block; gray		
◯ N/L/PE	2003-7646	50
◯ L/L/PE	2003-7645	50



Multilevel installation terminal block; gray		
	Item No.	Pack. Unit
◯ L	2003-7650	50
◯ N	2003-7651	50

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick			
orange	2003-7692	100 (25)	

Busbar cover; 1000 mm long			
transparent	777-303	1	

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick			
blue	2009-304	100 (25)	

1-conductor N-disconnect terminal block; I_N 76 A; 16 mm²; 12 mm wide			
blue	2016-7714	20	

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick			
blue	2009-305	25	

1-conductor N-disconnect terminal block; I_N 125 A; 35 mm²; 16 mm wide			
blue	785-613	15	

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm			
I_N 140 A	210-133	1	

2-conductor ground terminal block; 16 mm²; 12 mm wide			
green-yellow	2016-7607	20	

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V / 4 kV potential – ground
400 V / 6 kV potential – potential

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

2-conductor ground terminal block; 35 mm²; 16 mm wide			
green-yellow	785-607	15	

Connector; for busbar; 2.5 … 16 mm²			
blue	210-281	100 (50)	

Connector; for busbar; 2.5 … 35 mm²			
unplated	209-105	50	

Lock-out; prevents reclosing of slide link; snap-on type			
orange	2003-7300	100 (25)	

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
light gray	2002-171	200 (25)	

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
dark gray	2002-172	200 (25)	

Push-in type jumper bar; insulated; I_N 25 A; light gray		
2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray		
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



	2009-309	50 (1)

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

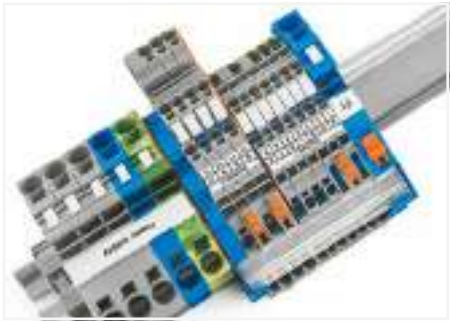


	2009-310	50 (1)

Operating tool; blade 3.5 x 0.5 mm; with a partially insulated shaft



	210-720	1



TOPJOB® S – Terminal Blocks for Every Application

- Push-in termination of solid conductors in small distribution boards saves time and money.
- Operating errors can be prevented as all Terminal Blocks for building installations are equipped with push-in connection technology.
- Using standard accessories reduces order-processing and warehousing costs.
- The busbar position is the same, making Installation Terminal Blocks TOPJOB® S compatible with standard Installation Terminal Blocks TOPJOB®.

For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation resistance measurement is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

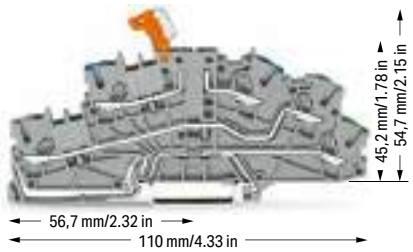
Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion before install can be used in dry, pollution-free locations.

According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

Multilevel Installation Terminal Block TOPJOB® S; with Internal N-Disconnection
2.5 (4) mm²; 2003 Series

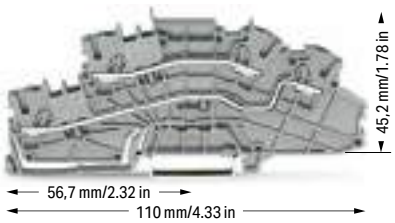
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 4 kV / 3; 20 A (25 A) ❷	300 V, 20 A
400 V / 6 kV / 3; 20 A (25 A) ❷	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with pivoting knife disconnect; gray

	Item No.	Pack. Unit
NT/L/PE	2003-6641	50
LT/L/PE	2003-6644	50

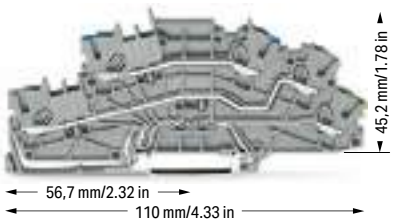
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A (28 A)	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
L/L	2003-6642	50
N/L	2003-6649	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 4 kV / 3; 24 A (28 A) ❷	300 V, 20 A
400 V / 6 kV / 3; 24 A (28 A) ❷	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
N/L/PE	2003-6646	50
L/L/PE	2003-6645	50

Accessories; item-specific

N/L-test plug adapter; for vertical test slot; gray

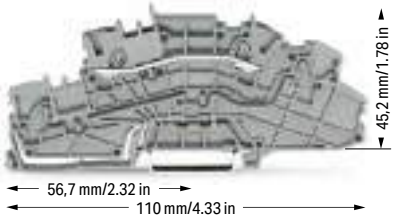


2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray



1-pole	2003-500	100 (25)



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
L	2003-6650	50
N	2003-6651	50

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick



orange	2003-6692	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V / 4 kV potential – ground
400 V / 6 kV potential – potential

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



2009-309	50 (1)

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



2009-310	50 (1)

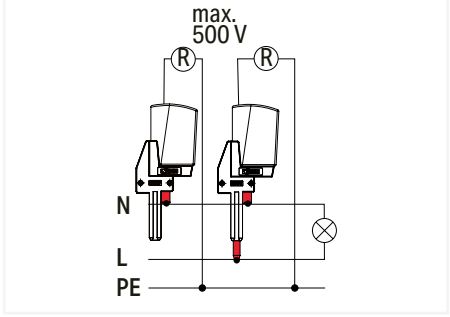
Operating tool; blade 3.5 x 0.5 mm; with a partially insulated shaft



210-720	1



For multilevel installation terminal blocks with internal N-disconnection, test plug adapters can be inserted into the free vertical test slot when the N-potential is disconnected.



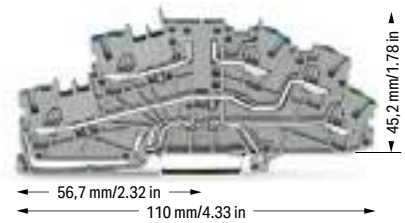
Test plug adapters for both individual N-potential measurement and insulation resistance measurement of the connected N- and L-potentials are available.

3

Multilevel Installation Terminal Block TOPJOB® S
2.5 (4) mm²; 2003 Series

3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 4 kV / 3; 20 A (25 A) ❷	250 V, 6,3 A
400 V / 6 kV / 3; 20 A (25 A) ❷	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



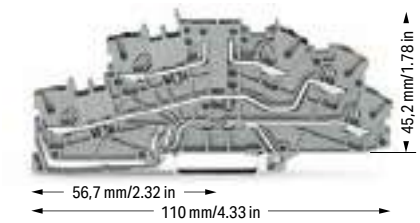
Multilevel installation terminal block; carrier terminal block without knife disconnect; gray

	Item No.	Pack. Unit
N/L/PE	2003-6640	50
L/L/PE	2003-6662	50

Multilevel installation terminal block; carrier terminal block without knife disconnect; blue middle-deck; green-yellow lower-deck printing; gray

L/N/PE	2003-6661	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V / 4 kV / 3; 20 A (25 A) ❷	250 V, 6,3 A
400 V / 6 kV / 3; 20 A (25 A) ❷	300 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; carrier terminal block without knife disconnect; black upper-deck, brown middle-deck, green-yellow lower-deck printing

	Item No.	Pack. Unit
P2/P1/PE	2003-6643	50

Multilevel installation terminal block; carrier terminal block without knife disconnect; brown upper-deck, black middle-deck, green-yellow lower-deck printing

P1/P2/PE	2003-6660	50

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

N/L-test plug adapter; for vertical test slot; gray



2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray



1-pole	2003-500	100 (25)

End and intermediate plate; 0.8 mm thick



orange	2003-6692	100 (25)

Fuse plug with pull-tab; for 5 x 20 mm glass cartridge fuse
Electrical ratings are given by the fuse.



gray	2004-911	50

End and intermediate plate; only for use with fuse plugs; 1 mm thick



orange	2003-6693	100 (25)

Double-fuse plug; for 5 x 20 mm glass cartridge fuse
Electrical ratings are given by the fuse.



gray	2003-911	25

End and intermediate plate; 1 mm thick; only for use with double-fuse plugs



orange	2003-6694	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V / 4 kV potential – ground
400 V / 6 kV potential – potential
Maximum current depends on accessories used.

Please observe the application notes:
Jumpers, from page 182
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A, light gray

2-way	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white — 2009-110 — 1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white — 2009-115 — 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain — 793-5501 — 5

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



2009-309 — 50 (1)

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



2009-310 — 50 (1)

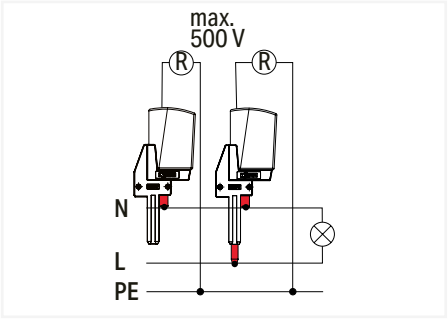
Operating tool; blade 3.5 x 0.5 mm; with a partially insulated shaft



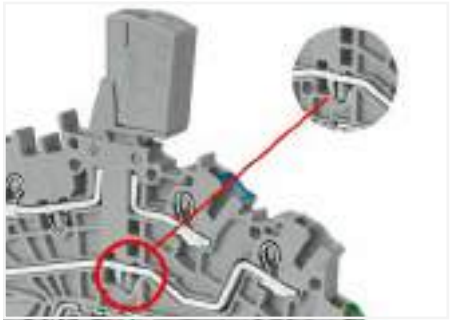
210-720 — 1



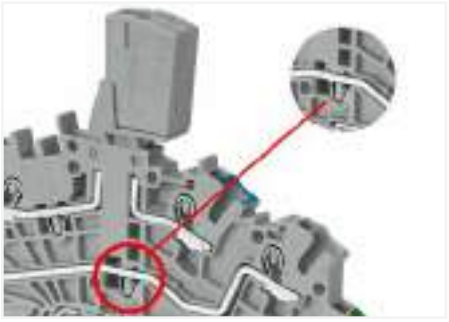
Single-fuse plugs can be used in combination with 1 mm thick end and intermediate plates on carrier terminal blocks without an N-knife disconnect.



Test plug adapters for both individual N-potential measurement and insulation resistance measurement of the connected N- and L-potentials are available.



Multilevel installation terminal block fitted with an N/L-test plug adapter for quick and safe insulation resistance measurement of the connected N- and L-potentials



Multilevel installation terminal block fitted with an N-test plug adapter for insulation resistance measurement of the N-potential

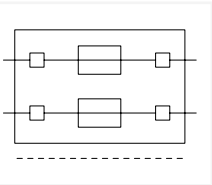
3

Double-Fuse Plug TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2003 Series

3

Technical Data
250 V / I_N 6.3 A
Plug width: 10.4 mm / 0.409 inch



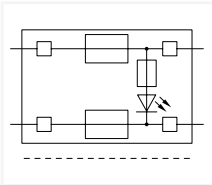


Double-fuse plug; for 5 x 20 mm glass cartridge fuse
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	2003-911	50

Technical Data
250 V / I_N 6.3 A
Plug width: 10.4 mm / 0.409 inch





Double-fuse plug; for 5 x 20 mm glass cartridge fuse; with LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 0.25 mA

	Item No.	Pack. Unit
230 V	2003-911/1000-923	50

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1661 50

End and intermediate plate; 1 mm thick



orange 2002-1692 100 (25)
gray 2002-1691 100 (25)

3-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1761 50

End and intermediate plate; 1 mm thick



orange 2002-1792 100 (25)
gray 2002-1791 100 (25)

4-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1861 50

End and intermediate plate; 1 mm thick



orange 2002-1892 100 (25)
gray 2002-1891 100 (25)

End plate for fuse terminal blocks; 2 mm thick



orange 2002-992 100 (25)
gray 2002-991 100 (25)

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



gray 2002-1961 50

End and intermediate plate; 1 mm thick



orange 2002-1992 100 (25)
gray 2002-1991 100 (25)

Double-deck carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



L/L 2002-2961 50

Double-deck carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



L/N 2002-2963 50

Double-deck carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



L/L 2002-2941 50

End and intermediate plate; 1 mm thick



orange 2002-2992 100 (25)
gray 2002-2991 100 (25)

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug



I_N 6.3 A 281-503 250 (25)

Length for 2002-1661 – 66.5 mm / 2.62 inch
2-conductor carrier terminal block

Length for 2002-1761 – 76.8 mm / 3.02 inch
3-conductor carrier terminal block

Length for 2002-1861 – 87.5 mm / 3.45 inch
4-conductor carrier terminal block

Length for 2002-1961 – 72.9 mm / 2.87 inch
2-conductor carrier terminal block with additional jumper slot

Length for 2002-2961 – 108 mm / 4.25 inch
Double-deck carrier terminal block

Length for 2003-6640 – 110 mm / 4.33 inch
Multilevel Installation Terminal Block

Approvals and corresponding ratings, visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



N/L/PE 2003-6640 50

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



L/N/PE 2003-6661 50

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



P2/P1/PE 2003-6643 50

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch



P1/P2/PE 2003-6660 50

End and intermediate plate; 0.8 mm thick



orange 2003-6692 100 (25)

End and intermediate plate; 1 mm thick; only for use with double-fuse plugs



orange 2003-6694 100 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

F1, ..., F10 (10x) 794-5615 5
F11, ..., F20 (10x) 794-5616 5
F21, ..., F30 (10x) 794-5617 5
F31, ..., F40 (10x) 794-5618 5
F41, ..., F50 (10x) 794-5619 5



Double-fuse plugs with 5 x 25 mm glass cartridge fuses can be used on carrier terminal blocks without an N-knife disconnect in standard terminal block width.

Glass cartridge fuses 5 x 20

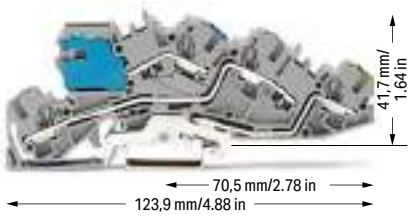
Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2003-911 2003-911/....-....	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Multilevel Installation Terminal Block TOPJOB® S; with N-Disconnect Slide Link
4 (6) mm²; 2005 Series

3

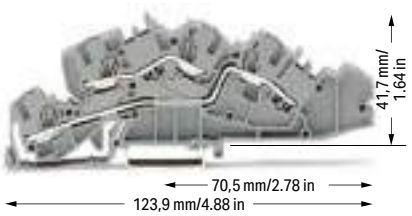
Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V / 4 kV / 3; 32 A (36 A) ❷	
400 V / 6 kV / 3; 32 A (36 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with N-disconnect slide link; gray

	Bestellnr.	VPE
○ NT/L/PE	2005-7641	50

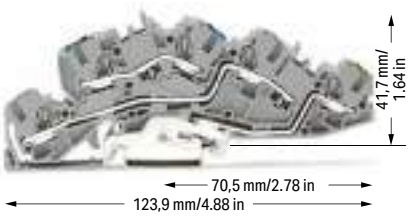
Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
400 V / 6 kV / 3 ❷	
I_N 32 A (36 A)	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; gray

	Bestellnr.	VPE
○ L/L	2005-7642	50
○ N/L	2005-7649	50

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V / 4 kV / 3; 32 A (36 A) ❷	
400 V / 6 kV / 3; 32 A (36 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; gray

	Bestellnr.	VPE
○ N/L/PE	2005-7646	50
○ L/L/PE	2005-7645	50

Accessories; 2005 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange | 2005-7692 | 100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue | 2009-304 | 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue | 2009-305 | 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A | 210-133 | 1

Busbar cover; 1000 mm long



transparent | 777-303 | 1

Lock-out; prevents reclosing of slide link; snap-on type



orange | 2005-7300 | 100 (25)

1-conductor N-disconnect terminal block; I_N 76 A; 16 mm²; 12 mm wide



blue | 2016-7714 | 20

1-conductor N-disconnect terminal block; I_N 125 A; 35 mm²; 16 mm wide



blue | 785-613 | 15

2-conductor ground terminal block; 16 mm²; 12 mm wide



green-yellow | 2016-7607 | 20

2-conductor ground terminal block; 35 mm²; 16 mm wide



green-yellow | 785-607 | 15

Connector; for busbar; 2.5 … 16 mm²



blue | 210-281 | 100 (50)

Connector; for busbar; 2.5 … 35 mm²



unplated | 209-105 | 50

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray | 2004-171 | 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray | 2004-172 | 200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray



2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray



1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Test plug adapter; for 4 mm Ø test plug



gray | 2009-174 | 100 (25)

Testing tap; for max. 2.5 mm²



gray | 2009-182 | 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



2009-309 | 50 (1)

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S



2009-310 | 50 (1)

Operating tool; blade 3.5 x 0.5 mm; with a partially insulated shaft



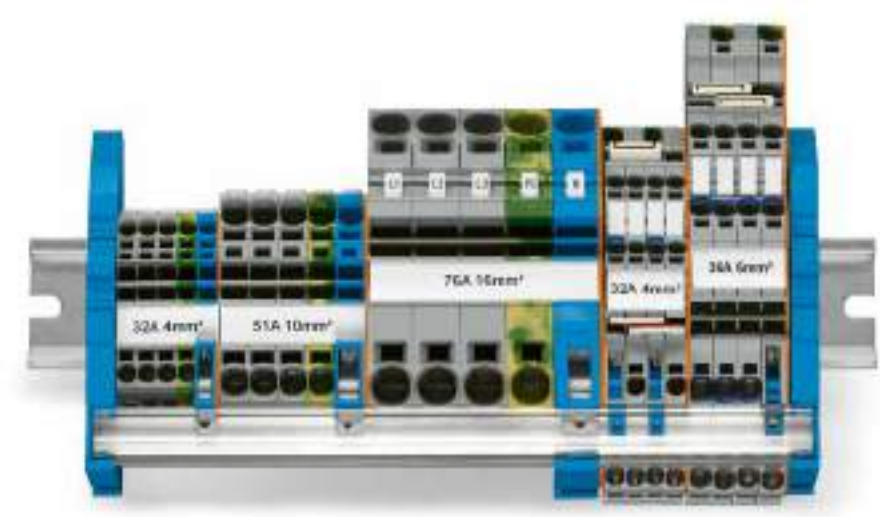
210-720 | 1

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
250 V / 4 kV potential – ground
400 V / 6 kV potential – potential

Please observe the application notes:
Testing accessories, page 181
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion before install can be used in dry, pollution-free locations.

According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

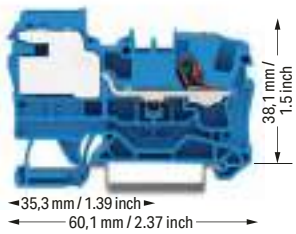
PUSH-IN CAGE CLAMP®

N-Disconnect Terminal Block, Power Distribution Disconnect Terminal Block TOPJOB® S; with Push-Button

2206 Series; 2216 Series

3

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
250 V/4 kV/3 ❸	
I_N 41 A (57 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



1-conductor N-disconnect terminal block; with push-button		
Color	Item No.	Pack. Unit
blue	2206-7114	50

1-conductor power distribution disconnect terminal block; with push-button		
gray	2206-7111	50

Appropriate through and ground conductor terminal blocks, see page 46

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange 2006-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange 2006-7300 100 (25)

Accessories; for N-conductor and power distribution disconnect terminal blocks

Appropriate marking systems: WMB/Marking strips

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue 2009-304 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue 2009-305 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A 210-133 1

Busbar cover; 1000 mm long



transparent 777-303 1

Connector; for busbar; 2.5 … 16 mm²



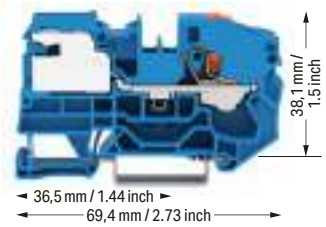
blue 210-281 100 (50)

Connector; for busbar; 2.5 … 35 mm²



silver-colored 209-105 1

Technical Data	
0.5 … 16 (25 "f-st") mm² ❷	20 … 4 AWG
250 V/4 kV/3 ❸	
I_N 69 A	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



1-conductor N-disconnect terminal block; with push-button		
Color	Item No.	Pack. Unit
blue	2216-7114	25

1-conductor power distribution disconnect terminal block; with push-button		
gray	2216-7111	25

Appropriate through and ground conductor terminal blocks, see page 48

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange 2016-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange 2006-7300 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ Conductor range: 0.5 … 16 mm² "s+f-st", 25 mm² "f-st"; Push-in termination: 6 … 16 mm² "s" and 6 … 16 mm² "insulated ferrules; 18 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❸ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

N-Conductor Disconnect Terminal Blocks

For constructing and operating power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Power Distribution Disconnect Terminal Blocks

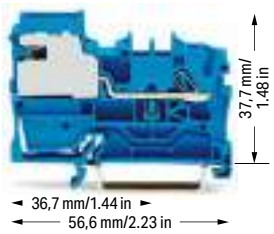
According to DIN VDE 0100-710, "Requirements for operating facilities, rooms and special installations – medical facilities," equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO's power distribution disconnect terminal blocks meet these requirements.

N-Disconnect Terminal Block, Power Distribution Disconnect Terminal Block TOPJOB® S
2002 Series; 2006 Series; 2010 Series; 2016 Series

3

Technical Data

0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
250 V / 4 kV / 3 ❺
I_N 32 A
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2002-7114	50

1-conductor power distribution disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-7111	50

Appropriate through and ground conductor terminal blocks, see page 56

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

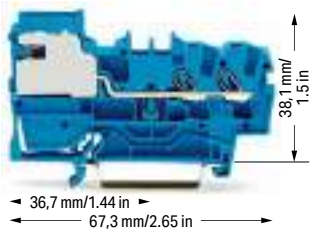


orange | 2002-7192 | 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange | 2005-7300 | 100 (25)



2-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2002-7214	50

2-conductor power distribution disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-7211	50

Accessories; item-specific

End and intermediate plate; 0.8 mm thick



orange | 2002-7292 | 100 (25)

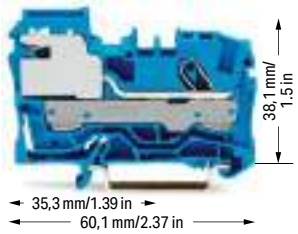
Lock-out; prevents reclosing of slide link; snap-on type



orange | 2005-7300 | 100 (25)

Technical Data

0.5 … 6 (10) mm² ❷ | 20 … 8 AWG
250 V / 4 kV / 3 ❺
I_N 51 A
Terminal block width: 7.5 mm / 0.295 inch
13 … 15 mm / 0.51 … 0.59 inch



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2006-7114	50

1-conductor power distribution disconnect terminal block

Color	Item No.	Pack. Unit
gray	2006-7111	50

Appropriate through and ground conductor terminal blocks, see page 62

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange | 2006-7192 | 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange | 2006-7300 | 100 (25)

Accessories; for N-conductor and power distribution disconnect terminal blocks

Appropriate marking systems: WMB/Marking strips

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue | 2009-304 | 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick



blue | 2009-305 | 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A | 210-133 | 1

Busbar cover; 1000 mm long



transparent | 777-303 | 1

Connector; for busbar; 2.5 … 16 mm²



blue | 210-281 | 100 (50)

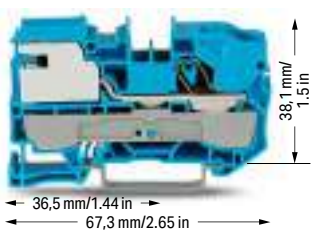
Connector; for busbar; 2.5 … 35 mm²



unplated | 209-105 | 1

Technical Data

0.5 … 10 (16) mm² ❸ | 20 … 6 AWG
250 V / 4 kV / 3 ❺
I_N 57 A
Terminal block width: 10 mm / 0.394 inch
17 … 19 mm / 0.67 … 0.75 inch



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2010-7114	25

1-conductor power distribution disconnect terminal block

Color	Item No.	Pack. Unit
gray	2010-7111	25

Appropriate through and ground conductor terminal blocks, see page 63

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange | 2010-7192 | 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange | 2006-7300 | 100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



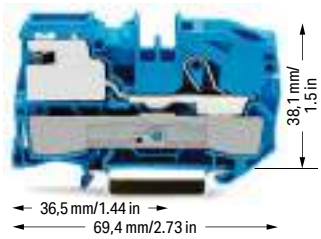
white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Technical Data

0.5 … 16 (25 “f-st”) mm² ❸ | 20 … 4 AWG
250 V / 4 kV / 3 ❺
I_N 65 A
Terminal block width: 12 mm / 0.472 inch
18 … 20 mm / 0.71 … 0.79 inch



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2016-7114	25

1-conductor power distribution disconnect terminal block

Color	Item No.	Pack. Unit
gray	2016-7111	25

Appropriate through and ground conductor terminal blocks, see page 64

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange 2016-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange 2006-7300 100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ Conductor range: 0.5 … 10 mm² “s+f-st”; Push-in termination: 2.5 … 10 mm² “s” and 2.5 … 6 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❸ Conductor range: 0.5 … 16 mm² “s+f-st”; Push-in termination: 4 … 16 mm² “s” and 4 … 10 mm² “insulated ferrules; 18 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❹ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❺ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com



Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.



Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.



Inserting separator plate removed from N-disconnect terminal block.



Touch-proof N-busbar via inserted separator plate

N-conductor disconnect terminal blocks:
For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO’s N-disconnect terminal blocks meet this requirement.

Power distribution disconnect terminal blocks:
According to DIN VDE 0100-710, “Requirements for operating facilities, rooms and special installations – medical facilities,” equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO’s power distribution disconnect terminal blocks meet these requirements.

PUSH-IN CAGE CLAMP®

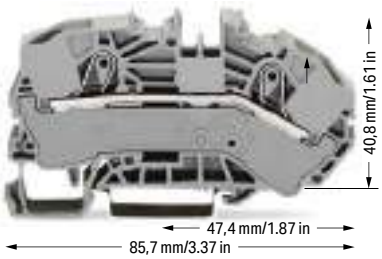
Supply Terminal Block for Distribution Boxes, Ground Conductor Terminal Block, N-Disconnect Terminal Block, Power Distribution Disconnect Terminal Block TOPJOB® S

16 (25 “f-st”) mm²; 2016 Series

3

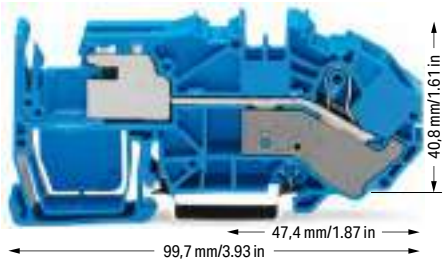
Technical Data

0.5 … 16 (25 “f-st”) mm² ❶ | 20 … 4 AWG
800 V / 8 kV / 3 ❷
I_N 76 A
Terminal block width: 12 mm / 0.472 inch
18 … 20 mm / 0.71 … 0.79 inch



Technical Data

0.5 … 16 (25 “f-st”) mm² ❶ | 20 … 4 AWG
250 V / 4 kV / 3 ❸
I_N 76 A
Terminal block width: 12 mm / 0.472 inch
18 … 20 mm / 0.71 … 0.79 inch



❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

2-conductor supply terminal block for distribution boxes

Color	Item No.	Pack. Unit
gray	2016-7601	20
blue	2016-7604	20

1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2016-7714	20

2-conductor ground terminal block
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow	2016-7607	20

1-conductor power distribution disconnect terminal block

gray	2016-7711	20

N-conductor disconnect terminal blocks:
For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO’s N-disconnect terminal blocks meet this requirement.

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2016-7692	100 (25)
gray	2016-7691	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	2016-7792	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2016-115	100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange	2006-7300	100 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow	2016-100	100 (25)

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A	210-133	1

Busbar cover; 1000 mm long



transparent	777-303	1

Power distribution disconnect terminal blocks:
According to DIN VDE 0100-710, “Requirements for operating facilities, rooms and special installations – medical facilities,” equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO’s power distribution disconnect terminal blocks meet these requirements.

Accessories; 2016 Series

Appropriate marking systems: WMB/Marking strips

Push-in type jumper bar; insulated; I_N 76 A; light gray



2-way	2016-402	25
3-way	2016-403	25
4-way	2016-404	25
5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 76 A; light gray



1 to 3	2016-433	25
1 to 4	2016-434	25
1 to 5	2016-435	25

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



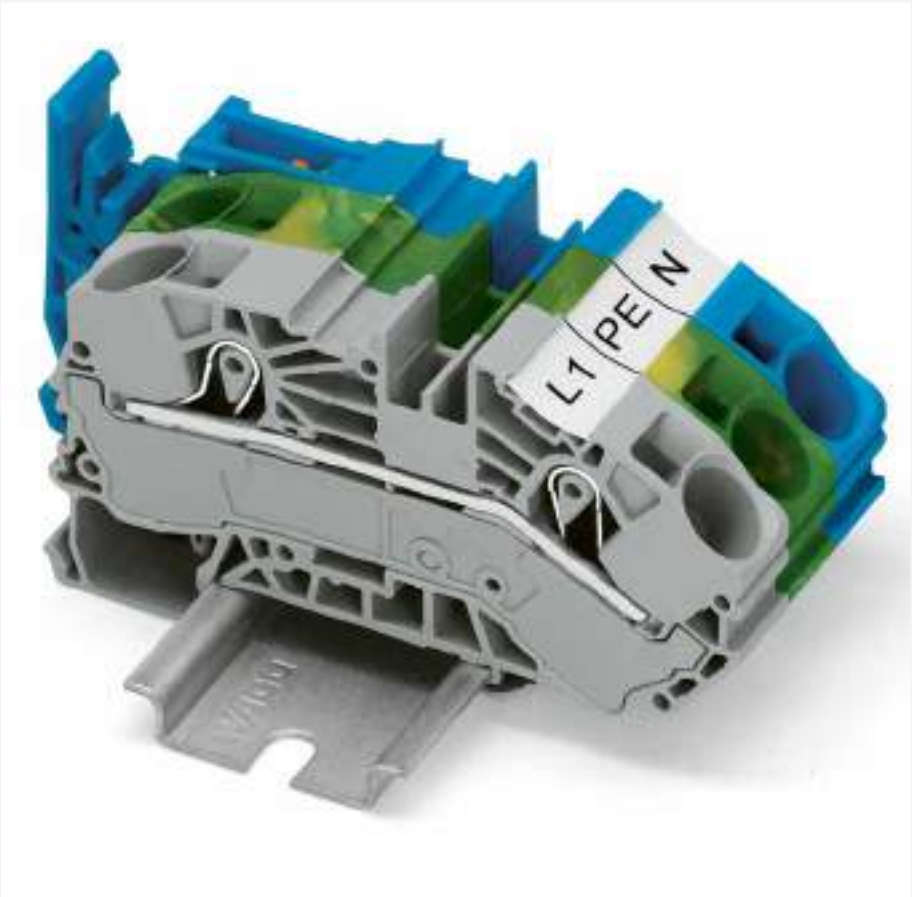
white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

PUSH-IN CAGE CLAMP®

Supply Terminal Blocks Assembly TOPJOB® S



With an angled conductor entry, the 2016 Series Supply Terminal Blocks simplify the wiring of solid conductors in distribution boxes. Solid conductors of the largest cross-section can be connected easily, enabling the distribution box cover to fit without interfering with the conductors.

Board Set
821 Series



Subdistribution board set TOPJOB® S; with operating slots

Item No.	Pack. Unit
821-104	1

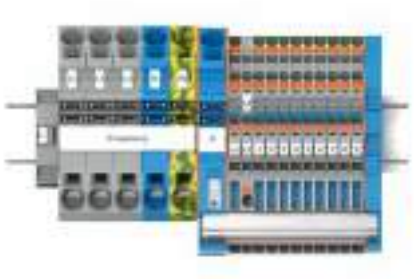
Contains:
- 10 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2003-7641)
- 1 x Multilevel installation terminal block; L/L; 4 mm² (2003-7642)
- 1 x End and intermediate plate (2003-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 1 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 1 x End and intermediate plate (2016-7792)
- 1 x Screwless end stop; 10 mm wide (249-117)
- 1 x Busbar carrier; with end stop function (2009-305)
- 1 x Busbar; tin-plated; 0.2 m (210-133)
- 1 x N-busbar cover; transparent; 0.2 m (777-303)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)



Subdistribution board set TOPJOB® S; with operating slots and push-button

Item No.	Pack. Unit
821-106	1

Contains:
- 10 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-7541)
- 1 x Multilevel installation terminal block; L/L; 4 mm² (2203-7542)
- 1 x End and intermediate plate (2203-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 1 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 1 x End and intermediate plate (2016-7792)
- 1 x Screwless end stop; 10 mm wide (249-117)
- 1 x Busbar carrier; with end stop function (2009-305)
- 1 x Busbar; tin-plated; 0.2 m (210-133)
- 1 x N-busbar cover; transparent; 0.2 m (777-303)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)



Subdistribution board set TOPJOB® S; with push-button

Item No.	Pack. Unit
821-107	1

Contains:
- 10 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-7641)
- 1 x Multilevel installation terminal block; L/L; 4 mm² (2203-7642)
- 1 x End and intermediate plate (2203-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 1 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 1 x End and intermediate plate (2016-7792)
- 1 x Screwless end stop; 10 mm wide (249-117)
- 1 x Busbar carrier; with end stop function (2009-305)
- 1 x Busbar; tin-plated; 0.2 m (210-133)
- 1 x N-busbar cover; transparent; 0.2 m (777-303)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

Board Set
821 Series



FI main distribution board set TOPJOB® S; with operating slots

Item No.	Pack. Unit
821-122	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2003-7641)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2003-7642)
- 2 x End and intermediate plate (2003-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 1 x End and intermediate plate (2016-7792)
- 1 x Screwless end stop; 10 mm wide (249-117)
- 2 x Busbar carrier; with end stop function (2009-305)
- 1 x Busbar; tin-plated; 0.2 m (210-133)
- 1 x N-busbar cover; transparent; 0.2 m (777-303)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)



FI main distribution board set TOPJOB® S; with operating slots and push-button

Item No.	Pack. Unit
821-108	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-7541)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2203-7542)
- 2 x End and intermediate plate (2203-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 1 x End and intermediate plate (2016-7792)
- 1 x Screwless end stop; 10 mm wide (249-117)
- 2 x Busbar carrier; with end stop function (2009-305)
- 1 x Busbar; tin-plated; 0.2 m (210-133)
- 1 x N-busbar cover; transparent; 0.2 m (777-303)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)



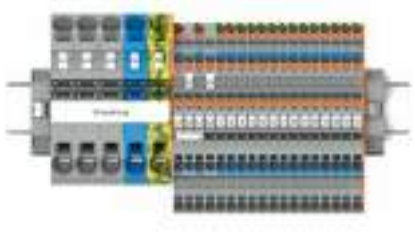
FI main distribution board set TOPJOB® S; with push-button

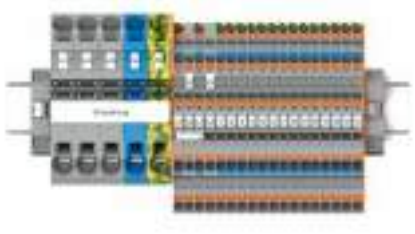
Item No.	Pack. Unit
821-109	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-7641)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2203-7642)
- 2 x End and intermediate plate (2203-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 1 x End and intermediate plate (2016-7792)
- 1 x Screwless end stop; 10 mm wide (249-117)
- 2 x Busbar carrier; with end stop function (2009-305)
- 1 x Busbar; tin-plated; 0.2 m (210-133)
- 1 x N-busbar cover; transparent; 0.2 m (777-303)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

Board Set
821 Series







FI/LS main distribution board set TOPJOB® S; with operating slots		
	Item No.	Pack. Unit
	821-123	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2003-7641)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2003-7642)
- 1 x End and intermediate plate (2003-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x Screwless end stop; 10 mm wide (249-117)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

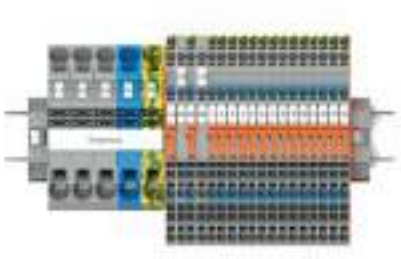
FI/LS main distribution board set TOPJOB® S; with operating slots and push-button		
	Item No.	Pack. Unit
	821-110	1

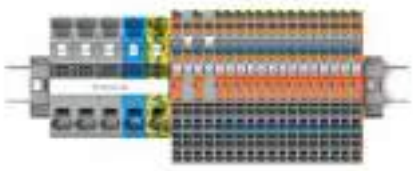
Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-7541)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2203-7542)
- 1 x End and intermediate plate (2203-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x Screwless end stop; 10 mm wide (249-117)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

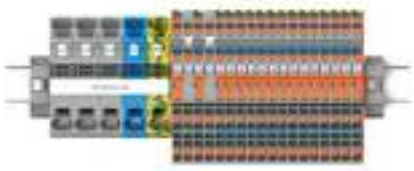
FI/LS main distribution board set TOPJOB® S; with push-button		
	Item No.	Pack. Unit
	821-111	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-7641)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2203-7642)
- 1 x End and intermediate plate (2203-7692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x Screwless end stop; 10 mm wide (249-117)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

Board Set
821 Series







Set; with operating slots		
	Item No.	Pack. Unit
	821-129	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2003-6641)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2003-6642)
- 1 x End and intermediate plate (2003-6692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x Screwless end stop; 10 mm wide (249-117)
- 15 x Push-in type jumper bar; 2-way (2002-402)
- 2 x Test plug adapter N/L; gray (2003-499)
- 2 x Test plug adapter N; gray (2003-500)
- 2 x Test plug adapter; for 4 mm Ø test plugs (2009-174)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

Set; with operating slots and push-button		
	Item No.	Pack. Unit
	821-112	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-6541)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2203-6542)
- 1 x End and intermediate plate (2203-6692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x Screwless end stop; 10 mm wide (249-117)
- 15 x Push-in type jumper bar; 2-way (2002-402)
- 2 x Test plug adapter N/L; gray (2003-499)
- 2 x Test plug adapter N; gray (2003-500)
- 2 x Test plug adapter; for 4 mm Ø test plugs (2009-174)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

Set; with push-button		
	Item No.	Pack. Unit
	821-113	1

Contains:
- 16 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2203-6641)
- 2 x Multilevel installation terminal block; L/L; 4 mm² (2203-6642)
- 1 x End and intermediate plate (2203-6692)
- 3 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 1 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 1 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 1 x End and intermediate plate (2016-7692)
- 2 x Screwless end stop; 10 mm wide (249-117)
- 15 x Push-in type jumper bar; 2-way (2002-402)
- 2 x Test plug adapter N/L; gray (2003-499)
- 2 x Test plug adapter N; gray (2003-500)
- 2 x Test plug adapter; for 4 mm Ø test plugs (2009-174)
- 1 x Marking strips; white; 0.5 m (2009-110)
- 1 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Fiber-tip pen (210-110)

Board Set
821 Series



INSTA-BOX TOPJOB® S; L-BOXX® 102; with operating slots; for Distribution Boards in Buildings

	Bestellnr.	VPE
	821-160	1

Contains:
- 50 x Multilevel installation terminal block; NT/L/PE; 2.5 mm² (2003-7641)
- 10 x Multilevel installation terminal block; L/L; 2.5 mm² (2003-7642)
- 10 x End and intermediate plate (2003-7692)
- 5 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2005-7641)
- 5 x Multilevel installation terminal block; L/L; 4 mm² (2005-7642)
- 5 x End and intermediate plate (2003-7692)
- 9 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 3 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 3 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 10 x End and intermediate plate (2016-7692)
- 6 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 5 x End and intermediate plate (2016-7792)
- 5 x Screwless end stop; 10 mm wide (249-117)
- 6 x Busbar carrier; with end stop function (2009-305)
- 5 x Busbar carrier; not suitable for use as end stop (2009-304)
- 4 x Busbar; tin-plated; 0.25 m (210-133)
- 4 x N-busbar cover; transparent; 0.25 m (777-303)
- 10 x Staggered jumper; 3-way (2002-473)
- 10 x Staggered jumper; 5-way (2002-475)
- 10 x Staggered jumper; 7-way (2002-477)
- 10 x Push-in type jumper bar; 2-way (2002-402)
- 5 x Push-in type jumper bar; 2-way (2016-402)
- 2 x Test plug; 2 mm Ø (210-136)
- 2 x Testing tap; for max. 2.5 mm² (2009-182)
- 5 x Lock-out; prevents reclosing of slide link; for 2003 Series (2003-7300)
- 5 x Lock-out; prevents reclosing of slide link; for 2002 and 2005 Series (2005-7300)
- 5 x Lock-out; prevents reclosing of slide link; for 2006 and 2016 Series (2006-7300)
- 4 x Marking strips; white; 0.25 m (2009-110)
- 2 x WMB marking card; plain (793-5501)
- 2 x WMB marking card; 1 … 50 (793-5566)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Operating tool (2009-310)
- 1 x Fiber-tip pen (210-110)



INSTA-BOX TOPJOB® S; L-BOXX® 102; with operating slots and push-button; for Distribution Boards in Buildings

	Bestellnr.	VPE
	821-161	1

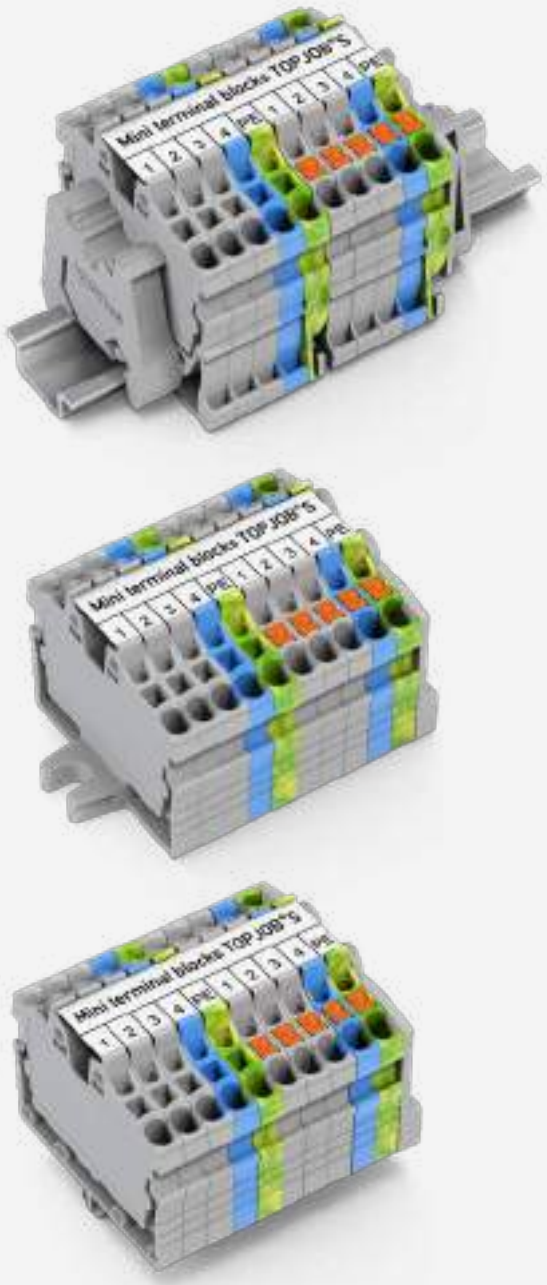
Contains:
- 50 x Multilevel installation terminal block; NT/L/PE; 2.5 mm² (2203-7541)
- 10 x Multilevel installation terminal block; L/L; 2.5 mm² (2203-7542)
- 10 x End and intermediate plate (2203-7692)
- 5 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2205-7541)
- 5 x Multilevel installation terminal block; L/L; 4 mm² (2205-7542)
- 5 x End and intermediate plate (2205-7692)
- 9 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 3 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 3 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 10 x End and intermediate plate (2016-7692)
- 6 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 5 x End and intermediate plate (2016-7792)
- 5 x Screwless end stop; 10 mm wide (249-117)
- 6 x Busbar carrier; with end stop function (2009-305)
- 5 x Busbar carrier; not suitable for use as end stop (2009-304)
- 4 x Busbar; tin-plated; 0.25 m (210-133)
- 4 x N-busbar cover; transparent; 0.25 m (777-303)
- 10 x Staggered jumper; 3-way (2002-473)
- 10 x Staggered jumper; 5-way (2002-475)
- 10 x Staggered jumper; 7-way (2002-477)
- 10 x Push-in type jumper bar; 2-way (2002-402)
- 5 x Push-in type jumper bar; 2-way (2016-402)
- 2 x Test plug; 2 mm Ø (210-136)
- 2 x Testing tap; for max. 2.5 mm² (2009-182)
- 5 x Lock-out; prevents reclosing of slide link; for 2003 Series (2003-7300)
- 5 x Lock-out; prevents reclosing of slide link; for 2002 and 2005 Series (2005-7300)
- 5 x Lock-out; prevents reclosing of slide link; for 2006 and 2016 Series (2006-7300)
- 4 x Marking strips; white; 0.25 m (2009-110)
- 2 x WMB marking card; plain (793-5566)
- 2 x WMB marking card; 1 … 50 (793-5501)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Operating tool (2009-310)
- 1 x Fiber-tip pen (210-110)



INSTA-BOX TOPJOB® S; L-BOXX® 102; with push-button; for Distribution Boards in Buildings

	Bestellnr.	VPE
	821-162	1

Contains:
- 50 x Multilevel installation terminal block; NT/L/PE; 2.5 mm² (2203-7641)
- 10 x Multilevel installation terminal block; L/L; 2.5 mm² (2203-7642)
- 10 x End and intermediate plate (2203-7692)
- 5 x Multilevel installation terminal block; NT/L/PE; 4 mm² (2205-7641)
- 5 x Multilevel installation terminal block; L/L; 4 mm² (2205-7642)
- 5 x End and intermediate plate (2205-7692)
- 9 x 2-conductor supply terminal block for distribution boxes; gray; 16 mm² (2016-7601)
- 3 x 2-conductor supply terminal block for distribution boxes; blue; 16 mm² (2016-7604)
- 3 x 2-conductor ground terminal block; green-yellow; 16 mm² (2016-7607)
- 10 x End and intermediate plate (2016-7692)
- 6 x 1-conductor N-disconnect terminal block; blue; 16 mm² (2016-7714)
- 5 x End and intermediate plate (2016-7792)
- 5 x Screwless end stop; 10 mm wide (249-117)
- 6 x Busbar carrier; with end stop function (2009-305)
- 5 x Busbar carrier; not suitable for use as end stop (2009-304)
- 4 x Busbar; tin-plated; 0.25 m (210-133)
- 4 x N-busbar cover; transparent; 0.25 m (777-303)
- 10 x Staggered jumper; 3-way (2002-473)
- 10 x Staggered jumper; 5-way (2002-475)
- 10 x Staggered jumper; 7-way (2002-477)
- 10 x Push-in type jumper bar; 2-way (2002-402)
- 5 x Push-in type jumper bar; 2-way (2016-402)
- 2 x Test plug; 2 mm Ø (210-136)
- 2 x Testing tap; for max. 2.5 mm² (2009-182)
- 5 x Lock-out; prevents reclosing of slide link; for 2003 Series (2003-7300)
- 5 x Lock-out; prevents reclosing of slide link; for 2002 and 2005 Series (2005-7300)
- 5 x Lock-out; prevents reclosing of slide link; for 2006 and 2016 Series (2006-7300)
- 4 x Marking strips; white; 0.25 m (2009-110)
- 2 x WMB marking card; plain (793-5566)
- 2 x WMB marking card; 1 … 50 (793-5501)
- 1 x WMB marking card; L1, L2, L3, N, PE (793-5472)
- 1 x Operating tool (2009-310)
- 1 x Fiber-tip pen (210-110)



WAGO Mini Rail-Mount Terminal Blocks TOPJOB® S

PUSH-IN CAGE CLAMP®

WAGO Mini Rail-Mount Terminal Blocks TOPJOB® S

			Page
	**Miniature Through and Ground Conductor Terminal Blocks; with Push-Buttons; for DIN-15 Rail** 1 (1.5) mm² (16 AWG)	2250 Series	282
	**Miniature Through and Ground Conductor Terminal Blocks; with Push-Buttons; for DIN-15 Rail** 2.5 (4) mm² (12 AWG)	2252 Series	283
	**Miniature Through and Ground Conductor Terminal Blocks; for DIN-15 Rail** 1 (1.5) mm² (16 AWG)	2050 Series	284
	**Miniature Through and Ground Conductor Terminal Blocks; for DIN-15 Rail** 2.5 (4) mm² (12 AWG)	2052 Series	285
	**Miniature ThroughTerminal Blocks; with Push-Buttons; with Mounting Flanges and Snap-In Mounting Feet** 1 (1.5) mm² (16 AWG)	2250 Series	286
	**Miniature ThroughTerminal Blocks; with Push-Buttons; with Mounting Flanges and Snap-In Mounting Feet** 2.5 (4) mm² (12 AWG)	2252 Series	288
	**Miniature ThroughTerminal Blocks; with Mounting Flanges and Snap-In Mounting Feet** 1 (1.5) mm² (16 AWG)	2050 Series	290
	**Miniature ThroughTerminal Blocks; with Mounting Flanges and Snap-In Mounting Feet** 2.5 (4) mm² (12 AWG)	2052 Series	292

Miniature Rail-Mount Terminal Blocks TOPJOB® S; with/without push-buttons and with Push-in CAGE CLAMP® 2250 and 2050 Series

Description and Installation



Insert ferruled conductors via push-in termination.



Insert fine-stranded conductors via operating tool.



Remove all conductors via operating tool.

4



Insert a jumper (star point jumper) and push down until it hits the backstop.



Insert a jumper (delta jumper) and push down until it hits the backstop.





Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper



Snapping a marking strip (2009-110) into a marker slot.



Snapping a WMB marking strip into a marker slot.



Push-in CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands



Insert ferruled conductors via push-in termination.



Insert fine-stranded conductors via operating tool.



Remove all conductors via operating tool.



Mounting a terminal strip with snap-in feet into holes.



Terminal strip; with snap-in mounting feet
Snapping a mounting foot (209-120)
(Distance between mounting feet: approx. 20 … 25 mm)



Terminal strip; with snap-in mounting feet; for DIN-35 rail
(209-120 Mounting Foot)



Mounting and securing a terminal strip directly to the plate via screw-type flanges



Terminal strip; with mounting flanges; screw mounting



Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

PUSH-IN CAGE CLAMP®

Miniature Through Terminal Block and Ground Conductor Terminal Block TOPJOB® S; with Push-Button; for DIN-15 Rail

1 (1.5) mm²; 2250 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 10 A
I_N 13.5 A (17.5 A)	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
352 V; 13.5 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor miniature through terminal block; with push-button; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	2250-1201 ❹	100
blue	2250-1204 ❸ ❹	100
orange	2250-1202 ❹	100
red	2250-1203 ❹	100
black	2250-1205 ❹	100
yellow	2250-1206 ❹	100
brown	2250-1201/000-014 ❹	100

2-conductor miniature ground terminal block; with push-button; for DIN-15 rail

green-yellow	2250-1207 ❹	100

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1.1 mm thick



gray	2050-1291	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2000-405/011-000	25

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch
Only for test purposes



gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot
Only for test purposes



gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2000-549	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB Marker Card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Screwless end stop; for DIN-15 rail; 6 mm wide



gray	249-101	25

Steel DIN-rail; per EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



slotted	210-111	10 (1)
unslotted	210-295	10 (1)

Aluminum DIN-rail; similar to EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



unslotted	210-296	1

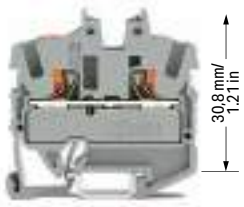
PUSH-IN CAGE CLAMP®

Miniature Through Terminal Block and Ground Conductor Terminal Block TOPJOB® S; with Push-Button; for DIN-15 Rail

2.5 (4) mm²; 2252 Series

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor miniature through terminal block; with push-button; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	2252-1201 ❹	100
blue	2252-1204 ❸ ❹	100
orange	2252-1202 ❹	100
red	2252-1203 ❹	100
black	2252-1205 ❹	100
yellow	2252-1206 ❹	100
brown	2252-1201/000-014 ❹	100

2-conductor miniature ground terminal block; with push-button; for DIN-15 rail

green-yellow	2252-1207 ❹	100

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1.1 mm thick



gray	2052-1291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

L-type test plug module; snaps together



gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks,



gray	2002-649	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Screwless end stop; for DIN-15 rail; 6 mm wide



gray	249-101	25

Steel DIN-rail; per EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



slotted	210-111	10 (1)
unslotted	210-295	10 (1)

Aluminum DIN-rail; similar to EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



unslotted	210-296	1

4

PUSH-IN CAGE CLAMP®

Miniature Through Terminal Block and Ground Conductor Terminal Block TOPJOB® S; for DIN-15 Rail

1 (1.5) mm²; 2050 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 10 A
I_N 13.5 A (17.5 A)	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
352 V; 13.5 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor miniature through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	2050-1201 ❹	100
blue	2050-1204 ❸ ❹	100
orange	2050-1202 ❹	100
red	2050-1203 ❹	100
black	2050-1205 ❹	100
yellow	2050-1206 ❹	100
brown	2050-1201/000-014 ❹	100

2-conductor miniature ground terminal block; for DIN-15 rail

green-yellow	2050-1207 ❹	100

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1.1 mm thick



gray	2050-1291	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2000-405/011-000	25

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch
Only for test purposes



gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot
Only for test purposes



gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2000-549	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB Marker Card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Screwless end stop; for DIN-15 rail; 6 mm wide



gray	249-101	25

Steel DIN-rail; per EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



slotted	210-111	10 (1)
unslotted	210-295	10 (1)

Aluminum DIN-rail; similar to EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



unslotted	210-296	1

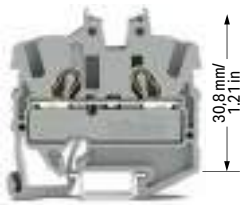
PUSH-IN CAGE CLAMP®

Miniature Through Terminal Block and Ground Conductor Terminal Block TOPJOB® S; for DIN-15 Rail

2.5 (4) mm²; 2052 Series

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor miniature through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	2052-1201 ❹	100
blue	2052-1204 ❸ ❹	100
orange	2052-1202 ❹	100
red	2052-1203 ❹	100
black	2052-1205 ❹	100
yellow	2052-1206 ❹	100
brown	2052-1201/000-014 ❹	100

2-conductor miniature ground terminal block; for DIN-15 rail

green-yellow	2052-1207 ❹	100

Accessories; 2052 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1.1 mm thick



gray	2052-1291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2052 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray



1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Accessories; 2052 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A, light gray



3-way	2002-413	25
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

L-type test plug module; snaps together



gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks,



gray	2002-649	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Test plug adapter; for 4 mm Ø test plug



gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²



gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Screwless end stop; for DIN-15 rail; 6 mm wide



gray	249-101	25

Steel DIN-rail; per EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



slotted	210-111	10 (1)
unslotted	210-295	10 (1)

Aluminum DIN-rail; similar to EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



unslotted	210-296	1

4

PUSH-IN CAGE CLAMP®

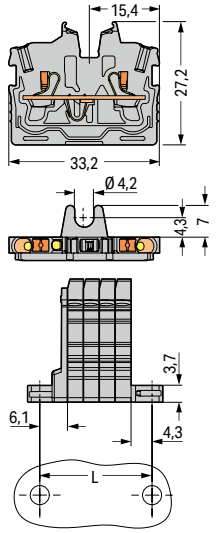
Miniature Through Terminal Block TOPJOB® S; with Push-Button; with Mounting Flange
1 (1.5) mm²; 2250 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 10 A
I_N 13.5 A (17.5 A)	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Dimensions (in mm):

Modular terminal blocks and terminal strips with mounting flanges
L = (pole no. x 3.5 mm) + 4.3 mm + 6.1 mm



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
352 V; 13.5 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor miniature through terminal block; with push-button; end terminal block with mounting flange; for screw or similar mounting types; 4.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2250-301 ❹	100
blue	2250-304 ❸ ❹	100
orange	2250-302 ❹	100
red	2250-303 ❹	100
black	2250-305 ❹	100
yellow	2250-306 ❹	100
brown	2250-301/000-014 ❹	100
green-yellow	2250-307 ❹	100

2-conductor miniature through terminal block; with push-button; center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2250-321 ❹	100
blue	2250-324 ❸ ❹	100
orange	2250-322 ❹	100
red	2250-323 ❹	100
black	2250-325 ❹	100
yellow	2250-326 ❹	100
brown	2250-321/000-014 ❹	100
green-yellow	2250-327 ❹	100

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; with mounting flange; 1.3 mm thick



gray	2050-381	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch
Only for test purposes



gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot
Only for test purposes



gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2000-549	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB Marker Card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray	209-123	25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray	209-137	25

PUSH-IN CAGE CLAMP®

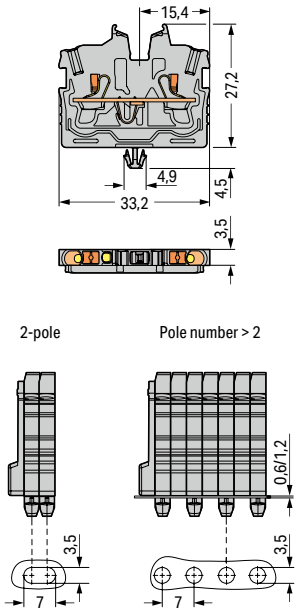
Miniature Through Terminal Block TOPJOB® S; with Push-Button; with Snap-In Mounting Foot
1 (1.5) mm²; 2250 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 10 A
I_N 13.5 A (17.5 A)	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Dimensions (in mm):

Modular terminal blocks and terminal strips with snap-in mounting feet



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
352 V; 13.5 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor miniature through terminal block; with push-button; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum DIN-rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2250-311 ❹	100
blue	2250-314 ❸ ❹	100
orange	2250-312 ❹	100
red	2250-313 ❹	100
black	2250-315 ❹	100
yellow	2250-316 ❹	100
brown	2250-311/000-014 ❹	100
green-yellow	2250-317 ❹	100

2-conductor miniature through terminal block; with push-button; center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2250-321 ❹	100
blue	2250-324 ❸ ❹	100
orange	2250-322 ❹	100
red	2250-323 ❹	100
green-yellow	2250-327 ❹	100

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick



gray	2050-391	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Accessories; 2250 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch
Only for test purposes



gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot
Only for test purposes



gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2000-549	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB Marker Card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Aluminum DIN-rail; 1000 mm long; 18 mm wide; 7 mm high



	210-154	1

Plastic end stop; with WSB marker slot; for aluminum DIN-rail (210-154); 6 mm wide



	209-122	25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray	209-120	25

Mounting screw; for mounting foot (209-120)



	209-119	500 (50)

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray	209-137	25

4

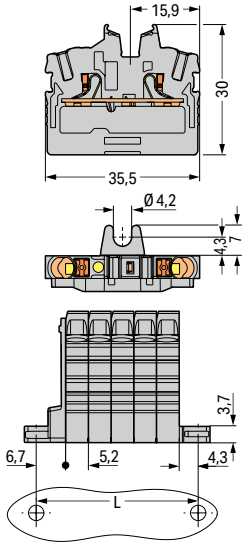
Miniature Through Terminal Block TOPJOB® S; with Push-Button; with Mounting Flange
2.5 (4) mm²; 2252 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges
L = (pole no. x 5.2 mm) + 4.3 mm + 6.7 mm



2-conductor miniature through terminal block; with push-button; end terminal block with mounting flange; for screw or similar mounting types; 4.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2252-301 ❹	100
blue	2252-304 ❸ ❹	100
orange	2252-302 ❹	100
red	2252-303 ❹	100
black	2252-305 ❹	100
yellow	2252-306 ❹	100
brown	2252-301/000-014 ❹	100
green-yellow	2252-307 ❹	100

2-conductor miniature through terminal block; with push-button; Center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2252-321 ❹	100
blue	2252-324 ❸ ❹	100
orange	2252-322 ❹	100
red	2252-323 ❹	100
black	2252-325 ❹	100
yellow	2252-326 ❹	100
brown	2252-321/000-014 ❹	100
green-yellow	2252-327 ❹	100

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; with mounting flange; 1.3 mm thick



gray	2052-381	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A; light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

L-type test plug module; snaps together



gray	2002-611	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray	209-123	25

Mounting adapter; for DIN-35 rail; can be used as an end stop; 6.5 mm wide



gray	209-137	25

PUSH-IN CAGE CLAMP®

Miniature Through Terminal Block TOPJOB® S; with Push-Button; with Snap-In Mounting Foot
2.5 (4) mm²; 2252 Series

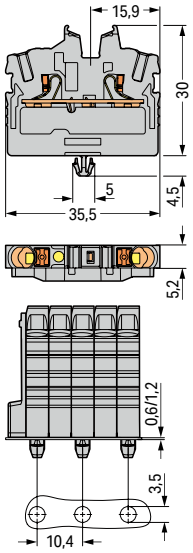
Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions in mm

Modular terminal blocks and terminal strips with snap-in mounting feet



2-conductor miniature through terminal block; with push-button on one side; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum DIN-rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2252-311 ❹	100
blue	2252-314 ❸ ❹	100
orange	2252-312 ❹	100
red	2252-313 ❹	100
black	2252-315 ❹	100
yellow	2252-316 ❹	100
brown	2252-311/000-014 ❹	100
green-yellow	2252-317 ❹	100

2-conductor miniature through terminal block; with push-button; Center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2252-321 ❹	100
blue	2252-324 ❸ ❹	100
orange	2252-322 ❹	100
red	2252-323 ❹	100
black	2252-325 ❹	100
yellow	2252-326 ❹	100
brown	2252-321/000-014 ❹	100
green-yellow	2252-327 ❹	100

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2252 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick



gray	2052-391	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Accessories; 2252 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A; light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

L-type test plug module; snaps together



gray	2002-611	100 (25)

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Aluminum DIN-rail; 1000 mm long; 18 mm wide; 7 mm high



	210-154	1

Plastic end stop; with WSB marker slot; for aluminum DIN-rail (210-154); 6 mm wide



	209-122	25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray	209-120	25

Mounting screw; for mounting foot (209-120)



	209-119	500 (50)

Mounting adapter; for DIN-35 rail; can be used as an end stop; 6.5 mm wide



gray	209-137	25

4

PUSH-IN CAGE CLAMP®

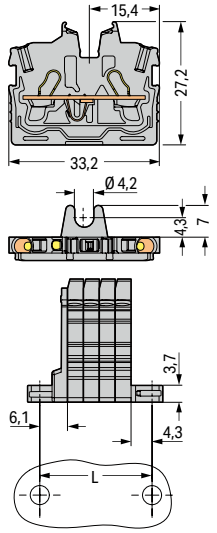
Miniature Through Terminal Block TOPJOB® S; with Mounting Flange
1 (1.5) mm²; 2050 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 10 A
I_N 13.5 A (17.5 A)	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Dimensions (in mm):

Modular terminal blocks and terminal strips with mounting flanges
L = (pole no. x 3.5 mm) + 4.3 mm + 6.1 mm



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st";
Push-in termination: 0.5 … 1.5 mm² "s" and
0.5 … 0.75 mm² "insulated ferrules; 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
352 V; 13.5 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor miniature through terminal block; with mounting flange; for screw or similar mounting types; 4.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2050-301 ❹	100
blue	2050-304 ❸ ❹	100
orange	2050-302 ❹	100
red	2050-303 ❹	100
black	2050-305 ❹	100
yellow	2050-306 ❹	100
brown	2050-301/000-014 ❹	100
green-yellow	2050-307 ❹	100

2-conductor miniature through terminal block; center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2050-321 ❹	100
blue	2050-324 ❸ ❹	100
orange	2050-322 ❹	100
red	2050-323 ❹	100
black	2050-325 ❹	100
yellow	2050-326 ❹	100
brown	2050-321/000-014 ❹	100
green-yellow	2050-327 ❹	100

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; with mounting flange; 1.3 mm thick



gray	2050-381	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2000-115	100 (25)

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

**Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch
Only for test purposes**



gray	2000-511	100 (25)

**Modular connector; snaps together; for jumper contact slot
Only for test purposes**



gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray	2000-549	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white	2009-113	1

WMB Marker Card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray	209-123	25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray	209-137	25

PUSH-IN CAGE CLAMP®

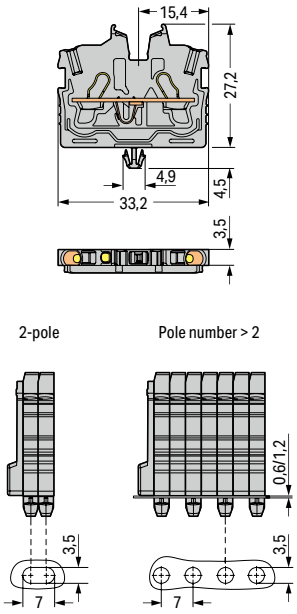
Miniature Through Terminal Block TOPJOB® S; with Snap-In Mounting Foot
1 (1.5) mm²; 2050 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V / 6 kV / 3 ❷	300 V, 10 A
I_N 13.5 A (17.5 A)	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Dimensions (in mm):

Modular terminal blocks and terminal strips with snap-in mounting feet



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
352 V; 13.5 A
12 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 176
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor miniature through terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum DIN-rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2050-311 ❹	100
blue	2050-314 ❸ ❹	100
orange	2050-312 ❹	100
red	2050-313 ❹	100
black	2050-315 ❹	100
yellow	2050-316 ❹	100
brown	2050-311/000-014 ❹	100
green-yellow	2050-317 ❹	100

2-conductor miniature through terminal block; center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2050-321 ❹	100
blue	2050-324 ❸ ❹	100
orange	2050-322 ❹	100
red	2050-323 ❹	100
black	2050-325 ❹	100
green-yellow	2050-327 ❹	100

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick



gray | 2050-391 | 100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray



2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray



1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6 | 2000-406/020-000 | 25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5 | 2000-405/011-000 | 25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A



L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow | 2000-115 | 100 (25)

Accessories; 2050 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot Terminal block width: 5 mm / 0.197 inch Only for test purposes



gray | 2000-511 | 100 (25)

Modular connector; snaps together; for jumper contact slot Only for test purposes



gray | 2000-510 | 100 (25)

Spacer module; snaps together; bridges commoned terminal blocks



gray | 2000-549 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red | 210-136 | 50

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel



white | 2009-113 | 1

WMB Marker Card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain | 793-3501 | 5

Aluminum DIN-rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 | 1

Plastic end stop; with WSB marker slot; for aluminum DIN-rail (210-154); 6 mm wide



209-122 | 25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray | 209-120 | 25

Mounting screw; for mounting foot (209-120)



209-119 | 500 (50)

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray | 209-137 | 25

PUSH-IN CAGE CLAMP®

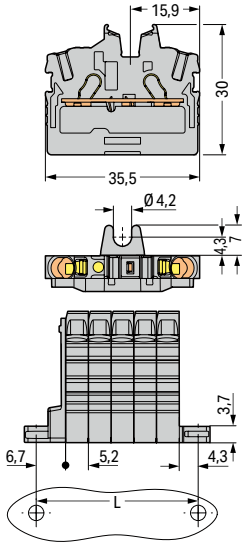
Miniature Through Terminal Block TOPJOB® S; with Mounting Flange
2.5 (4) mm²; 2052 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges
L = (pole no. x 5.2 mm) + 4.3 mm + 6.7 mm



2-conductor miniature through terminal block; with mounting flange; for screw or similar mounting types; 4.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2052-301 ❹	100
blue	2052-304 ❸ ❹	100
orange	2052-302 ❹	100
red	2052-303 ❹	100
black	2052-305 ❹	100
yellow	2052-306 ❹	100
brown	2052-301/000-014 ❹	100
green-yellow	2052-307 ❹	100

2-conductor miniature through terminal block; Center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2052-321 ❹	100
blue	2052-324 ❸ ❹	100
orange	2052-322 ❹	100
red	2052-323 ❹	100
black	2052-325 ❹	100
yellow	2052-326 ❹	100
brown	2052-321/000-014 ❹	100
green-yellow	2052-327 ❹	100

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; with mounting flange; 1.3 mm thick



gray	2052-381	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2052-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2052-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A; light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

L-type test plug module; snaps together



gray	2002-611	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray	209-123	25

Mounting adapter; for DIN-35 rail; can be used as an end stop; 6.5 mm wide



gray	209-137	25

PUSH-IN CAGE CLAMP®

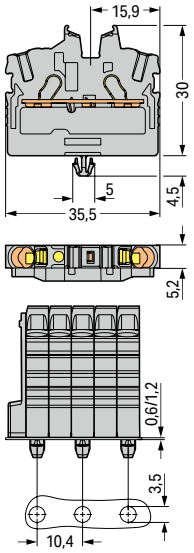
Miniature Through Terminal Block TOPJOB® S; with Snap-In Mounting Foot
2.5 (4) mm²; 2052 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions in mm

Modular terminal blocks and terminal strips with snap-in mounting feet



2-conductor miniature through terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum DIN-rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	2052-311 ❹	100
blue	2052-314 ❸ ❹	100
orange	2052-312 ❹	100
red	2052-313 ❹	100
black	2052-315 ❹	100
yellow	2052-316 ❹	100
brown	2052-311/000-014 ❹	100
green-yellow	2052-317 ❹	100

2-conductor miniature through terminal block; Center terminal block; without snap-in mounting foot; without mounting flange; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

gray	2052-321 ❹	100
blue	2052-324 ❸ ❹	100
orange	2052-322 ❹	100
red	2052-323 ❹	100
black	2052-325 ❹	100
yellow	2052-326 ❹	100
brown	2052-321/000-014 ❹	100
green-yellow	2052-327 ❹	100

❶ Conductor range: 0.25 … 4 mm² "s+f-st"
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 15)

Please observe the application notes:
Jumpers, from page 182
Testing accessories, from page 177
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick



gray	2052-391	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²



dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray



2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray



1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray



1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray



1-3-5	2002-405/011-000	25

Accessories; 2252 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Continuous jumper; insulated; I_N 25 A; light gray

1-2	2002-400	25

Continuous jumper; insulated; I_N 25 A; light gray



1 to 3	2002-423	25
1 to 4	2002-424	25

Continuous jumper; insulated; I_N 25 A; light gray



3-way	2002-413	25
5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray



2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A



L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	2002-115	100 (25)

L-type test plug module; snaps together



gray	2002-611	100 (25)

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Aluminum DIN-rail; 1000 mm long; 18 mm wide; 7 mm high



	210-154	1

Plastic end stop; with WSB marker slot; for aluminum DIN-rail (210-154); 6 mm wide



	209-122	25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray	209-120	25

Mounting adapter; for DIN-35 rail; can be used as an end stop; 6.5 mm wide



gray	209-137	25



WAGO High-Current Rail-Mount Terminal Blocks

POWER CAGE CLAMP®

WAGO High-Current Rail-Mount Terminal Blocks

			Page
	**Through Terminal Blocks and Ground Conductor Terminal Blocks** 6 … 35 mm² (10 … 2 AWG)	285 Series	298
	**Power Taps; for 35 mm² (2 AWG) Terminal Blocks** 0.2 … 6 mm² (24 … 10 AWG)	285 Series	298
	**Through Terminal Blocks and Ground Conductor Terminal Blocks** 10 … 50 (70) mm² (8 … 1/0 AWG)	285 Series	302
	**Power Taps; for 50 mm² (1/0 AWG) Terminal Blocks** 0.2 … 6 mm² (24 … 10 AWG)	285 Series	302
	**Through Terminal Blocks; with Mounting Flanges** 10 … 50 (70) mm² (8 … 1/0 AWG)	285 Series	303
	**Through Terminal Blocks and Ground Conductor Terminal Blocks** 25 … 95 mm² (4 … 4/0 AWG)	285 Series	304
	**Power Taps; for 95 mm² (4/0 AWG) Terminal Blocks** 0.2 … 10 (16) mm² (24 … 8 AWG)	285 Series	304
	**Through Terminal Blocks; with Mounting Flanges** 25 … 95 mm² (4 … 4/0 AWG)	285 Series	305
	**Through Terminal Blocks and Ground Conductor Terminal Blocks** 50 … 185 mm² (1/0 AWG … 350 kcmil)	285 Series	306
	**Power Taps; for 185 mm² (350 kcmil) Terminal Blocks** 0.2 … 10 (16) mm² (24 … 8 AWG)	285 Series	306
	**Through Terminal Blocks; with Mounting Flanges** 50 … 185 mm² (1/0 AWG … 350 kcmil)	285 Series	307

High-Current Rail-Mount Terminal Blocks; 35 mm²
285 Series
Description and Installation



Conductor termination – step 1:
Rotate the operating tool (5.5 mm blade width) counter-clockwise. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.



Conductor termination – step 3:
A short counter-clockwise rotation closes the clamp, securing the conductor ①.
When unlocked, allow operating tool to rotate clockwise ② to securely terminate the conductor.

5



The power tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate.



Testing
Voltage measurements can be performed (e.g., via 2-pole 206-707 Voltage Tester).





Testing with test plug adapter (283-404).



High-current rail-mount terminal blocks, 35 mm² (2 AWG) and 50 mm² (2/0 AWG)



POWER CAGE CLAMP terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded, also with tinned single strands

POWER CAGE CLAMP®



Commoning adjacent terminal blocks using a centrally positioned push-in jumper.



Slide the marking strip laterally to remove the jumper.



Commoning 35 mm² (2 AWG) POWER CAGE CLAMP Terminal Blocks with 10/16 mm² (8/6 AWG) 2010 and 2016 Series Terminal Blocks TOPJOP® S using step-down jumpers (not valid for 2016-76xx and 2016-77xx).



Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

In this case, pay attention that:
The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.



Side-entry wiring means that even larger conductors, which have limited flexibility, can be easily connected.



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



Marker carrier (285-442) for marking strip (2009-110) or 2 x WMB markers

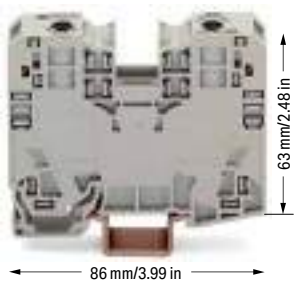


fine-stranded,
with ferrule
(gastight crimped)

POWER CAGE CLAMP®

High-Current Through Terminal Block, High-Current Ground Conductor Terminal Block
35 mm²; 285 Series

Technical Data	
6 … 35 mm²	8 … 2 AWG
1000 V / 8 kV / 3 ❶	600 V, 115 A
I_N 125 A	600 V, 115 A
Terminal block width: 16 mm / 0.63 inch	
25 mm / 0.98 inch	



Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V / 8 kV / 3 ❷	600 V, 30 A
I_N 32 A	600 V, 32 A
Module width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
880 V, 101 A
1 jumper, 85 A
4 … 5 jumpers, 75 A
(see Section 15)

Please observe the application notes:
Step-down jumpers, see page 297
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

5

2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-135	15
blue	285-134	15
light gray	285-935 ❸	15
dark gray/yellow	285-131	15

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

green-yellow	285-137	15
green-yellow	285-137/999-950 ❸	15

Power tap; for 35 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-427	5

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long



unslotted | 210-198 | 10

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide



gray | 285-442 | 25

Screwless end stop; for DIN-35 rail; 14 mm wide



gray | 249-197 | 10

Accessories; item-specific

Adjacent jumper; insulated; I_N 85 A



gray | 285-435 | 50 (25)

Step-down jumper; insulated; I_N 90 A



gray | 285-430 | 50 (25)

Protective warning marker; with a black high-voltage symbol



yellow | 285-420 | 100 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow | 285-421 | 100 (25)

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plug; for 1.5 … 16 mm² terminal blocks



gray | 283-404 | 25

Three-phase set; with 35 mm² high-current terminal blocks



285-139 | 1

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray | 283-407 | 25

Operating tool with a partially insulated shaft; type 3; (5.5 x 0.8) mm blade



210-721 | 25 (1)

Accessories; item-specific

Strain relief plate; gray



1-pole | 769-410 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



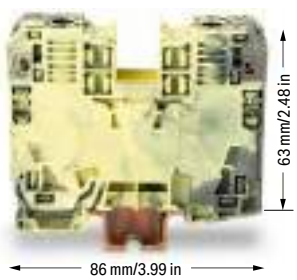
red | 210-136 | 50 (1)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



2-conductor through terminal block, dark gray/yellow (285-131), for ground connection without contact to the DIN-rail



Always push voltage tap (283-407) down into the terminal block until fully inserted!

High-Current Rail-Mount Terminal Blocks; 50 … 185 mm²
285 Series
Description and Installation



Conductor termination – step 1:
Rotate the T-wrench counter-clockwise to the stop ①. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.



Conductor termination – step 3:
A short counter-clockwise rotation ② releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

5



For the optimal clamping force:
- Bend conductor.
- Cut conductor to length (conductor end must be straight).
- Stripping a conductor.



Always observe the printed strip length!



Grounding foot:
Ground conductor terminal blocks (limited to max. 120 mm²/250 kcmil per EN 60947-7-2) must be snapped onto a 2.3 mm thick copper DIN-rail.



Protective warning marker may indicate::
Notice: Power is still on even after switching off the main switch!



Risk of injury!
Do not insert fingers in the conductor entry!



Yellow, detachable finger guards provide touch-proof safety by shielding jumper contact slots and/or unused conductor entries.



POWER CAGE CLAMP terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

POWER CAGE CLAMP®



Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.



Removing jumper via operating tool.



Reliably and easily tap directly into the power supply. Insert the unwired tap before opening the clamping unit.





Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).



Testing
Voltage measurements can be performed (e.g., via 2-pole 206-707 Voltage Tester).



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.

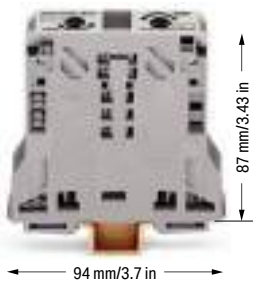


fine-stranded,
with ferrule
(gastight crimped)

POWER CAGE CLAMP®

High-Current Through Terminal Block, High-Current Ground Conductor Terminal Block
50 (70 “f-st”) mm²; 285 Series

Technical Data	
10 … 50 (70 “f-st”) mm²	8 … 1/0 AWG
1000 V / 8 kV / 3 ❶	600 V, 150 A
I_N 150 A	600 V, 150 A
Terminal block width: 20 mm / 0.787 inch	
30 mm / 1.18 inch	



Technical Data	
0.2 … 6 mm²	24 … 10 AWG
1000 V / 8 kV / 3 ❶	600 V, 30 A
I_N 41 A	600 V, 41 A
Module width: 16 mm / 0.63 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
880 V, 134 A
(see Section 15)

Adjacent jumpers (285-450) can only be removed or inserted when the clamp is closed.

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

5

2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-150	5
blue	285-154	5
light gray	285-950 ❷	5
dark gray/yellow	285-151	5

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

Color	Item No.	Pack. Unit
green-yellow	285-157	5
green-yellow	285-157/999-950 ❷	5

Power tap; for 50 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-447	5

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide



gray | 285-442 | 25

Accessories; item-specific

Adjacent jumper; insulated; I_N 150 A, for 1 jumper; I_N 130 A, for 2 … 4 jumpers



gray | 285-450 | 100 (25)

Protective warning marker; with a black high-voltage symbol



yellow | 285-440 | 50 (25)

Protective warning marker; with a black high-voltage symbol



yellow | 285-449 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots



yellow | 285-441 | 100 (25)

Three-phase set; with 50 mm² high-current terminal blocks



285-159 | 1

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long



unslotted | 210-198 | 10

Screwless end stop; for DIN-35 rail; 14 mm wide



gray | 249-197 | 10

T-wrench with a partially insulated shaft



285-172 | 1

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



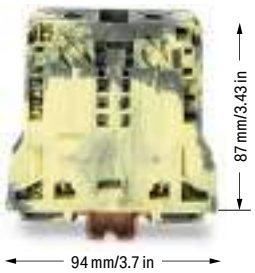
yellow | 282-415 | 50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



2-conductor through terminal block, dark gray/yellow (285-151), for ground connection without contact to the DIN-rail



Marker carrier (285-442) for marking strip (2009-110) or 2 x WMB markers

POWER CAGE CLAMP®

High-Current Through Terminal Block; with Mounting Flanges
50 (70 “f-st”) mm²; 285 Series

Technical Data	
10 … 50 (70 “f-st”) mm²	8 … 1/0 AWG
1000 V / 8 kV / 3 ❶	600 V, 150 A
I_N 150 A	600 V, 150 A
Terminal block width: 20 mm / 0.787 inch	
30 mm / 1.18 inch	



2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
gray	285-141	5
blue	285-144	5
light gray	285-143 ❷	5

Technical Data	
10 … 50 (70 “f-st”) mm²	8 … 1/0 AWG
1000 V / 8 kV / 3 ❶	600 V, 150 A
I_N 150 A	600 V, 150 A
Terminal block width: 20 mm / 0.787 inch	
30 mm / 1.18 inch	



2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
dark gray/yellow	285-147	5
dark gray/yellow	285-147/999-950 ❷	5

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
880 V, 134 A
(see Section 15)

Adjacent jumpers (285-450) can only be removed or inserted when the clamp is closed.

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Optionally, insert block-to-block connector (285-448) into housing slot.

Accessories; for high-current terminal blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper; insulated; I_N 150 A, for 1 jumper; I_N 130 A, for 2 … 4 jumpers



gray	285-450	100 (25)

Block-to-block connector; for 50 mm² high-current terminal blocks



orange	285-448	50 (25)

Protective warning marker; with a black high-voltage symbol



yellow	285-440	50 (25)

Protective warning marker; with a black high-voltage symbol



yellow	285-449	25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots



yellow	285-441	100 (25)

Three-phase set; with 50 mm² high-current terminal blocks



	285-148	1

Power tap; for 50 mm² high-current terminal blocks



gray	285-447	5

T-wrench with a partially insulated shaft



	285-172	1

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	793-501	5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

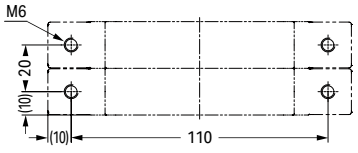
Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide



gray	285-442	25



Align and snap high-current, through terminal blocks together.

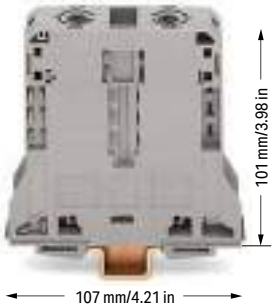


Dimensions (in mm):
Drill hole separation distance

POWER CAGE CLAMP®

High-Current Through Terminal Block, High-Current Ground Conductor Terminal Block
95 mm²; 285 Series

Technical Data	
25 … 95 mm²	4 … 4/0 AWG
1000 VAC/DC/1500 VDC/12 kV / 3 ❷	600 V, 200 A
I_N 232 A	1000 V, 210 A
Terminal block width: 25 mm / 0.984 inch	
35 mm / 1.38 inch	



Technical Data	
0.2 … 10 (16) mm² ❶	24 … 8 AWG
1000 V / 8 kV / 3 ❸	600 V, 50 A
I_N 57 A	600 V, 57 A
Module width: 20 mm / 0.787 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ Power tap; for 95 mm² high-current terminal blocks
Max. conductor size: 16 mm²

❷ 1000 VAC/DC
1500 VDC = rated voltage
12 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
25 … 95 mm² / 4 … 4/0 AWG
880 V, 211 A
1 jumper, 211 A
2 … 4 jumpers, 175 A
35 … 70 mm² / 2 … 2/0 AWG
for ground conductor terminal blocks
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

5

2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-195	5
blue	285-194	5
light gray	285-995 ❹	5
dark gray/yellow	285-191	5

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

Color	Item No.	Pack. Unit
green-yellow	285-197	5
green-yellow	285-197/999-950 ❹	5

Power tap; for 95 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-407	5

Accessories; item-specific

Adjacent jumper; insulated; I_N 232 A, for 1 jumper; I_N 192 A, for 2 … 4 jumpers



gray | 285-495 | 25

Protective warning marker; with a black high-voltage symbol



yellow | 285-170 | 50 (25)

Protective warning marker; with a black high-voltage symbol



yellow | 285-175 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots



yellow | 285-169 | 25

Three-phase set; with 95 mm² high-current terminal blocks



285-199 | 1

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long



unslotted | 210-198 | 10

Screwless end stop; for DIN-35 rail; 14 mm wide



gray | 249-197 | 10

T-wrench with a partially insulated shaft



285-172 | 1

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



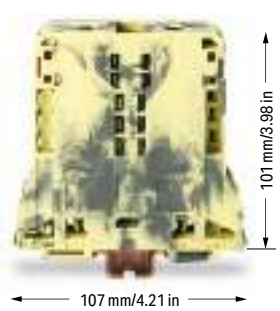
yellow | 284-415 | 50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



2-conductor through terminal block, dark gray/yellow (285-191), for ground connection without contact to the DIN-rail

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide



gray | 285-442 | 25



Marker carrier (285-442) for marking strip (2009-110) or 2 x WMB markers

POWER CAGE CLAMP®

High-Current Through Terminal Block; with Mounting Flanges
95 mm²; 285 Series

Technical Data	
25 … 95 mm²	4 … 4/0 AWG
1000 V / 8 kV / 3 ❶	600 V, 200 A
I_N 232 A	1000 V, 210 A
Terminal block width: 25 mm / 0.984 inch	
35 mm / 1.38 inch	



Technical Data	
25 … 95 mm²	4 … 4/0 AWG
1000 V / 8 kV / 3 ❶	600 V, 200 A
I_N 232 A	1000 V, 210 A
Terminal block width: 25 mm / 0.984 inch	
35 mm / 1.38 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

5

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
gray	285-181	5
blue	285-184	5

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
dark gray/yellow	285-187	5



Optionally, insert block-to-block connector (285-168) into housing slot.

Accessories; for high-current terminal blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper; insulated; I_N 232 A, for 1 jumper; I_N 192 A, for 2 … 4 jumpers
gray | 285-495 | 25

Block-to-block connector; for 95 mm² high-current terminal blocks
orange | 285-168 | 50 (25)

Protective warning marker; with a black high-voltage symbol
yellow | 285-170 | 25

Protective warning marker; with a black high-voltage symbol
yellow | 285-175 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots
yellow | 285-169 | 25

Three-phase set; with 95 mm² high-current terminal blocks
285-188 | 1

Power tap; for 95 mm² high-current terminal blocks
285-407 | 5

T-wrench with a partially insulated shaft
285-172 | 1

Marking strip; plain; 11 mm wide; 50 m reel
white | 2009-110 | 1

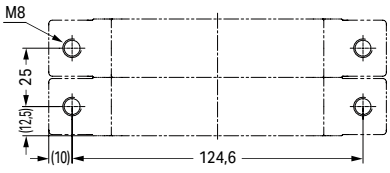
WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width
plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable
plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide
gray | 285-442 | 25



Align and snap high-current, through terminal blocks together.

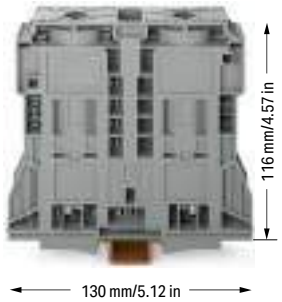


Dimensions (in mm):
Drill hole separation distance

POWER CAGE CLAMP®

High-Current Through Terminal Block, High-Current Ground Conductor Terminal Block
185 mm²; 285 Series

Technical Data	
50 … 185 mm² ❶	1/0 AWG … 350 kcmil
1000 VAC/DC/1500 VDC/12 kV / 3 ❸	600 V, 310 A
I_N 353 A	1000 V, 310 A
Terminal block width: 32 mm / 1.26 inch	
45 … 47 mm / 1.77 … 1.85 inch	



Technical Data	
0.2 … 10 (16) mm² ❷	24 … 8 AWG
1000 V / 8 kV / 3 ❹	600 V, 50 A
I_N 57 A	600 V, 50 A
Module width: 20 mm / 0.787 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ 50 … 120 mm² / 1/0 AWG … 250 kcmil
for ground conductor terminal blocks (285-1187)

❷ Power tap; for 185 mm² high-current terminal blocks
Max. conductor size: 16 mm²

❸ 1000 VAC/DC
1500 VDC = rated voltage
12 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❹ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
50 … 185 mm² / 1/0 AWG … 350 kcmil
1000 V, 250 A
1 jumper, 250 A
4 … 5 jumpers, 236 A
50 … 120 mm² / 1/0 AWG … 250 kcmil
for ground conductor terminal blocks
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

5

2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-1185	5
blue	285-1184	5
light gray	285-1189 ❺	5
dark gray/yellow	285-1181	5

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

Color	Item No.	Pack. Unit
green-yellow	285-1187	5
green-yellow	285-1187/999-950 ❺	5

Power tap; for 185 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-1175	5

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel



white 2009-110 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 793-501 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide



gray 285-442 25

Accessories; item-specific

Adjacent jumper; insulated; I_N 309 A for 1 jumper



gray 285-1171 25

Protective warning marker; with a black high-voltage symbol



yellow 285-1177 50 (25)

Protective warning marker; with a black high-voltage symbol



yellow 285-1176 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots



yellow 285-1178 25

Three-phase set; with 185 mm² high-current terminal blocks



285-1169 1

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long



unslotted 210-198 10

Screwless end stop; for DIN-35 rail; 14 mm wide



gray 249-197 10

T-wrench with a partially insulated shaft



285-172 1

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 284-415 50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 793-501 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5



Tapping directly into the power supply.



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.

POWER CAGE CLAMP®

High-Current Through Terminal Block; with Mounting Flanges
185 mm²; 285 Series

Technical Data	
50 … 185 mm²	1/0 AWG … 350 kcmil
1000 VAC/DC/1500 VDC/12 kV / 3 ❸ 600 V, 310 A	
I_N 353 A	1000 V, 310 A
Terminal block width: 32 mm / 1.26 inch	
45 … 47 mm / 1.77 … 1.85 inch	



Technical Data	
50 … 185 mm²	1/0 AWG … 350 kcmil
1000 VAC/DC/1500 VDC/12 kV / 3 ❸ 600 V, 310 A	
I_N 353 A	1000 V, 310 A
Terminal block width: 32 mm / 1.26 inch	
45 … 47 mm / 1.77 … 1.85 inch	



❶ 1000 VAC/DC
1500 VDC = rated voltage
12 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
50 … 185 mm² / 1/0 AWG … 350 kcmil
1000 V, 250 A
1 jumper, 250 A
4 … 5 jumpers, 236 A
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

5

2-conductor through terminal block; with mounting flanges

Color	Item No.	Pack. Unit
gray	285-1161	4
blue	285-1164	4
light gray Ex	285-1163 ❷	4

2-conductor through terminal block; with mounting flanges

Color	Item No.	Pack. Unit
dark gray/yellow	285-1167	4
dark gray/yellow Ex	285-1167/999-950 ❷	4

Accessories; for high-current terminal blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper; insulated; I_N 309 A for 1 jumper



gray | 285-1171 | 25

Block-to-block connector; for 185 mm² high-current terminal blocks



orange | 285-1179 | 50 (25)

Protective warning marker; with a black high-voltage symbol



yellow | 285-1177 | 50 (25)

Protective warning marker; with a black high-voltage symbol



yellow | 285-1176 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots



yellow | 285-1178 | 25

Three-phase set; with 185 mm² high-current terminal blocks



285-1165 | 1

Power tap; for 185 mm² high-current terminal blocks



285-1175 | 5

T-wrench with a partially insulated shaft



285-172 | 1

Marking strip; plain; 11 mm wide; 50 m reel



white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

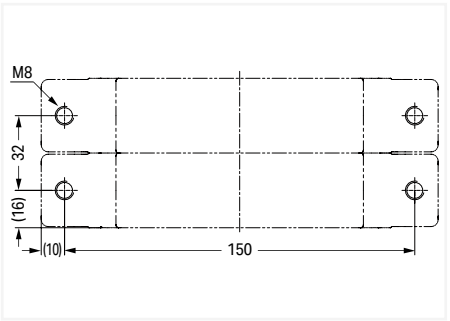
plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



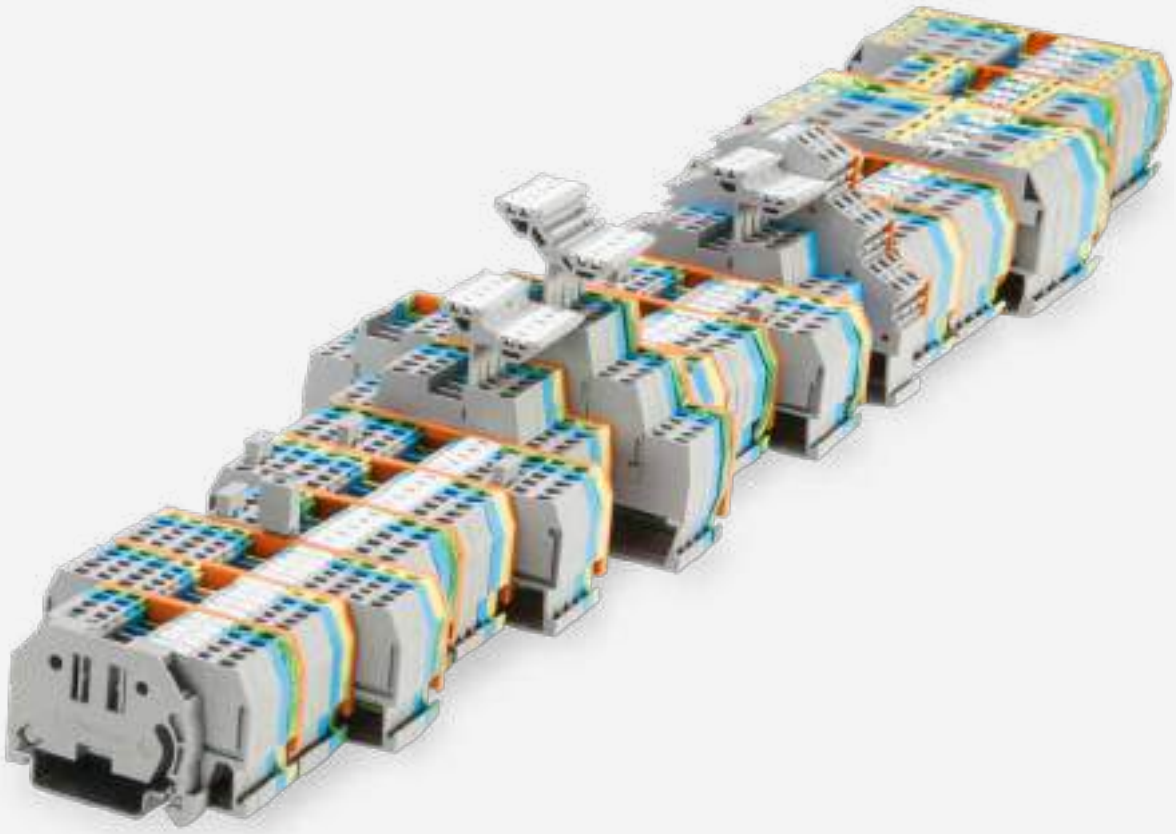
Optionally, insert block-to-block connector (285-1179) into housing slot.



Dimensions (in mm):
Drill hole separation distance



Secure the terminal block to a mounting plate using two M8 cylinder-head screws and appropriate washers.



WAGO Rail-Mount Terminal Blocks Classic

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® Classic

CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks Classic
WAGO Installation Rail-Mount Terminal Blocks TOPJOB® Classic

			Page
	**Through/Ground Conductor/Shield Conductor and Ex Terminal Blocks** 0.08 … 35 mm² (28 … 2 AWG) **Distribution Terminal Blocks** 10 mm² (8 AWG) / 35 mm² (2 AWG)	279 … 285 Series 284 Series	312 325
	**Multilevel Rail-Mount Terminal Blocks** 1.5/2.5/4 mm² (16/12 AWG)	279/280/281 Series	328
	**TOPJOB® Classic** **Through/Ground Conductor/Shield Conductor and Ex Terminal Blocks** 0.08 … 35 mm² (28 … 2 AWG)	780 … 785 Series	334
	**Disconnect/Test Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG) and 0.2 … 6 mm² (24 … 10 AWG)	280/281/282 Series	352
	**Disconnect/Ground Conductor Disconnect and Fuse Terminal Blocks** 0.2 … 6 mm² (24 … 10 AWG)	282 Series	368
	**Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder** 0.08 … 4 mm² (28 … 12 AWG) **Fused Disconnect Terminal Blocks for Cylindrical Fuses** 2.5 … 16 mm² (14 … 6 AWG)	281 Series 811 Series	374 382
	**Fuse Plugs on Carrier Terminal Blocks**	281/280 Series	378
	**Sensor and Actuator Terminal Blocks** 0.08 … 2.5 mm² (28 … 12 AWG)	280 Series	390
	**Diode and LED Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG)	279/280/281 Series	406
	**Multilevel Diode and LED Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG)	280/281 Series	412
	**Diode and LED Modules**	280 Series	416
	**Accessories for Rail-Mount Terminal Blocks**		420

6

Rail-Mount Terminal Blocks Classic
279 … 285 Series
Description and Installation



By snapping a ground conductor terminal block onto the DIN-rail, a direct electrical connection is automatically made to the rail.



Quick assembly keys prevent reverse mounting.



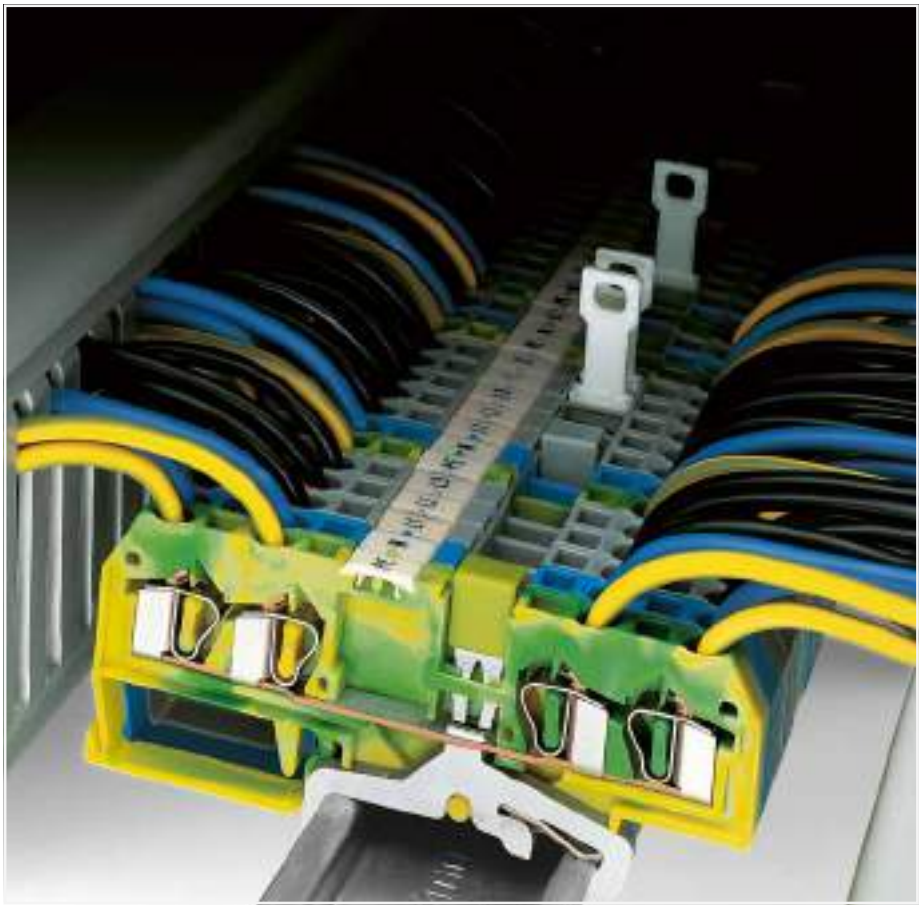
Removing a terminal block from the assembly.



Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.



Commoning terminal blocks of different sizes via step-down jumpers.



Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.



Inserting insulation stops.



Protective warning markers inserted into the operating slots



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.



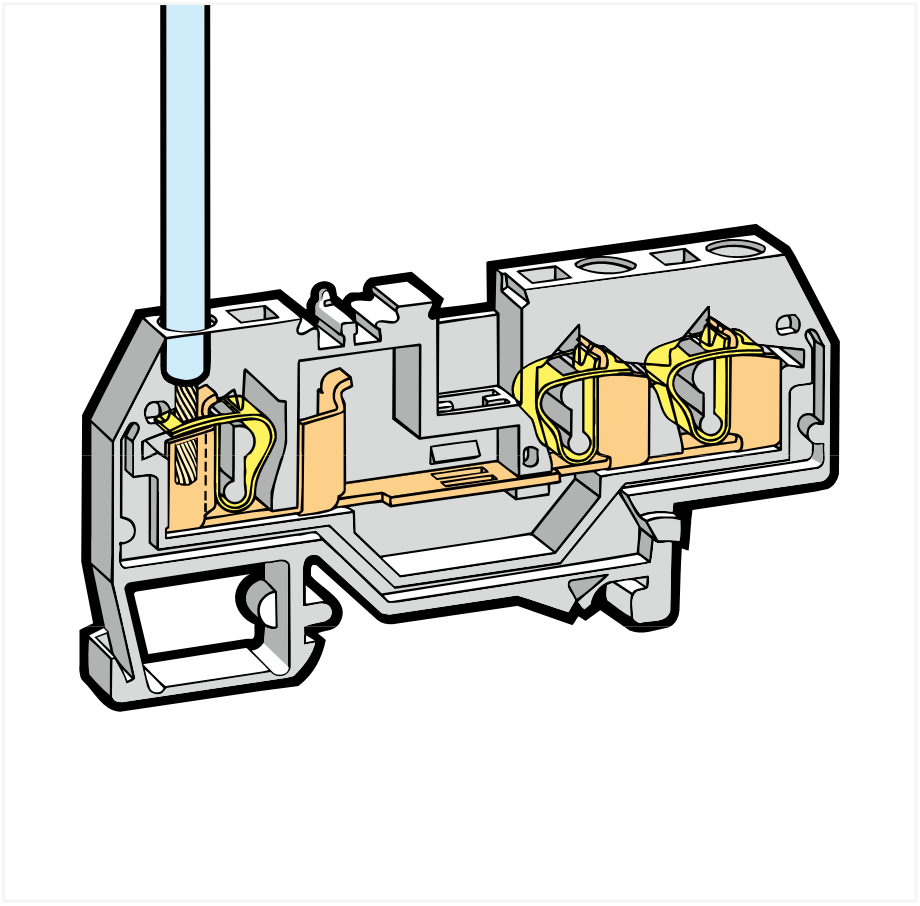
CAGE CLAMP® connection
Inserting a conductor.



CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.



Testing with a test plug.
(picture shows a test plug fitted with CAGE CLAMP®)





L-type test plug modules fitted with CAGE CLAMP®



B-type test plug modules fitted with CAGE CLAMP®



Labeling via WMB Multi Marking System.



Testing with a test plug.
(picture shows 209-170 Test Plug Adapter)



fine-stranded,
tip-bonded



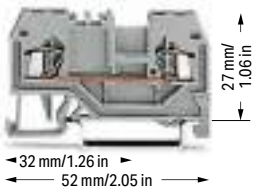
fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block
1.5 mm²; 279 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V / 8 kV / 3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-901	100
blue	279-904 ❷	100
orange	279-902	100
red	279-903	100
black	279-905	100
yellow	279-906	100
light gray	279-992 ❸	100

2-conductor ground terminal block

green-yellow	279-907	100
green-yellow	279-907/999-950 ❸	100

Other terminal blocks with the same profile:

Diode	279-915/281-410	Page 406

Accessories; item-specific

End and intermediate plate; 2 mm thick



orange	279-328	100 (25)
gray	279-325	100 (25)
light gray	279-330	100 (25)

Separator; oversized; 2 mm thick



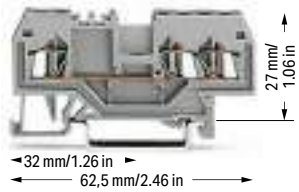
orange	279-329	100 (25)
gray	279-326	100 (25)
light gray	279-331	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V / 8 kV / 3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-681	100
blue	279-684 ❷	100
orange	279-682	100
red	279-683	100
black	279-685	100
yellow	279-686	100
light gray	279-993 ❸	100

3-conductor ground terminal block

green-yellow	279-687	100
green-yellow	279-687/999-950 ❸	100

Other terminal blocks with the same profile:

Diode	279-673/281-410	Page 406
LED	279-674/281-434	Page 406

Accessories; item-specific

End and intermediate plate; 2 mm thick



orange	279-339	100 (25)
gray	279-308	100 (25)
light gray	279-341	100 (25)

Separator; oversized; 2 mm thick



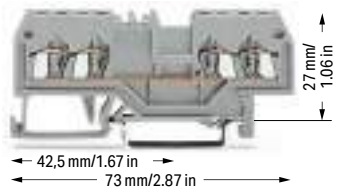
orange	279-340	100 (25)
gray	279-309	100 (25)
light gray	279-342	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V / 8 kV / 3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-831	100
blue	279-834 ❷	100
orange	279-832	100
red	279-833	100
black	279-835	100
yellow	279-836	100
light gray	279-994 ❸	100

4-conductor ground terminal block

green-yellow	279-837	100
green-yellow	279-837/999-950 ❸	100

4-conductor shield terminal block

white	279-838	100

Other terminal blocks with the same profile:

Diode	279-815/281-410	Page 406
LED	279-809/281-434	Page 406
Double-potential	279-826	Page 313

Accessories; item-specific

End and intermediate plate; 2 mm thick



orange	279-346	100 (25)
gray	279-344	100 (25)
light gray	279-348	100 (25)

Separator; oversized; 2 mm thick



orange	279-347	100 (25)
gray	279-345	100 (25)
light gray	279-349	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Step-down cover plate; 1 mm thick



gray	284-336	100 (25)
orange	284-346	100 (25)

Accessories; 279 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	279-470	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip



dark gray	279-471	200 (25)

Adjacent jumper; insulated; I_N 15 A



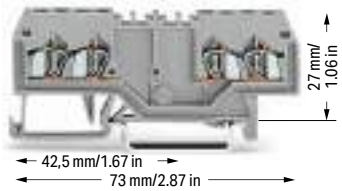
gray	279-402	200 (25)
yellow-green	279-422	200 (25)

Alternate jumper; insulated; I_N 15 A



gray	279-409	100 (25)

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V / 8 kV / 3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	279-826	100
light gray	279-995 ❸	100

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 1.5 mm² / 24 … 16 AWG
550 V; 15 A
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Push-in type wire jumper, page 427
Step-down jumper, page 327
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A



gray	284-414	50 (25)

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks



gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	279-482	200 (25)
3-way	279-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	279-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	279-492	200 (25)

Operating tool; insulated

2-way	279-432	1
3-way	279-433	1

Operating tool; insulated



10-way	279-440	1

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Accessories; item-specific

End and intermediate plate; 2 mm thick



orange	279-346	100 (25)
gray	279-344	100 (25)
light gray	279-348	100 (25)

Separator; oversized; 2 mm thick

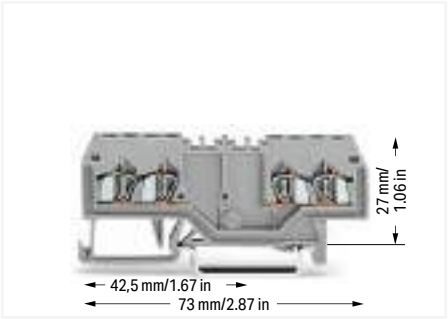


orange	279-347	100 (25)
gray	279-345	100 (25)
light gray	279-349	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	279-415	100 (25)



Notice: These double-potential terminal blocks cannot be commoned via adjacent jumpers!
Front-entry double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 4 mm. This achieves a width of just 2 mm versus standard through terminal blocks.
Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

For technical data and accessories, see www.wago.com



Marking directly on the terminal block via WMB markers.



Terminal block marking with double marker carriers (209-128)
Terminal blocks with side marking (see online catalog at www.wago.com)

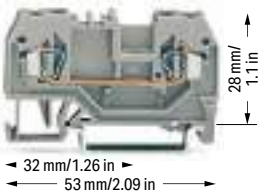
6

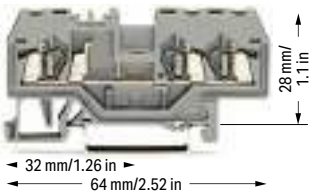
Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block
2.5 mm²; 280 Series

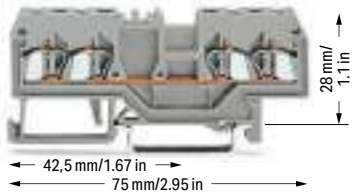
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 20 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	







2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-901	100
blue	280-904 ❷	100
orange	280-902	100
red	280-903	100
black	280-905	100
yellow	280-906	100
light gray	280-992 ❸	100

2-conductor ground terminal block

green-yellow	280-907	100
green-yellow	280-907/999-950 ❸	100

Other terminal blocks with the same profile:

Diode	280-915/281-410	Page 408
Disconnect	280-912	Page 354
Carrier	280-916	Page 380

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)
light gray	280-356	100 (25)

Separator; oversized; 2 mm thick

orange	280-311	100 (25)
gray	280-310	100 (25)
light gray	280-357	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Spacer with same profile; for 2-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-902/056-000	100 (25)

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-681	100
blue	280-684 ❷	100
orange	280-650	100
red	280-653	100
black	280-671	100
yellow	280-672	100
light gray	280-993 ❸	100

3-conductor ground terminal block

green-yellow	280-687	100
green-yellow	280-687/999-950 ❸	100

Other terminal blocks with the same profile:

Diode	280-673/281-410	Page 408
Disconnect	280-683	Page 354
Carrier	280-610	Page 380

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-326	100 (25)
gray	280-324	100 (25)
light gray	280-358	100 (25)

Separator; oversized; 2 mm thick

orange	280-346	100 (25)
gray	280-344	100 (25)
light gray	280-359	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Spacer with same profile; for 3-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-650/056-000	100 (25)

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-833	100
blue	280-834 ❷	100
orange	280-835	100
red	280-830	100
black	280-831	100
yellow	280-832	100
light gray	280-994 ❸	100

4-conductor ground terminal block

green-yellow	280-837	100
green-yellow	280-837/999-950 ❸	100

4-conductor shield terminal block

white	280-838	100

Other terminal blocks with the same profile:

Diode	280-815/281-410	Page 408
LED	280-809/281-434	Page 408
Disconnect	280-836	Page 354
Disc./test	280-829	Page 354
Carrier	280-816	Page 380
Double-potential	280-826	Page 315

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

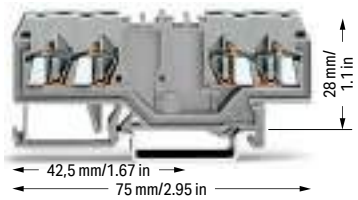
Spacer with same profile; for 4-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-835/056-000	100 (25)

Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	280-826	100
light gray	280-995 ❸	100

Notice: These double-potential terminal blocks cannot be commoned via adjacent jumpers!
Front-entry double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 5 mm. This achieves a width of just 2.5 mm versus standard through terminal blocks.
Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

For technical data and accessories,
see www.wago.com

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

* 12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm²/24 … 12 AWG*
550 V
23 A, for 2-conductor terminal blocks
22 A, for 3-conductor terminal blocks
20 A, for 4-conductor terminal blocks
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Step-down jumper, page 327
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A



gray	284-414	50 (25)

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks



gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated



10-way	280-440	1

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



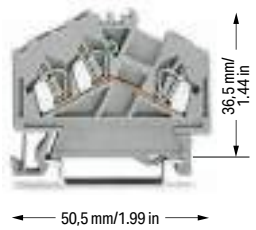
I_N 24 A	281-407	100 (25)

6

CAGE CLAMP®

Through/Ground Conductor/Shield Conductor and Ex Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



3-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	280-641	100
blue	280-651 ❷	100
orange	280-654	100
light gray	280-998 ❸	100

3-conductor ground terminal block		
green-yellow	280-637	100
green-yellow	280-637/999-950 ❸	100

3-conductor shield terminal block		
white	280-640	100

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



orange	280-313	100 (25)
gray	280-312	100 (25)
light gray	280-354	100 (25)

Separator; oversized; 2 mm thick



orange	280-318	100 (25)
gray	280-348	100 (25)
light gray	280-355	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Spacer with same profile; for 3- and 4-conductor terminal blocks (angled type); 5 mm thick



orange	280-654/056-000	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

* 12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm² / 24 … 12 AWG*
550 V; 23 A
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

❹ Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block



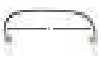
gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A	281-407	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

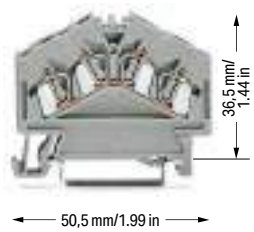
WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

CAGE CLAMP®

Through and Ex Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



* 12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm² / 24 … 12 AWG*
550 V; 23 A
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

4-conductor through terminal block
Notice: These terminal blocks cannot be commoned using adjacent jumpers.

Color	Item No.	Pack. Unit
gray	280-646	100
blue	280-656 ❷	100
orange	280-946	100
light gray	280-996 ❸	100

Accessories; 280 Series
Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



orange	280-313	100 (25)
gray	280-312	100 (25)
light gray	280-354	100 (25)

Separator; oversized; 2 mm thick



orange	280-318	100 (25)
gray	280-348	100 (25)
light gray	280-355	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



120 mm	209-191	50 (25)

Spacer with same profile; for 3- and 4-conductor terminal blocks (angled type); 5 mm thick



orange	280-654/056-000	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Accessories; 280 Series
Appropriate marking systems:
WMB/WMB Inline/WFB

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated



10-way	280-440	1

Test plug module; snaps together; 5 mm wide



gray	249-141	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5



Application example for shield conductor terminal blocks

Shielded control cables are becoming an increasingly common solution to external signal interference. Front-entry shield conductor terminal blocks are ideal for connecting braided cables. Like front-entry ground conductor terminal blocks, they are equipped with a grounding foot for direct electrical connection to the rail, however they differ significantly by their white insulated housing. Shield conductor terminal blocks for front-entry wiring can be directly mounted beside signal-conductor terminal blocks, providing excellent deflection of interfering signals.

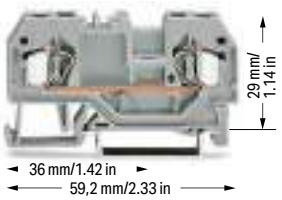
6

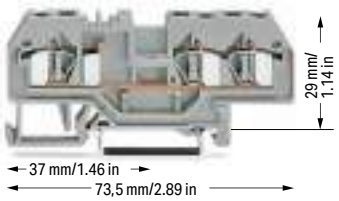
Through/Ground Conductor/Shield Conductor and Ex Terminal Block
4 mm²; 281 Series

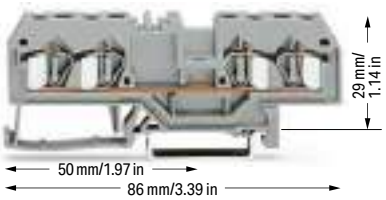
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 26 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	







2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-901	50
blue	281-904 ❷	50
orange	281-902	50
red	281-903	50
black	281-905	50
yellow	281-906	50
light gray	281-992 ❸	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-681	50
blue	281-684 ❷	50
orange	281-678	50
red	281-679	50
black	281-685	50
yellow	281-686	50
light gray	281-993 ❸	50

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-652	50
blue	281-654 ❷	50
orange	281-653	50
red	281-663	50
black	281-664	50
yellow	281-668	50
light gray	281-994 ❸	50

2-conductor ground terminal block

green-yellow	281-907	50
green-yellow	281-907/999-950 ❸	50

3-conductor ground terminal block

green-yellow	281-687	50
green-yellow	281-687/999-950 ❸	50

4-conductor ground terminal block

green-yellow	281-657	50
green-yellow	281-657/999-950 ❸	50

4-conductor shield terminal block

white	281-658	50

Other terminal blocks with the same profile:

Diode	281-915/281-410	Page 410
Disconnect	281-912	Page 356
Carrier	281-916	Page 378

Other terminal blocks with the same profile:

Diode	281-673/281-410	Page 410
Disconnect	281-683	Page 356
Carrier	281-610	Page 378

Other terminal blocks with the same profile:

Diode	281-665/281-410	Page 410
Disconnect	281-659	Page 356
Disc./test	281-666	Page 356
Carrier	281-656	Page 378

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-329	100 (25)
gray	281-328	100 (25)
light gray	281-349	100 (25)

Separator; oversized; 2 mm thick

orange	281-331	100 (25)
gray	281-330	100 (25)
light gray	281-350	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-326	100 (25)
gray	281-324	100 (25)
light gray	281-355	100 (25)

Separator; oversized; 2 mm thick

orange	281-346	100 (25)
gray	281-344	100 (25)
light gray	281-356	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-335	100 (25)
gray	281-334	100 (25)
light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

orange	281-339	100 (25)
gray	281-338	100 (25)
light gray	281-347	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Accessories; 281 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)

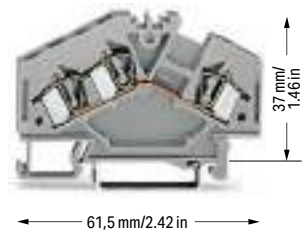
Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 4 mm² / 24 … 12 AWG
550 V; 30 A
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-631	100
blue	281-651 ❷	100
light gray	281-998 ❸	100

3-conductor ground terminal block

green-yellow	281-637	100
green-yellow	281-637/999-950 ❸	100

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	281-313	100 (25)
gray	281-312	100 (25)
light gray	281-357	100 (25)

Separator; oversized; 2 mm thick



orange	281-318	100 (25)
gray	281-348	100 (25)
light gray	281-358	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	281-415	100 (25)

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N = I_N terminal block



gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block



gray	281-409	100 (25)

Staggered jumper; insulated; 6 mm wide; I_N 32 A



1 to 2	781-452	100 (25)
1 to 3	781-453	100 (25)
1 to 4	781-454	100 (25)
1 to 5	781-455	50 (25)
1 to 6	781-456	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A



gray	284-413	50 (25)

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks



gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug module; snaps together; 6 mm wide



gray	281-418	100 (25)

Spacer module; snaps together; 6 mm wide



gray	281-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A	281-407	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

6

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V / 8 kV / 3 ❶	600 V, 30 A
I_N 41 A	600 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V / 8 kV / 3 ❶	600 V, 30 A
I_N 41 A	600 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	

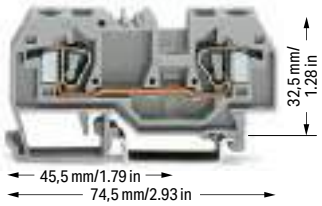
❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

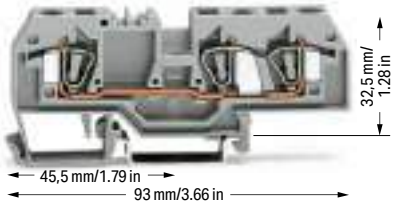
❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 6 mm² / 20 … 10 AWG
550 V; 39 A
35 A jumper
(see Section 15)

Please observe the application notes:
Step-down jumper, page 327
Test plug module, page 423
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



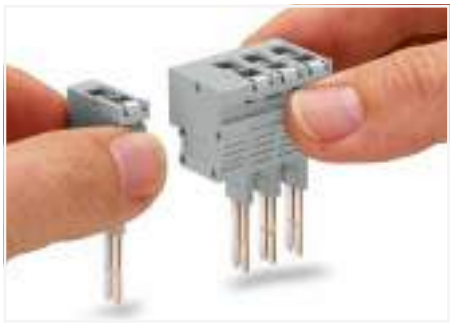


2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	282-901	50
blue	282-904 ❷	50
orange	282-902	50
red	282-903	50
black	282-905	50
yellow	282-906	50
light gray	282-992 ❸	50

3-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	282-681	25
blue	282-684 ❷	25
orange	282-682	25
light gray	282-993 ❸	50

2-conductor ground terminal block		
green-yellow	282-907	50
green-yellow	282-907/999-950 ❸	50

3-conductor ground terminal block		
green-yellow	282-687	25
green-yellow	282-687/999-950 ❸	25



Snapping test plug and spacer modules together to assemble a multi-pole test plug module (max. 10 poles) for 8 mm terminal block width.

Accessories; item-specific

End and intermediate plate; 2.5 mm thick			
	orange	282-328	100 (25)
	gray	282-325	100 (25)
	light gray	282-330	100 (25)

Separator; oversized; 2 mm thick			
	orange	282-329	100 (25)
	gray	282-326	100 (25)
	light gray	282-331	100 (25)

Step-down cover plate; 1 mm thick			
	gray	282-357	100 (25)
	orange	282-367	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick			
	orange	282-339	100 (25)
	gray	282-308	100 (25)
	light gray	282-341	100 (25)

Separator; oversized; 2 mm thick			
	orange	282-340	100 (25)
	gray	282-309	100 (25)
	light gray	282-342	100 (25)

Step-down cover plate; 1 mm thick			
	gray	282-358	100 (25)
	orange	282-368	100 (25)



The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 282 Series).

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Ex e/Ex i separator; orange; 3 mm thick			
	120 mm	209-191	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	282-415	100 (25)

Adjacent jumper; insulated; I_N 41 A			
	gray	282-402	100 (25)
	yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A			
	gray	282-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A			
	gray	284-414	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A			
	gray	284-413	50 (25)

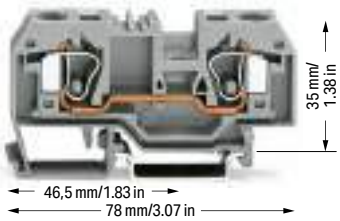
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks			
	gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide			
	gray	709-310	100 (25)

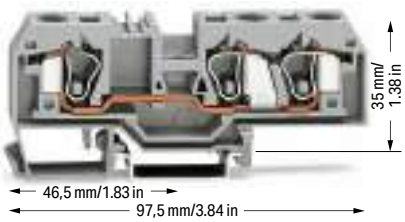
CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
10 mm²; 284 Series

Technical Data	
0.2 … 10 mm²	24 … 8 AWG
800 V / 8 kV / 3 ❶	600 V, 50 A
I_N 57 A	600 V, 54 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Technical Data	
0.2 … 10 mm²	24 … 8 AWG
800 V / 8 kV / 3 ❶	600 V, 50 A
I_N 57 A	600 V, 54 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 10 mm² / 20 … 8 AWG
550 V; 53 A
(see Section 15)

Please observe the application notes:
Step-down jumper, page 327
Test plug module, page 423
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	284-901	25
blue	284-904	25
orange	284-902	25
red	284-903	25
black	284-905	25
yellow	284-906	25
light gray	284-992 ❷	25

2-conductor ground terminal block

green-yellow	284-907	25
green-yellow	284-907/999-950 ❷	25

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	284-681	25
blue	284-684	25
orange	284-682	25
light gray	284-993 ❷	25

3-conductor ground terminal block

green-yellow	284-687	25
green-yellow	284-687/999-950 ❷	25

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	284-328	100 (25)
gray	284-325	100 (25)
light gray	284-330	100 (25)

End and intermediate plate; 2.5 mm thick



orange	284-339	100 (25)
gray	284-308	100 (25)
light gray	284-341	100 (25)

Separator; oversized; 2 mm thick



orange	284-329	100 (25)
gray	284-326	100 (25)
light gray	284-331	100 (25)

Separator; oversized; 2 mm thick



orange	284-340	100 (25)
gray	284-309	100 (25)
light gray	284-342	100 (25)

Step-down cover plate; 1 mm thick



gray	284-357	100 (25)
orange	284-367	100 (25)

Step-down cover plate; 1 mm thick



gray	284-358	100 (25)
orange	284-368	100 (25)

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	284-415	50 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow	284-400	100 (25)

Adjacent jumper; insulated; I_N 57 A



gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A



gray	284-409	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A



gray	284-414	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A



gray	284-413	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer plate; snaps together; 2 mm wide



gray	709-312	100 (25)



Snapping test plug and spacer modules (each with a spacer plate) together to assemble a multi-pole test plug module (max. 10 poles) for 10 mm terminal block width.



The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 284 Series).



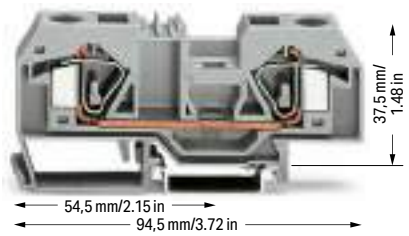
Finger guard seals an unused conductor entry.

6

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
16 mm²; 283 Series

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
800 V / 8 kV / 3 ❶	600 V, 65 A
I_N 76 A	600 V, 70 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 16 mm² / 20 … 6 AWG
550 V; 68 A
63 A jumper
(see Section 15)

Please observe the application notes:
Step-down jumper, page 327
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	283-901	20
blue	283-904	20
orange	283-902	20
red	283-903	20
black	283-905	20
yellow	283-906	20
light gray	283-992 ❷	20

2-conductor ground terminal block

green-yellow	283-907	20
green-yellow	283-907/999-950 ❷	20

Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



orange	283-328	50 (25)
gray	283-325	50 (25)
light gray	283-330	50 (25)

Separator; oversized; 2 mm thick



orange	283-329	50 (25)
gray	283-326	50 (25)
light gray	283-331	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	283-415	50 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow	283-400	100 (25)

Adjacent jumper; insulated; I_N 70 A



gray	283-402	50 (25)
yellow-green	283-422	50 (25)

Alternate jumper; insulated; I_N 76 A



gray	283-409	50 (25)

Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A



gray	283-414	50 (25)

Step-down cover plate; 1 mm thick



gray	283-357	100 (25)
orange	283-367	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

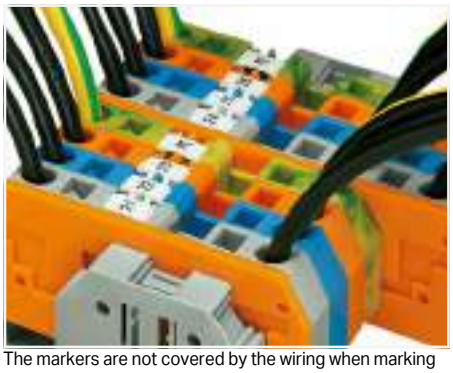


gray	283-404	25

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks



gray	283-407	25



The markers are not covered by the wiring when marking terminal blocks in center position.



Always push voltage tap (283-407) down into the terminal block until fully inserted!

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
16 mm²; 283 Series

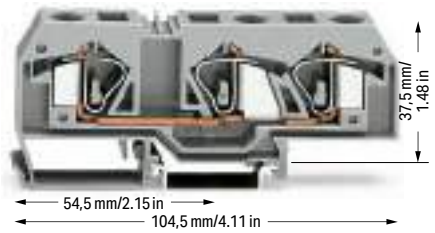
Technical Data	
0.2 … 16 mm²	24 … 6 AWG
800 V / 8 kV / 3 ❶	600 V, 65 A
I_N 76 A	600 V, 70 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 16 mm² / 20 … 6 AWG
550 V; 68 A
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



3-conductor through terminal block Notice: This terminal block cannot be commoned with adjacent jumpers.		
Color	Item No.	Pack. Unit
gray	283-671	20
blue	283-674	20
orange	283-672	20
light gray	283-998 ❷	20

3-conductor ground terminal block Notice: This terminal block cannot be commoned with adjacent jumpers.		
green-yellow	283-677	20
green-yellow	283-677/999-950 ❷	20


Finger guard seals an unused conductor entry.

Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick			
	orange	283-352	50 (25)
	gray	283-350	50 (25)
	light gray	283-354	50 (25)

Separator; oversized; 2 mm thick			
	orange	283-353	50 (25)
	gray	283-351	50 (25)
	light gray	283-355	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	283-415	50 (25)

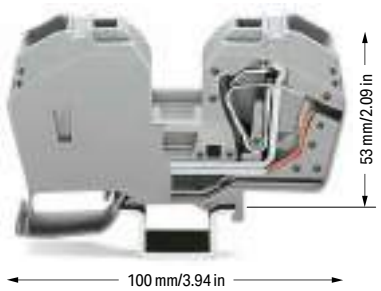
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	283-400	100 (25)

6

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
35 mm²; 285 Series

Technical Data	
6 … 35 mm²	10 … 2 AWG
1000 V / 8 kV / 3 ❶	600 V, 115 A
I_N 125 A	600 V, 120 A
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
6 … 35 mm² / 8 … 2 AWG
880 V; 85 A
6 … 25 mm² / 8 … 4 AWG
for ground conductor terminal blocks
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com


Terminating a 35 mm² (2 AWG) conductor –

6

2-conductor through terminal block; with integrated end plate; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-635	15
blue	285-634	15
red	285-633	15
black	285-639	15
yellow	285-636	15
light gray	285-992 ❷	15

2-conductor ground terminal block; with integrated end plate; only for DIN 35 x 15 rail

green-yellow	285-637	15
green-yellow	285-637/999-950 ❷	15


Protective warning markers inserted into the operating slots


Commoning a 285 Series terminal block (35 mm²/ 2 AWG) with a 281 Series terminal block (4 mm²/ 12 AWG) using a step-down jumper (283-414).

Accessories; 285 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N 85 A


gray | 285-435 | 50 (25)

Step-down jumper; insulated; I_N 90 A


gray | 285-430 | 50 (25)

Protective warning marker; with a black high-voltage symbol


yellow | 285-416 | 100 (25)

Finger guard; touch-proof cover protects unused conductor entries


yellow | 285-401 | 100 (25)

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks


gray | 283-407 | 25


Finger guard seals an unused conductor entry.


The following 285 Series Through Terminal Blocks can be commoned with 283 Series Through Terminal Blocks:
285-635 or 285-634 with 283-601 or 283-604 (terminal blocks with side marking,
visit www.wago.com)
Adjacent jumper required: 285-435

Please note that the nominal current of the adjacent jumper must not exceed 63 A.

CAGE CLAMP®

Distribution Terminal Block; 3 x 10 mm² CAGE CLAMP® Connection and 1 x 35 mm² Screw Clamp Connection

284 Series

Technical Data	
0.2 … 10 mm² ❶	24 … 8 AWG
6 … 35 mm² ❷	10 … 2 AWG
800 V / 8 kV / 3 ❸	
I_N 125 A	
Terminal block width: 17.5 mm / 0.689 inch	
12 … 14 mm / 0.47 … 0.55 inch	



Distribution terminal block; with 3 x CAGE CLAMP® connection (10 mm²/8 AWG); 1 x screw clamp connection (35 mm²/2 AWG) and 3.5 Nm screw torque		
Color	Item No.	Pack. Unit
gray	284-621	15
blue	284-624	15

Accessories; distribution terminal block			
Appropriate marking system: WMB			
Adjacent jumper; insulated; I_N 125 A; for 1 jumper; I_N 100 A; for 2 jumpers			
	gray	284-412 ❹	100 (25)

❶ CAGE CLAMP® connection

❷ Screw-type connection

❸ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❹ Individual arrangement: 125 A
Two jumpers combined in one clamping unit: 100 A

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Terminating a 35 mm² (2 AWG) conductor – screw clamp connection, side-entry wiring



Terminating a 10 mm² (8 AWG) conductor – CAGE CLAMP® connection, front-entry wiring.



Commoning with comb-style jumper bar.



Side-entry distribution terminal block with screw clamp connection (35 mm²/2 AWG) and front-entry CAGE CLAMP® connection (3 x 10 mm²/8 AWG) snaps onto
This terminal block snaps onto DIN-35 rail – it is enclosed on both sides and requires no end or intermediate plate.

When connecting 3 x 10 mm² (8 AWG) conductors on the distribution side, make sure that the nominal current of 125 A is not exceeded.

6

Step-Down Jumpers; for Front-Entry Through Terminal Blocks up to 16 mm²
Installation



Step-down jumper from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG)
I_N 15 A, Item No. 284-414



Step-down jumper from 10/6 mm² (8/10 AWG) to 6/4 mm² (10/12 AWG)
I_N 30 A, Item No. 284-413



Step-down jumper from 16 mm² (6 AWG) to 4 mm² (12 AWG)
I_N 32 A, Item No. 283-414



Snapping a cover plate onto open side of terminal block.



A cover plate must also be snapped onto the other side of the larger terminal block.



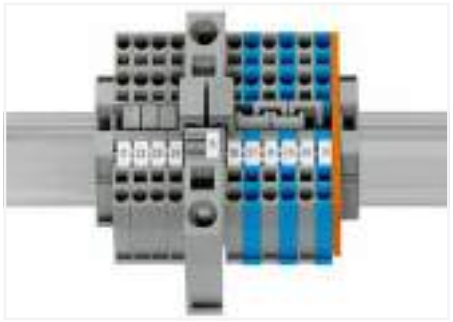
Commoning terminal blocks of different sizes – step down. Push down the step-down jumper until fully inserted.

Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross section may be commoned using adjacent jumpers.
In this case, pay attention that:
- The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.
- The standard or special thin cover plate is installed on the open side of the larger block.



Note: Jumpers are marked with suitable terminal block sizes for correct installation.



Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Commoning a 285 Series terminal block (35 mm²/ 2 AWG) with a 281 Series terminal block (4 mm²/ 12 AWG) using a step-down jumper (283-414).



The following 285 Series Through Terminal Blocks can be commoned with 283 Series Through Terminal Blocks: 285-635 or 285-634 with 283-601 or 283-604 (terminal blocks with side marking, visit www.wago.com)
Adjacent jumper required: 285-435

Please note that the nominal current of the adjacent jumper must not exceed 63 A.

Assembly Examples

Step-Down Jumpers; for Front-Entry Through Terminal Blocks

Terminal blocks with side marking, visit www.wago.com



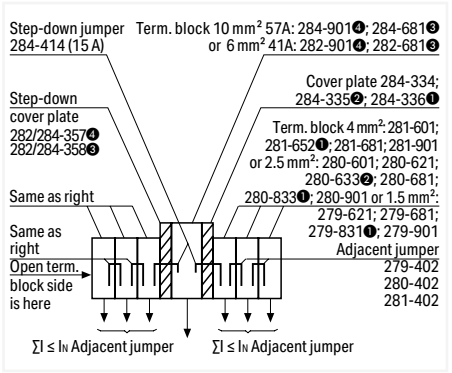
Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.



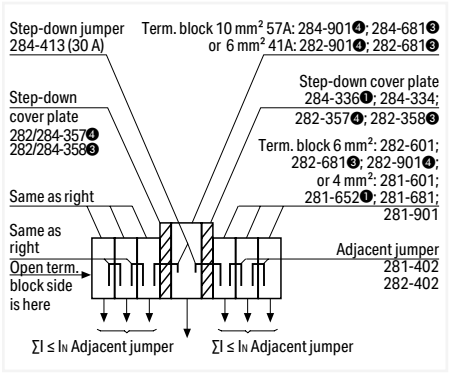
Commoning from 10 mm²/8 AWG (284 Series) to 6 mm²/10 AWG (282 Series) rail-mount terminal blocks via step-down jumpers.



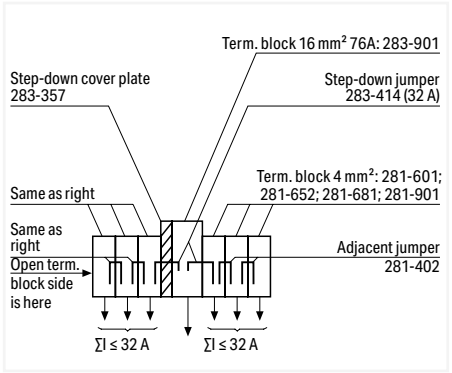
Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 6 mm² (10 AWG) rail-mount terminal blocks via step-down jumper (284-413).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).



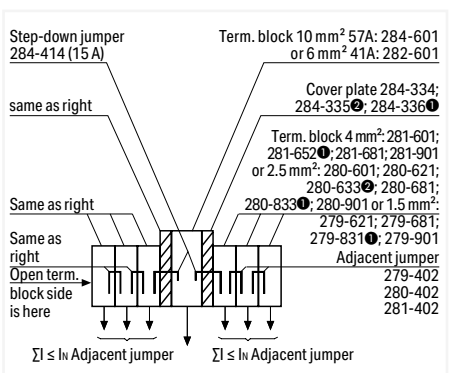
Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.



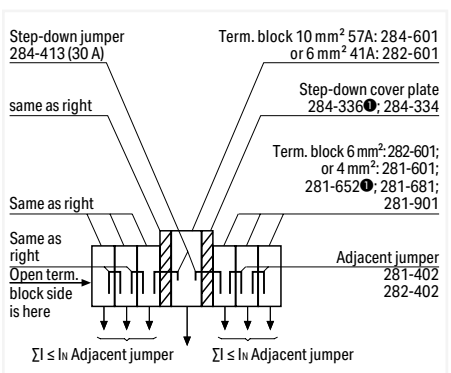
Commoning from 10 mm²/8 AWG (284 Series) to 6 mm²/10 AWG (282 Series) rail-mount terminal blocks via step-down jumpers.



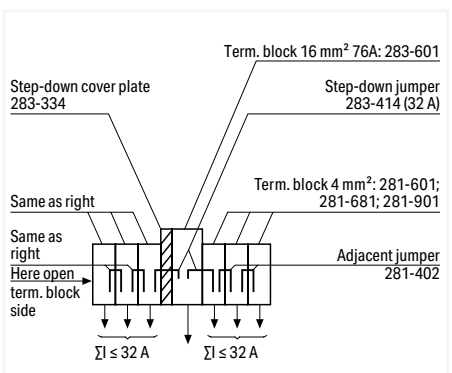
Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 6 mm² (10 AWG) rail-mount terminal blocks via step-down jumper (284-413).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

Double-Deck Terminal Block
1.5 mm²; 279 Series

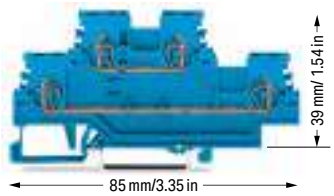
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
L/L	279-501	50
N/L	279-512	50
L/N	279-513	50

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; blue

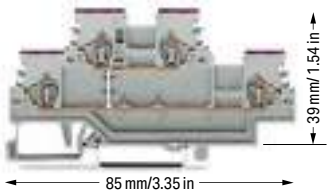
	Item No.	Pack. Unit
N/N	279-504 ❷	50

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	
I_N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



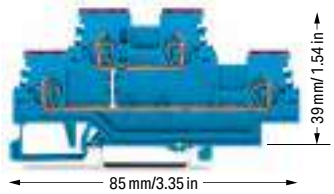
Double-deck terminal block; ground conductor/through terminal block; gray

	Item No.	Pack. Unit
PE/N	279-517	50
PE/L	279-527	50



Double-deck terminal block; 4-conductor through terminal block; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
L	279-508	50



Double-deck terminal block; 4-conductor through terminal block; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
N	279-509 ❷	50



Double-deck terminal block; 4-conductor ground terminal block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	279-507	50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2 mm thick



orange	**279-519**	200 (25)
gray	**279-518**	

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**279-470**	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip



dark gray	**279-471**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	**279-415**	100 (25)

Adjacent jumper; insulated; I_N 15 A



gray	**279-402**	200 (25)
yellow-green	**279-422**	200 (25)

Alternate jumper; insulated; I_N 15 A



gray	**279-409**	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**279-482**	200 (25)
3-way	**279-483**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	**279-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**279-492**	200 (25)

Operating tool; insulated

2-way	**279-432**	1
3-way	**279-433**	1

Operating tool; insulated



10-way	**279-440**	1

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/Marking Strips

Double-deck marker carrier



gray	**279-529**	50 (25)

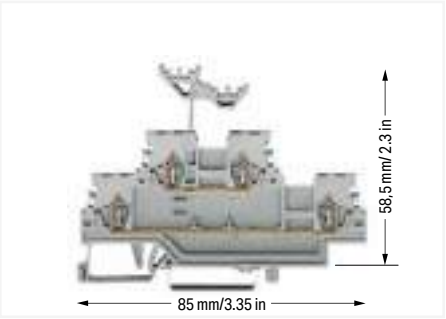
WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm



white	**2009-114**	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 4 … 4.2 mm

plain	**793-4501**	5



Double-deck marker carrier
(height including marker carrier)

6

Double- and Triple-Deck Terminal Blocks
280 and 281 Series
Description and Installation



Snapping a terminal block onto the DIN-rail.



Removing a terminal block from the assembly.



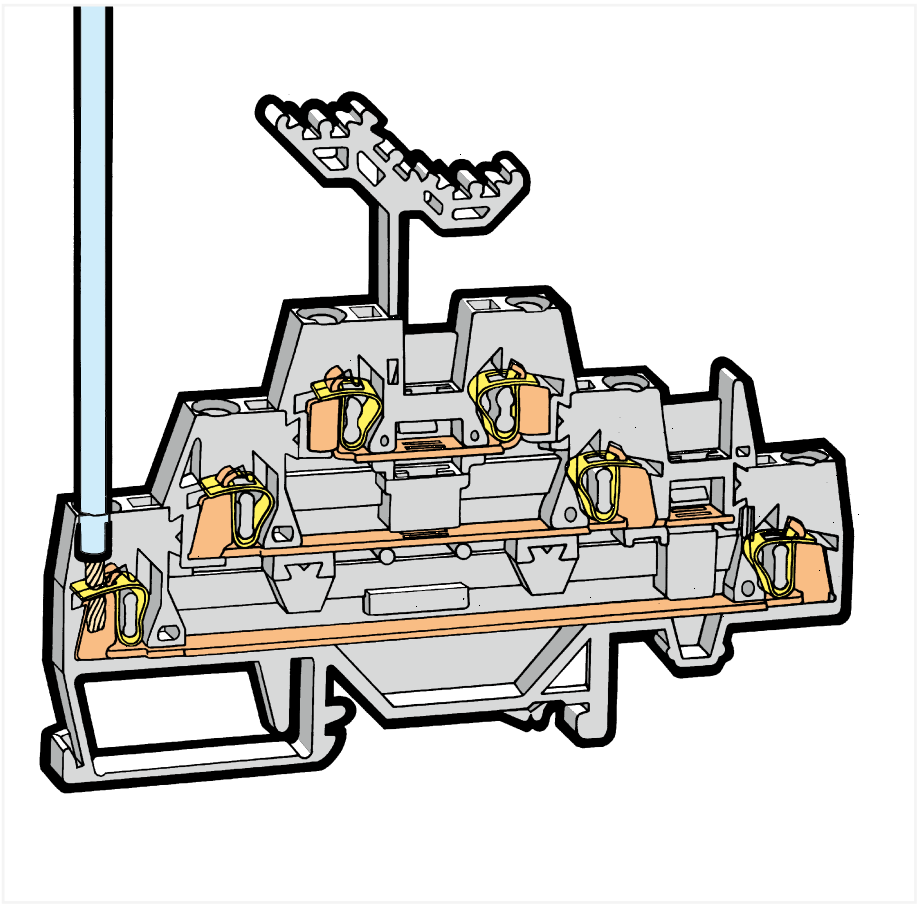
CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Commoning using an adjacent jumper (280-402). push jumpers down until fully inserted.

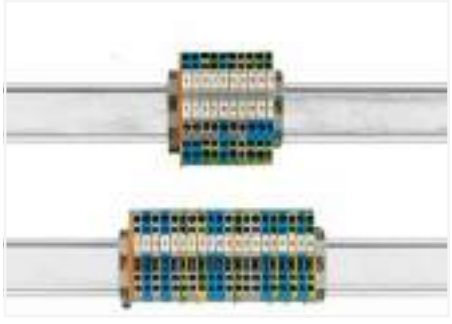


Combining vertical and adjacent jumpers.

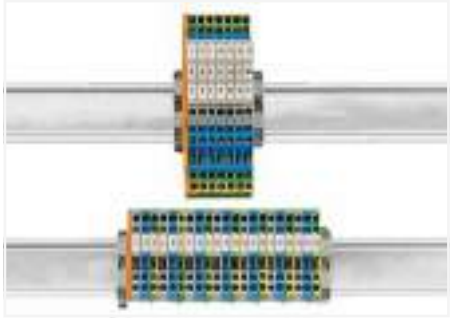




Labeling via WMB Multi Marking System.



Use 50 % less rail space with double-deck terminal blocks.



Use 67 % less rail space with triple-deck terminal blocks.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

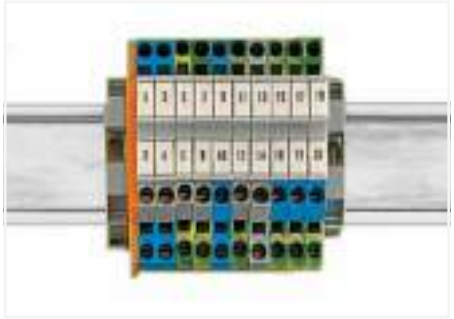
For aluminum conductors, see notes in Section 15.



Example of a mixed assembly with double-deck terminal blocks.
The 280 Series Double-Deck Terminal Blocks are available with decks of same or different color according to their function. This is an additional visual aid during wiring, service or maintenance.



Double-deck terminal blocks accommodate two circuits of different potentials on two decks; different circuits can be differentiated by color coding either deck (280 Series). The lower deck is wider than the upper for ease of wiring.



With a terminal block width of just 5 mm, an effective width of just 2.5 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² … 2.5 mm² (28 … 14 AWG).



Double-deck terminal blocks used as control conductor terminal blocks (e.g., for magnetic valves) with the upper deck commoned.



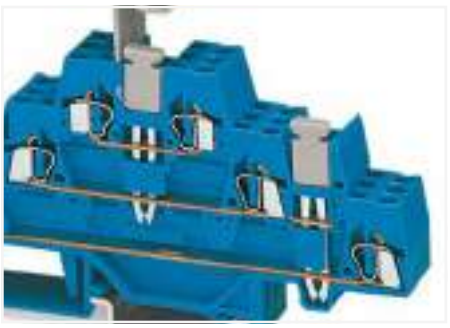
Double-deck terminal blocks used for connecting a three-phase motor.



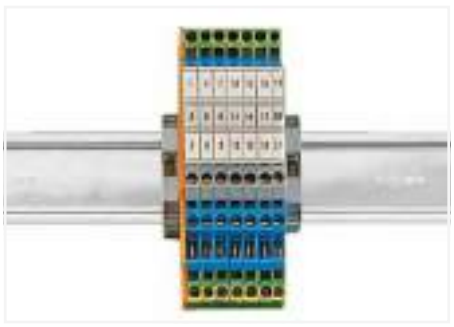
Commoning with a vertical jumper (281-421).
Push vertical jumper down until fully inserted.



Pulling the disconnect tab.



A vertical jumper allows commoning of the upper and lower levels, providing a 6-conductor feedthrough terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same level using a push-in adjacent jumper.



Double-deck (triple-deck) terminal blocks accommodate two (three) circuits of different potentials on two (three) decks; different circuits can be differentiated by color coding either deck (280 Series).
The lower deck is wider than the upper for ease of wiring.



fine-stranded, tip-bonded



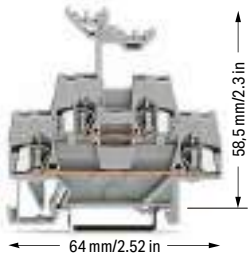
fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

Double-Deck Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
gray	280-519	50
blue	280-529 ❷	50

Other terminal blocks with the same profile:		
Diode	280-940/281-410	Page 370
LED	280-943/281-434	Page 370

Accessories; item-specific

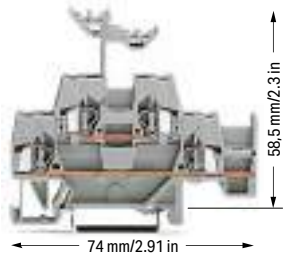
End and intermediate plate; 2.5 mm thick

	orange	280-341	100 (25)
	gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-366	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
gray	280-520	50
blue	280-530 ❷	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-343	100 (25)
	gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-369	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3 ❶	
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; ground conductor/through terminal block

Color	Item No.	Pack. Unit
green-yellow/gray	280-527	50
green-yellow/blue	280-537	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-341	100 (25)
	gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-366	100 (25)



Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
blue/gray	280-523	50
gray/blue	280-533	50

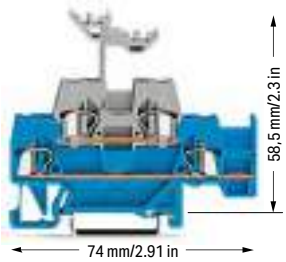
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-341	100 (25)
	gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-366	100 (25)



Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-524	50
gray/blue	280-534	50

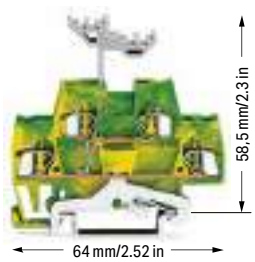
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-343	100 (25)
	gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-369	100 (25)



Double-deck terminal block; 4-conductor ground terminal block; internally commoned

Color	Item No.	Pack. Unit
green-yellow	280-517	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-341	100 (25)
	gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-366	100 (25)

CAGE CLAMP®

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 10 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/disconnect terminal block

Color	Item No.	Pack. Unit
blue/gray	280-525	50
gray/gray	280-521	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-366	100 (25)



Double-deck terminal block; through/disconnect terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-526	50
gray/gray	280-522	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



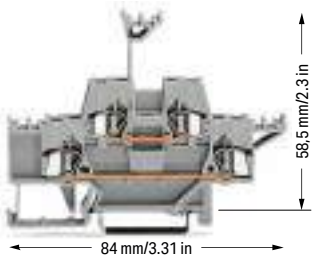
orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-369	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; with additional marking options on both terminal block sides

Color	Item No.	Pack. Unit
gray	280-513	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

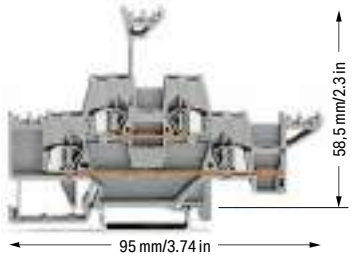


orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-366	100 (25)



Double-deck terminal block; through/through terminal block; with additional marking options on both terminal block sides; with slot for adjacent jumper

Color	Item No.	Pack. Unit
gray	280-543	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-369	100 (25)

*12 AWG: THHN, THWN

❶ 500 V / 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Vertical jumper; insulated; I_N 24 A



gray	281-421	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

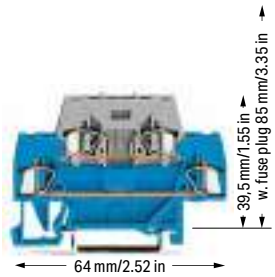


10-way	280-440	1

6

Double- and Triple-Deck Carrier Terminal Block for Fuse Plugs
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶❷	300 V, 15 A
I_N 10 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
blue/gray	280-531	50
gray/gray	280-514	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



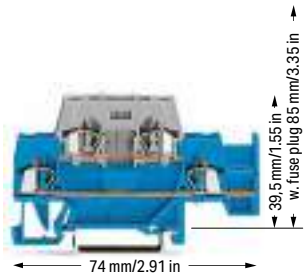
orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-366	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶❷	300 V, 15 A
I_N 10 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-532	50
gray/gray	280-891	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-369	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



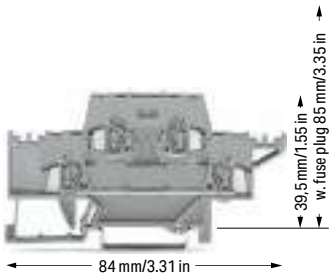
gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶❷	
I_N 10 A (10 A)	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
gray/gray	280-528	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick



orange	280-366	100 (25)

Accessories

Appropriate marking systems: 4 mm wide WSB for plug and WMB terminal block

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Fuse plug with pull-tab; 6 mm wide



	281-511	50

Fuse plug with pull-tab; 6 mm wide



	281-512	50

Fuse plug with pull-tab; 24 VAC/DC; with LED; 6 mm wide



	281-512/281-501	50

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

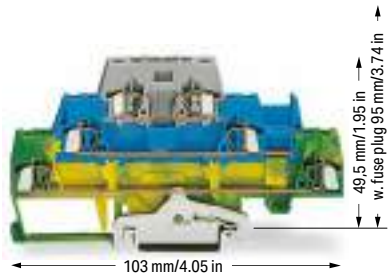
plain	793-4501	5

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

F1, …, F10 (10x)	794-4615	5
F11, …, F20 (10x)	794-4616	5
F21, …, F30 (10x)	794-4617	5
F31, …, F40 (10x)	794-4618	5
F41, …, F50 (10x)	794-4619	5

CAGE CLAMP®

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶❷	300 V, 15 A
I_N 20 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; ground conductor/through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
green-yellow/blue/gray	280-510	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



	orange	280-304	50 (25)
	gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick



	orange	280-336	50 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



	gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



	gray	280-409	100 (25)

Vertical jumper; insulated; I_N 24 A

	gray	281-421	200 (25)

WSB marking card; white, 10 strips with 10 markers/card; 4 mm wide WSB markers

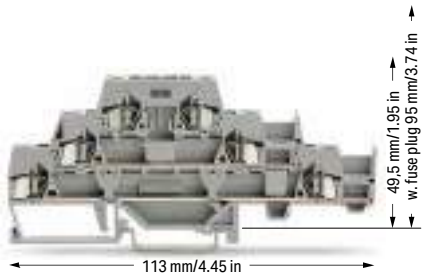
	plain	209-701	5

WSB marking card; plain; 10 strips with 10 markers/card; 4 mm wide WSB markers



	yellow	209-701/000-002	5
	red	209-701/000-005	5
	blue	209-701/000-006	5
	gray	209-701/000-007	5
	orange	209-701/000-012	5
	light green	209-701/000-017	5
	green	209-701/000-023	5
	violet	209-701/000-024	5

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶❷	300 V, 15 A
I_N 20 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; through/through/carrier terminal block for fuse plugs; with slot for adjacent jumper on lower level

Color	Item No.	Pack. Unit
gray/gray/gray	280-889	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



	orange	280-306	50 (25)
	gray	280-305	50 (25)

Intermediate plate; 1.1 mm thick



	orange	280-339	50 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



	gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



	gray	280-409	100 (25)

Vertical jumper; insulated; I_N 24 A

	gray	281-421	200 (25)

WSB marking card; for fuse plugs (281-5..); white; 4 mm wide WSB markers



	F1, ..., F10 (10x)	209-787	5
	F11, ..., F20 (10x)	209-700/209-124	5
	F21, ..., F30 (10x)	209-700/209-125	5
	F31, ..., F40 (10x)	209-700/209-126	5
	F41, ..., F50 (10x)	209-700/209-127	5

*12 AWG: THHN, THWN

❶ 500 V / 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse or LED nominal voltage (see page 387).

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



When double-deck terminal blocks are used with a fuse plug (6 mm wide) in the receptacle (top) level, the extra width can be compensated for the 280 Series (5 mm wide) via an intermediate plate (1.1 mm thick). If required, this special intermediate plate still allows commoning on the lower level via push-in adjacent jumpers (280-402).



When triple-deck terminal blocks are used with a fuse plug (6 mm wide) in the receptacle (top) level, the extra width can be compensated for the 280 Series (5 mm wide) via an intermediate plate (1.1 mm thick).



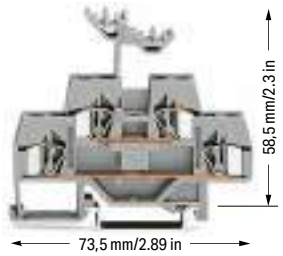
Grounding to DIN-rail:
Connecting N-level to ground level via vertical jumper.

6

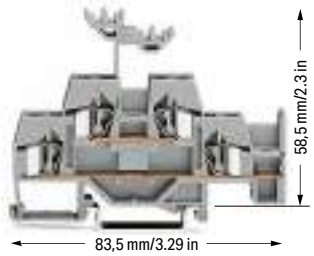
CAGE CLAMP®

Double-Deck Terminal Block
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	600 V, 20 A
I_N 26 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	600 V, 20 A
I_N 26 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Double-deck terminal block; through/through terminal block		
Color	Item No.	Pack. Unit
gray	281-619	50
blue	281-629 ❷	50

Double-deck terminal block; through/through terminal block; with slot for adjacent jumper		
Color	Item No.	Pack. Unit
gray	281-620	50
blue	281-630 ❷	50

Other terminal blocks with the same profile:		
Diode	281-633/281-410	Page 414
LED	281-634/281-434	Page 414



The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring or commoning. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-341	100 (25)
	gray	281-340	100 (25)

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-343	100 (25)
	gray	281-342	100 (25)

Accessories; 281 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip			
	dark gray	281-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	281-402	200 (25)
	yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block			
	gray	281-409	100 (25)

Vertical jumper; insulated; I_N 24 A			
	gray	281-421	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block			
	2-way	281-482	100 (25)
	3-way	281-483	100 (25)
	5-way	281-485	100 (25)
	10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block			
	2-way	281-492	100 (25)

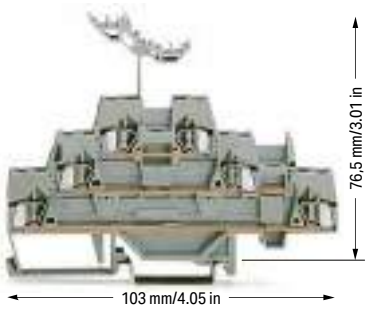
Operating tool; insulated			
	2-way	280-432	1
	3-way	280-433	1
	5-way	281-440	1



A vertical jumper allows commoning of upper and lower level, giving a 4-conductor commoned through terminal block in one housing. Two adjacent terminals may be commoned together on the same level using a push-in adjacent jumper.

Triple-Deck Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; through/through/through terminal block

Color	Item No.	Pack. Unit
gray	280-549	40
blue	280-551	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



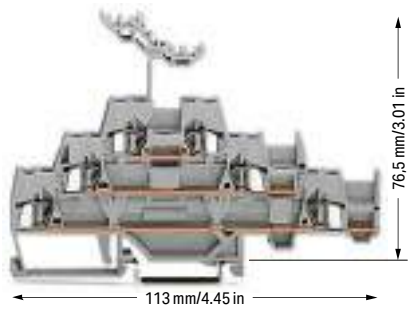
orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick



orange	280-336	50 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; through/through/through terminal block; with slot for adjacent jumper on lower level

Color	Item No.	Pack. Unit
gray	280-550	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	280-306	50 (25)
gray	280-305	50 (25)

Intermediate plate; 1.1 mm thick



orange	280-339	50 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V / 6 kV / 3	
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; ground conductor/through/through terminal block

Color	Item No.	Pack. Unit
green-yellow/blue/gray	280-547	40
green-yellow/gray/gray	280-557	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

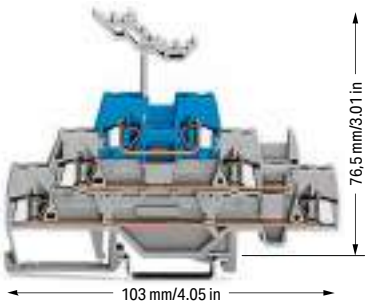


orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick



orange	280-336	50 (25)



Triple-deck terminal block; through/through/through terminal block

Color	Item No.	Pack. Unit
gray/gray/blue	280-552	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

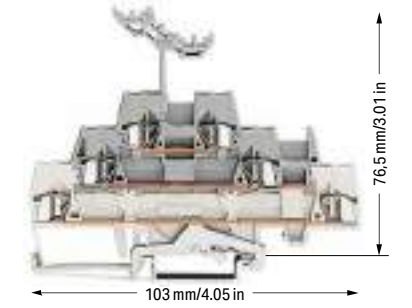


orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick



orange	280-336	50 (25)



Triple-deck terminal block; shield conductor/through/through terminal block

Color	Item No.	Pack. Unit
white/gray/gray	280-548	40
white/blue/gray	280-558	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

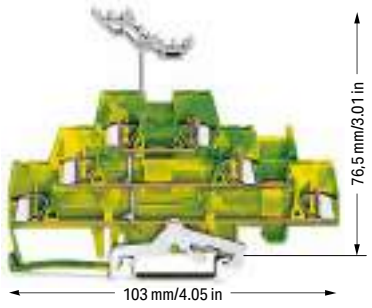


orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick



orange	280-336	50 (25)



Triple-deck terminal block; 6-conductor ground terminal block; internally commoned

Color	Item No.	Pack. Unit
green-yellow	280-597	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick



orange	280-336	50 (25)

*12 AWG: THHN, THWN

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	**280-402**	200 (25)
yellow-green	**280-422**	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	**280-409**	100 (25)

Vertical jumper; insulated; I_N 24 A



gray	**281-421**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**280-482**	200 (25)
3-way	**280-483**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	**280-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**280-492**	200 (25)

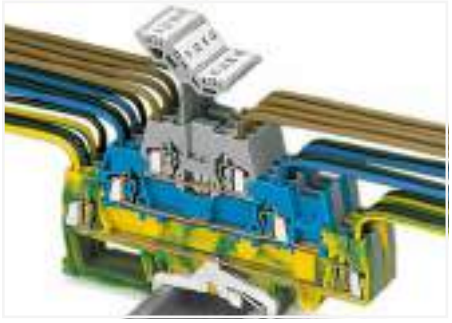
Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1

Operating tool; insulated



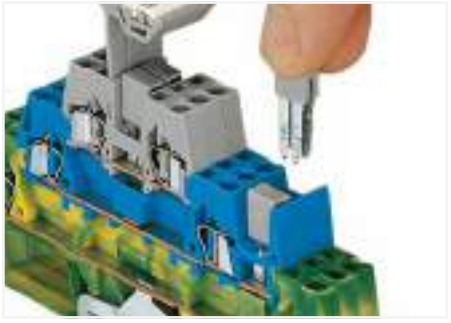
10-way	**280-440**	1



Three-conductor power circuit with additional branch circuit tapping



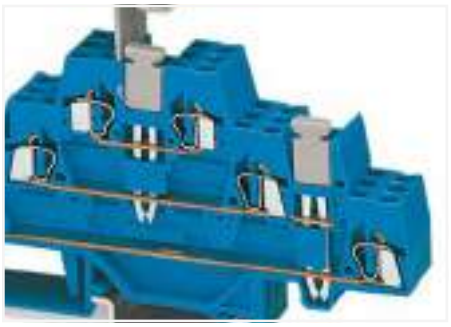
Shielded twisted pair cables



Triple-deck terminal blocks accommodate three circuits of different potentials on three decks; different circuits can be differentiated by color coding either deck (280 Series).



Commoning with vertical and adjacent jumpers.



A vertical jumper allows commoning of the upper and lower levels, providing a 6-conductor feedthrough terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same level using a push-in adjacent jumper.

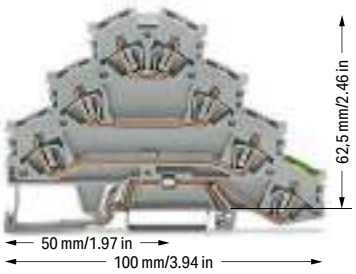


Both ground and shield conductor terminal blocks have a contact foot in the bottom level, automatically establishing direct contact to the DIN-rail or busbar.
The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.
With a terminal block width of just 5 mm, an effective width of just 1.67 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² … 2.5 mm² (28 … 14 AWG).

6

Quadruple-Deck Rail-Mount Terminal Block for Electric Motor Wiring
4 mm²; 281 Series

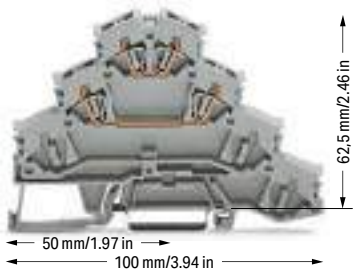
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3	600 V, 20 A
I_N 20 A (2.5 mm²)	300 V, 25 A
I_N 25 A (4 mm²)	
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Quadruple-deck rail-mount terminal block; Rail-mount terminal block for electric motor wiring; gray

	Item No.	Pack. Unit
L1 - L2 - L3 - PE	281-530	50

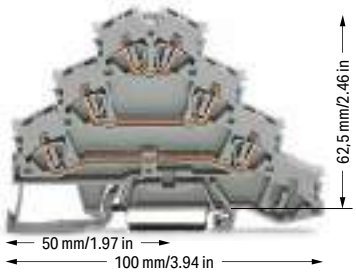
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3	600 V, 20 A
I_N 20 A (2.5 mm²)	300 V, 25 A
I_N 25 A (4 mm²)	
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Quadruple-deck rail-mount terminal block; Rail-mount terminal block for electric motor wiring; gray

	Item No.	Pack. Unit
L1 - L2	281-531	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3	600 V, 20 A
I_N 20 A (2.5 mm²)	300 V, 25 A
I_N 25 A (4 mm²)	
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Quadruple-deck rail-mount terminal block; Rail-mount terminal block for electric motor wiring; gray

	Item No.	Pack. Unit
L1 - L2 - L3	281-532	50

6

Accessories; 281 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick



orange	281-366	100 (25)
gray	281-365	100 (25)



white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip



dark gray	281-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Marking strip; plain; 7.5 mm wide; 50 m reel

transluscent	709-177	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

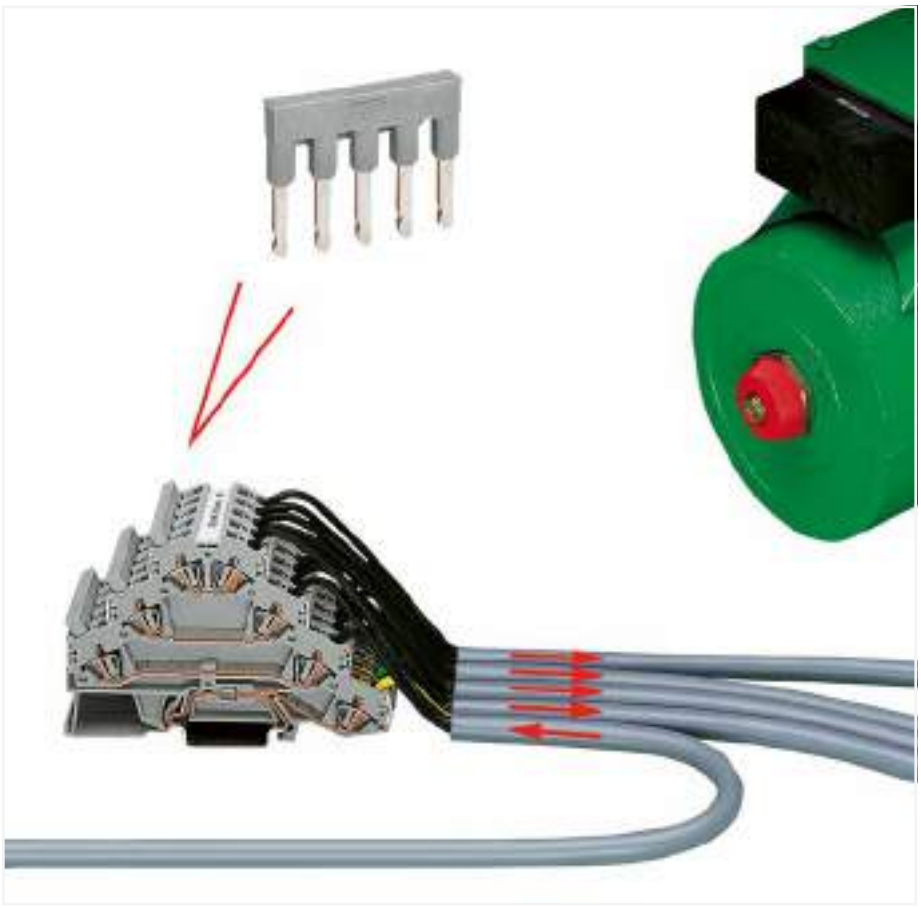
plain	793-5501	5

CAGE CLAMP®

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com





In addition to rail-mount terminal blocks for electric motor wiring, special versions are also available:
- Version **without** ground contact and only two potentials:
These terminal blocks were custom designed to support additional functions, such as engine brakes or temperature sensors. Sharing a common profile, this terminal block version can be put next to the appropriate electric motor wiring terminal block without using intermediate plates. That makes the rail assembly easier to understand and wire. This also prevents wiring errors as no conductor entry is unused.
- Version **without** ground contact and with three potentials:
Clearly designated clamping units are the primary advantage to this terminal block design. When using devices with protective insulation, for example, there are no open ground clamping units that could create confusion.



Commoning using comb-style jumper bars.
Push comb-style jumper bars down until fully inserted.



Testing with voltage tester.



Marking clamping points via WMB Multi Marking System.
Marking groups via marking strips (709-177).

CAGE CLAMP®

Rail-Mount Terminal Blocks TOPJOB® Classic
780 … 785 Series
Description and Installation



By snapping a ground conductor terminal block onto the DIN-rail, a direct electrical connection is automatically made to the rail.



Removing a terminal block from the assembly.



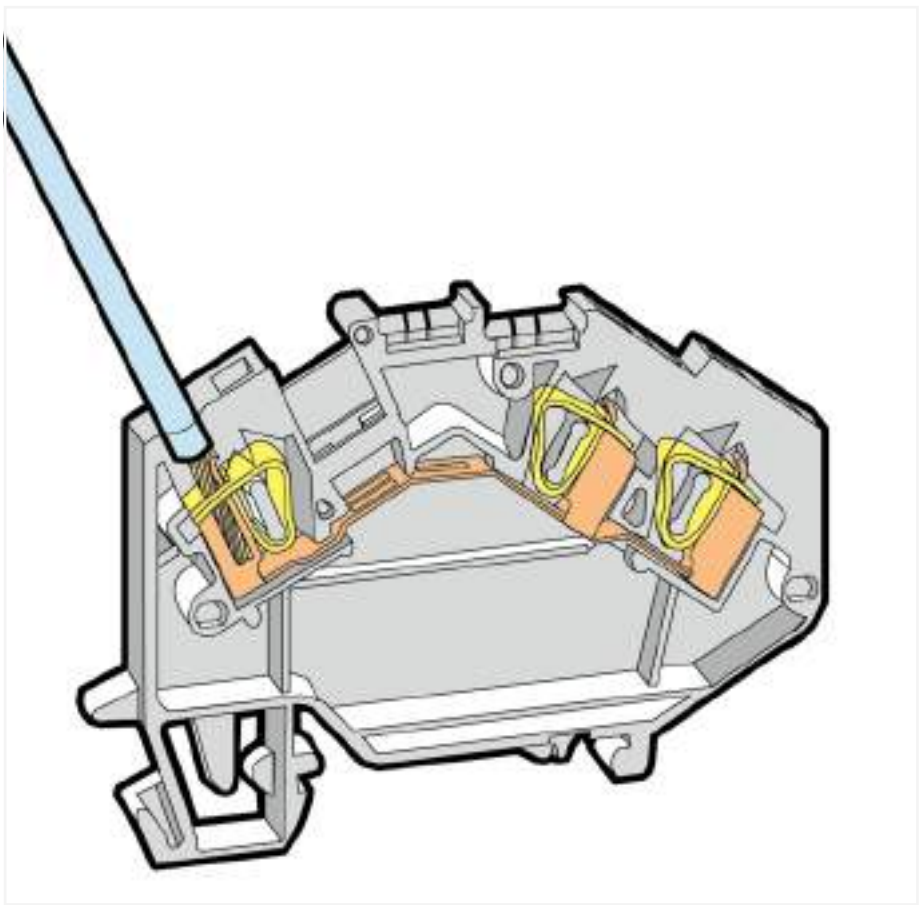
Operating an N-disconnect slide link.

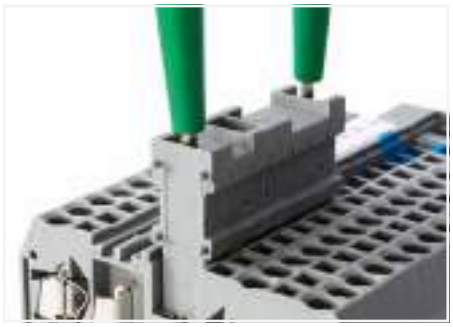


Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.





Test plug module assembly –
combining test plug and spacer modules.



Insulation stop:
Prevents the conductor insulation from being pushed into the clamping unit.
(Available for terminal blocks up to 4 mm²/12 AWG)

CAGE CLAMP® terminates the following copper conductors:

solid "s"	stranded "st"	fine-stranded "f-st", also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

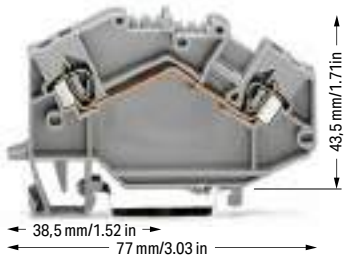
For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

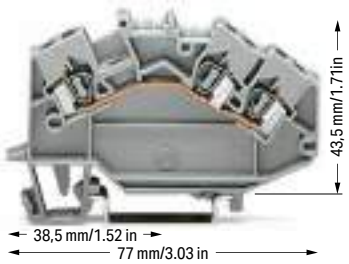
CAGE CLAMP®

Through/Ground Conductor/Shield Conductor and Ex Terminal Block TOPJOB® Classic
2.5 mm²; 780 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
1000 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
1000 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





*12 AWG: THHN, THWN

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm² / 24 … 12 AWG*
690 V; 23 A
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	780-601	50
blue	780-604 ❷	50
orange	780-602	50
light gray	780-992 ❸	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	780-631	50
blue	780-651 ❷	50
orange	780-654	50
light gray	780-993 ❸	50

2-conductor ground terminal block

green-yellow	780-607	50
green-yellow	780-607/999-950 ❸	50

3-conductor ground terminal block

green-yellow	780-637	50
green-yellow	780-637/999-950 ❸	50

3-conductor shield terminal block

white	780-640	50

Other terminal blocks with the same profile:

N-disconnect	780-613	Page 347

Accessories; 780 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick



orange | 780-317 | 100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm | 209-192 | 50 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white | 280-470 | 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray | 280-471 | 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray | 280-472 | 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow | 280-415 | 100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray | 280-409 | 100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)
10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way | 280-492 | 200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

Accessories; 780 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide



gray | 280-418 | 100 (25)

Spacer module; snaps together; 5 mm wide



gray | 280-419 | 100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray | 209-170 | 50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray | 280-404 | 100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A | 281-407 | 100 (25)

Operating tool; specialty blade; for all TOPJOB® terminal blocks



777-310 | 1

6

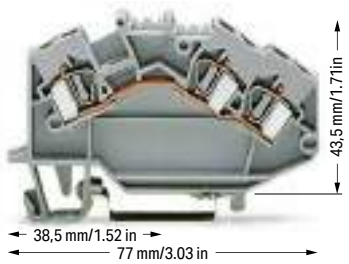
CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic
4 mm²; 781 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
1000 V / 8 kV / 3 ❶	600 V, 20 A
I_N 32 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Technical Data	
0.08 … 4 mm²	28 … 12 AWG
1000 V / 8 kV / 3 ❶	600 V, 20 A
I_N 32 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 4 mm² / 24 … 12 AWG
690 V
30 A, for 2-conductor terminal blocks
27 A, for 3-conductor terminal blocks
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	781-601	50
blue	781-604 ❷	50
light gray	781-992 ❸	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	781-631	50
blue	781-651 ❷	50
light gray	781-993 ❸	50

2-conductor ground terminal block

green-yellow	781-607	50
green-yellow	781-607/999-950 ❸	50

3-conductor ground terminal block

green-yellow	781-637	50
green-yellow	781-637/999-950 ❸	50

Other terminal blocks with the same profile:

N-disconnect	781-613	Page 347
Potential	781-623	Page 347

Other terminal blocks with the same profile:

N-disconnect	781-643	Page 347
Potential	781-653	Page 347

Accessories; 781 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick



orange	780-317	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip



dark gray	281-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	281-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	281-409	100 (25)

Staggered jumper; insulated; 6 mm wide; I_N 32 A



1 to 2	781-452	100 (25)
1 to 3	781-453	100 (25)
1 to 4	781-454	100 (25)
1 to 5	781-455	50 (25)
1 to 6	781-456	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Test plug module; snaps together; 6 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A	281-407	100 (25)

Operating tool; specialty blade; for all TOPJOB® terminal blocks



	777-310	1

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic
6 mm²; 782 Series and 10 (16) mm²; 784 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
1000 V / 8 kV / 3 ❷	600 V, 30 A
I_N 41 A	600 V, 25 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	782-601	25
blue	782-604 ❸	25
light gray	782-992 ❹	50

2-conductor ground terminal block		
green-yellow	782-607	25
green-yellow	782-607/999-950 ❹	25

Other terminal blocks with the same profile:		
N-disconnect	782-613	Page 348
Potential	782-623	Page 348

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)

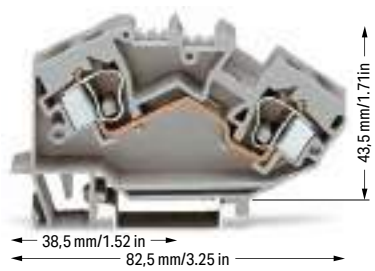
B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide

gray	709-311	100 (25)

Technical Data	
0.2 … 10 (16) mm² ❶	24 … 6 AWG
1000 V / 8 kV / 3 ❷	600 V, 50 A
I_N 57 A	600 V, 35 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	784-601	25
blue	784-604 ❸	25
light gray	784-992 ❺	25

2-conductor ground terminal block		
green-yellow	784-607	25
green-yellow	784-607/999-950 ❺	25

Other terminal blocks with the same profile:		
N-disconnect	784-613	Page 348
Potential	784-623	Page 348

Accessories; item-specific

Adjacent jumper; insulated; I_N 57 A

gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A

gray	284-409	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	284-415	50 (25)

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide

gray	709-311	100 (25)

B-type spacer plate; snaps together; 2 mm wide

gray	709-312	100 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow	284-400	100 (25)

❶ Max. conductor cross section: 16 mm²

❷ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 6 mm² / 24 … 10 AWG
690 V; 39 A
(see Section 15)

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 10 mm²/24 … 8 AWG
690 V; 53 A
(see Section 15)

Please observe the application notes:
Test plug module, page 423
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	782-317	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue	777-305	25

Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1

6

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic
16 mm²; 783 Series and 35 mm²; 785 Series

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
1000 V / 8 kV / 3 ❶	600 V, 65 A
I_N 76 A	600 V, 50 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	783-601	25
blue	783-604 ❷	25
light gray	783-992 ❸	25

2-conductor ground terminal block		
green-yellow	783-607	25
green-yellow	783-607/999-950 ❸	25

Other terminal blocks with the same profile:		
N-disconnect	783-613	Page 348
Potential	783-623	Page 348

Accessories; item-specific

End and intermediate plate; 1.5 mm thick



orange 783-317 100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 283-415 50 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow 283-400 100 (25)

Adjacent jumper; insulated; I_N 70 A



gray 283-402 100 (25)
yellow-green 283-422 100 (25)

Alternate jumper; insulated; I_N 76 A



gray 283-409 100 (25)

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks



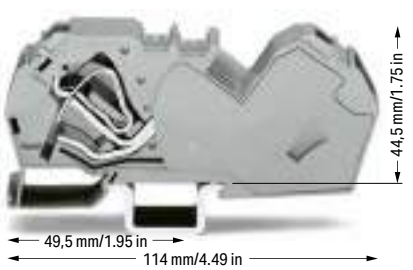
gray 283-407 25

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plug; for 1.5 … 16 mm² terminal blocks



gray 283-404 25

Technical Data	
6 … 35 mm²	8 … 2 AWG
1000 V / 8 kV / 3 ❶	600 V, 115 A
I_N 125 A	600 V, 125 A
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	785-601	25
blue	785-604	25

2-conductor ground terminal block		
green-yellow	785-607	25

Other terminal blocks with the same profile:		
N-disconnect	785-613	Page 349
Potential	785-623	Page 349

Accessories; item-specific

Adjacent jumper; insulated; I_N 85 A



gray 285-435 50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 285-416 50 (25)

Finger guard; touch-proof cover protects unused conductor entries



yellow 285-401 100

Power tap; IN 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray 283-407 25

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plug; for 1.5 … 16 mm² terminal blocks



gray 283-404 25

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 6 mm² / 24 … 10 AWG
690 V; 39 A
(see Section 15)

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 10 mm²/24 … 8 AWG
690 V; 53 A
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray 283-404 25

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick



blue 777-305 25

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 793-501 5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

Operating tool; specialty blade; for all TOPJOB® terminal blocks



777-310 1

CAGE CLAMP®

N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block TOPJOB® Classic

2.5 mm²; 780 Series and 4 mm²; 781 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	600 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	780-613 ❷	50

Other terminal blocks with the same profile:		
Through	780-601	Page 303

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	600 V, 20 A
I_N 32 A	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	781-613 ❷	50

1-conductor power distribution disconnect terminal block		
gray	781-623 ❸	50

Other terminal blocks with the same profile:		
Through	781-601	Page 304



2-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	781-643 ❷	50

2-conductor power distribution disconnect terminal block		
gray	781-653 ❸	50

Other terminal blocks with the same profile:		
Through	781-631	Page 304

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ See page 349

❸ See page 349

Approvals and corresponding ratings, visit www.wago.com

Accessories

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick



orange | 780-317 | 100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue | 780-321 | 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick



blue | 777-305 | 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A | 210-133 | 1

Busbar cover; 1000 mm long



transparent | 777-303 | 1

Connector; for busbar; with blue cover; 2.5 … 16 mm²



blue | 210-281 | 100 (50)

Connector; for busbar; 2.5 … 35 mm²



unplated | 209-105 | 50

Lock-out; prevents reclosing of slide link; snap-on type



orange | 777-300 | 100 (25)

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



red | 210-297 | 100 (25)

Operating tool; specialty blade; for all TOPJOB® terminal blocks



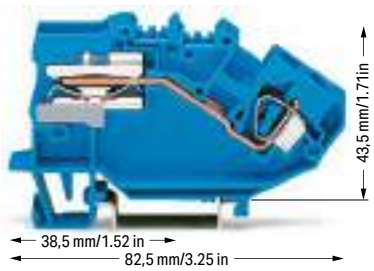
777-310 | 1

6

N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block TOPJOB® Classic

6 mm²; 782 Series and 10 (16) mm²; 784 Series and 16 mm²; 783 Series and 35 mm²; 785 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3 ❷	600 V, 30 A
I_N 41 A	
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	**782-613**	25

1-conductor power distribution disconnect terminal block		
gray	**782-623**	25

Other terminal blocks with the same profile:		
Through	**782-601**	Page 345

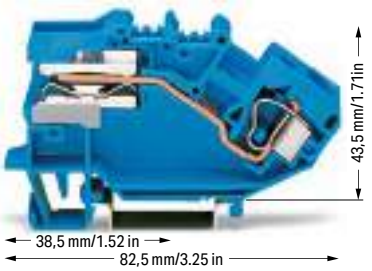
Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue **782-321** 100 (25)

Technical Data	
0.2 … 10 (16) mm² ❶	24 … 6 AWG
400 V / 6 kV / 3 ❷	
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	**784-613**	25

1-conductor power distribution disconnect terminal block		
gray	**784-623**	25

Other terminal blocks with the same profile:		
Through	**784-601**	Page 345

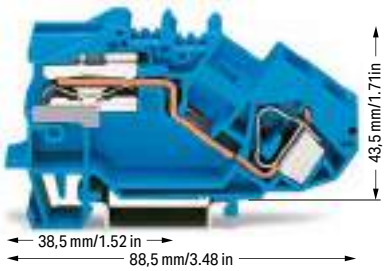
Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue **782-321** 100 (25)

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
400 V / 6 kV / 3 ❷	600 V, 65 A
I_N 68 A	
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	**783-613**	25

1-conductor power distribution disconnect terminal block		
gray	**783-623**	25

Other terminal blocks with the same profile:		
Through	**783-601**	Page 346

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick



blue **783-321** 100 (25)

Accessories

Appropriate marking systems: WMB/WMB Inline/WFB

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick



blue **777-305** 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm



I_N 140 A **210-133** 1

Busbar cover; 1000 mm long



transparent **777-303** 1

Connector; for busbar; with blue cover; 2.5 … 16 mm²



blue **210-281** 100 (50)

Connector; for busbar; 2.5 … 35 mm²



unplated **209-105** 50

Lock-out; prevents reclosing of slide link; snap-on type



orange **782-300** 100 (25)

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



red **210-297** 100 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain **793-501** 5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

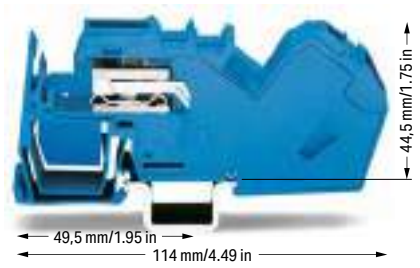
plain **793-5501** 5

Operating tool; specialty blade; for all TOPJOB® terminal blocks



777-310 1

Technical Data	
6 … 35 mm²	8 … 2 AWG
400 V / 6 kV / 3 ❷	
I_N 125 A	600 V, 125 A
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	785-613	15

1-conductor power distribution disconnect terminal block		
gray	785-623	15

Other terminal blocks with the same profile:		
Through	783-601	Page 346

Accessories; item-specific			
Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick			
	blue	783-321	100 (25)

❶ Max. conductor cross section: 16 mm²

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ See column 5 (bottom)

❹ See column 6 (bottom)

Approvals and corresponding ratings, visit www.wago.com



The 35 mm² (2 AWG) terminal blocks are the latest addition to WAGO TOPJOB®, the professional range of rail-mount terminal blocks for building installations. These terminal blocks, which include an end plate, are just 16 mm wide. Their compact design allows them to fit into standard distribution boxes. The lower conductor entry angle makes it much easier to terminate 35 mm² (2 AWG) conductors.
Furthermore, the N-busbar holder is integrated into the terminal block, eliminating separate holders.



Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.



Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.

N-conductor disconnect terminal blocks:
For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Power distribution disconnect terminal blocks:
According to DIN VDE 0100-710, "Requirements for operating facilities, rooms and special installations – medical facilities," equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO's power distribution disconnect terminal blocks meet these requirements.

Disconnect/Test Terminal Blocks; with a Pivoting Knife Disconnect
280 Series
Description and Installation



Power distribution using an adjacent jumper – knife disconnect used to disconnect individual outputs.



Pivoting a knife disconnect.



Pivoting knife disconnect clearly indicates circuit state by defined, notched positions "ON" <—> "OFF."

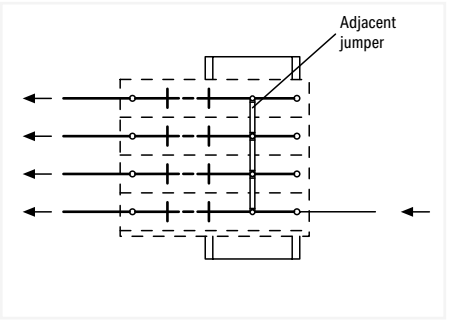
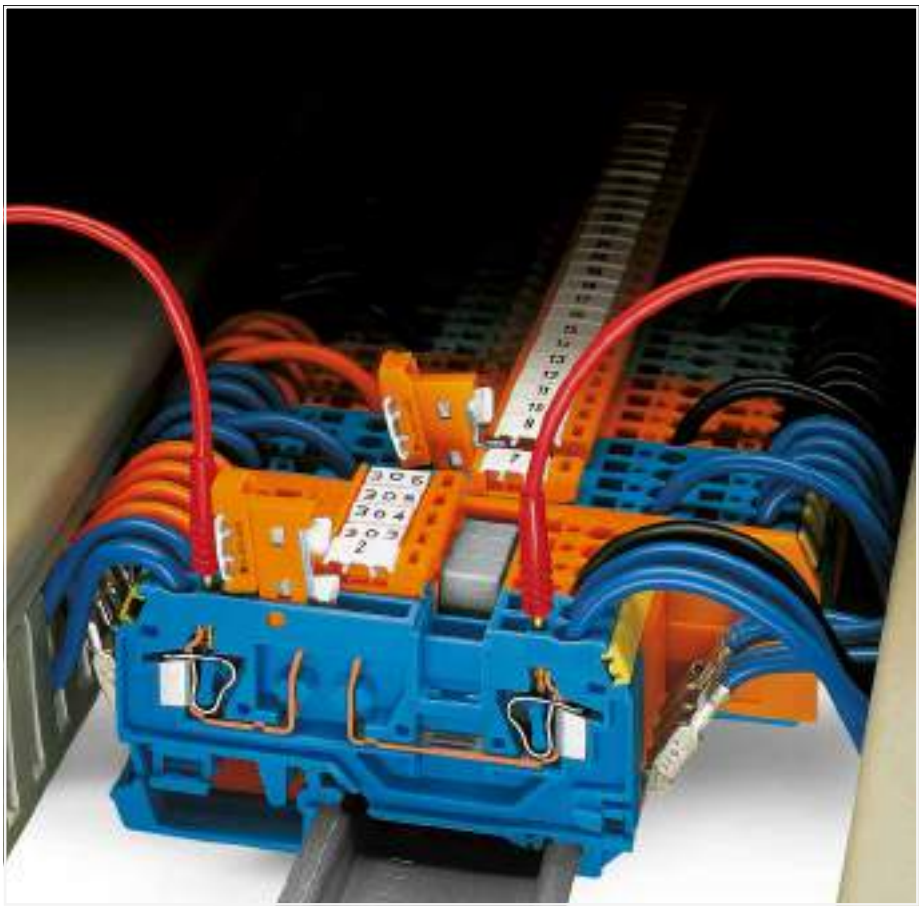


Diagram of the assembly as shown in the picture above





Power distribution using disconnect link in supply line – disconnection of all outputs.

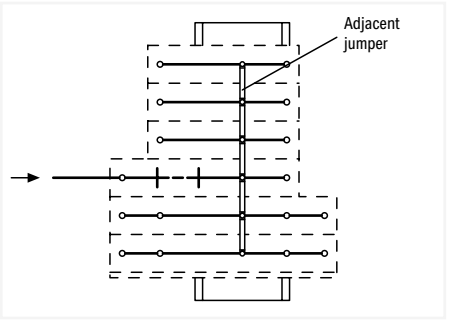


Diagram of the assembly as shown in the picture above



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.

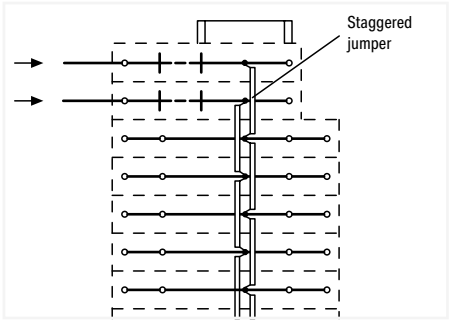


Diagram of the assembly as shown in the picture on the left



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®



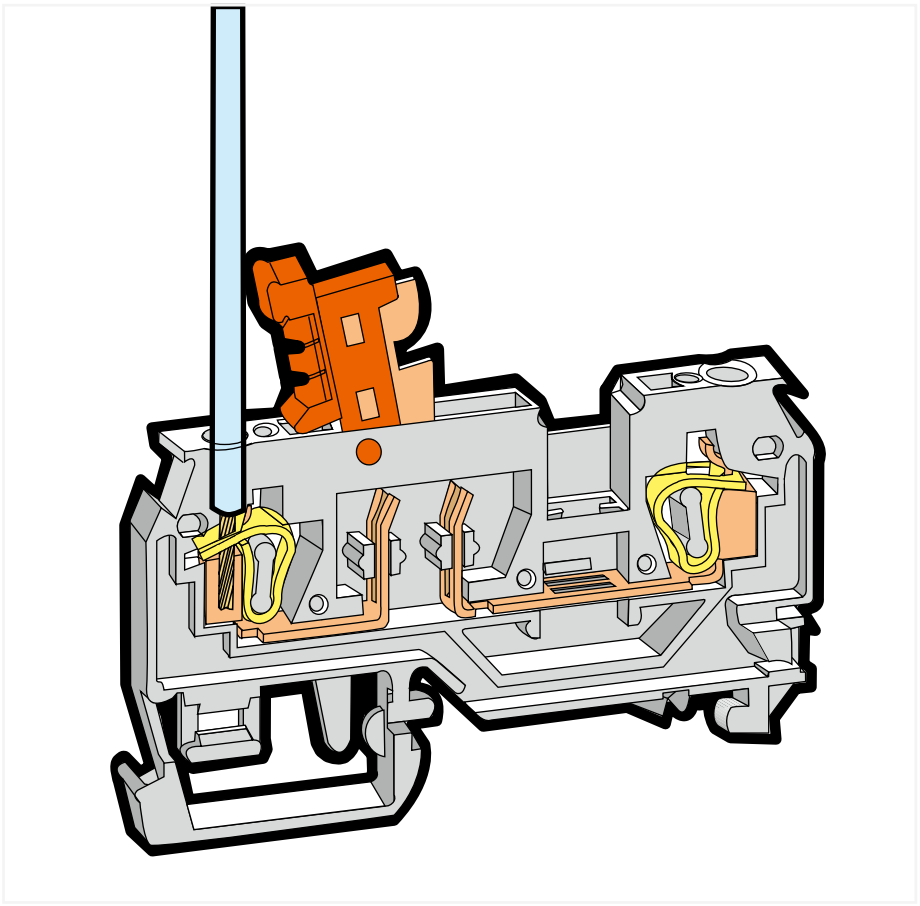
Shield contact via (2.5 x 0.8) mm solder/crimp quick disconnect terminal



Testing with voltage tester.



Terminal block marking: with WMB (center position) and Mini-WSB markers (on the sides)





fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)

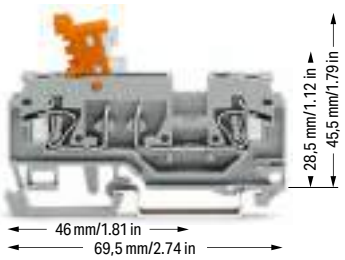


fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

2-Conductor Disconnect/Test Terminal Block without/with Shield Contact
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-870	100

Gray terminal block housing
Gray disconnect link

gray	280-868	100

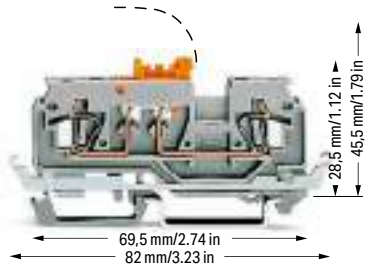
Blue terminal block housing
Orange disconnect link

blue	280-876 ❷	100

Orange terminal block housing
Orange disconnect link

orange	280-879	100

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-871	100

Gray terminal block housing
Gray disconnect link

gray	280-869	100

Orange terminal block housing
Orange disconnect link

blue	280-880	100

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



orange	280-371	100 (25)
gray	280-374	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 k V = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated



10-way	280-440	1

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

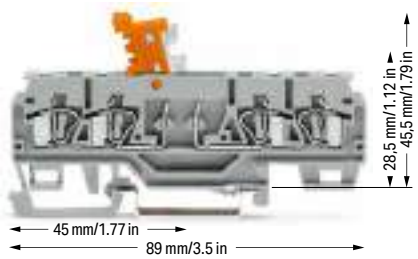
plain	248-501	5

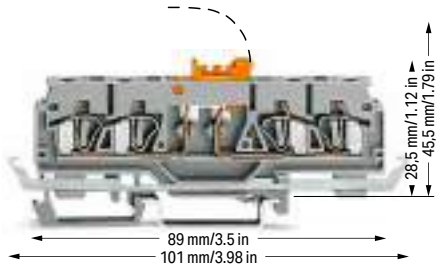
CAGE CLAMP®

4-Conductor Disconnect/Test Terminal Block without/with Shield Contact
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 k V = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

4-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-874	100

4-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-875	100

Gray terminal block housing
Gray disconnect link

gray	280-881	100

Gray terminal block housing
Gray disconnect link

gray	280-882	100

Blue terminal block housing
Orange disconnect link

blue	280-885 ❷	100

Orange terminal block housing
Orange disconnect link

blue	280-884	100

Orange terminal block housing
Orange disconnect link

orange	280-883	100

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



orange	280-373	100 (25)
gray	280-376	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated



10-way	280-440	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

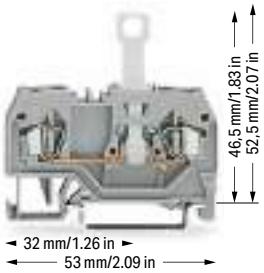


red	210-136	50

6

Disconnect/Test Terminal Block; with Disconnect Tab
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
gray	280-912	50
blue	280-914	50
orange	280-913	50

Other terminal blocks with the same profile:		
Through	280-901	Page 314

Accessories; item-specific

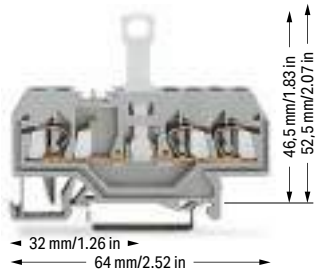
End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)
light gray	280-356	100 (25)

Separator; oversized; 2 mm thick

orange	280-311	100 (25)
gray	280-310	100 (25)
light gray	280-357	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



3-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
gray	280-683	50

Other terminal blocks with the same profile:		
Through	280-681	Page 314

Accessories; item-specific

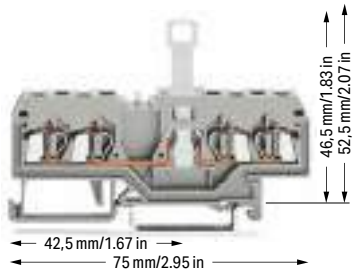
End and intermediate plate; 2.5 mm thick

orange	280-326	100 (25)
gray	280-324	100 (25)
light gray	280-358	100 (25)

Separator; oversized; 2 mm thick

orange	280-346	100 (25)
gray	280-344	100 (25)
light gray	280-359	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
gray	280-836	50
blue	280-839	50
orange	280-805	50

Other terminal blocks with the same profile:		
Through	280-833	Page 314

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)



2-conductor disconnect/test terminal block; with disconnect tab; with integrated test sockets

Color	Item No.	Pack. Unit
gray	280-829	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	**280-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	**280-415**	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**280-482**	200 (25)
3-way	**280-483**	200 (25)
10-way	**280-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**280-492**	200 (25)

Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1
10-way	**280-440**	1

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)



red	**709-170**	200 (25)

Test socket; insulated; 2 mm Ø



red	**209-107**	

Test socket; insulated; 2.3 mm Ø



yellow	**209-108**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	**210-136**	50



Disconnect terminal block with colored tab to indicate the switching status
(red = disconnected)



Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.



Pulling the disconnect tab via operating tool.

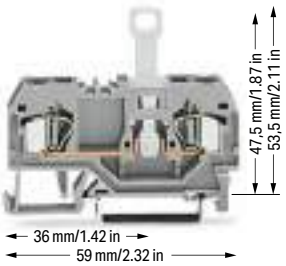


Pulling the disconnect tab by hand.

6

Disconnect/Test Terminal Block; with Disconnect Tab
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3	300 V, 15 A
I_N 10 A	300 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



2-conductor disconnect terminal block; with disconnect tab		
Color	Item No.	Pack. Unit
gray	281-912	50

Other terminal blocks with the same profile:		
Through	281-901	Page 318

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-329	100 (25)
	gray	281-328	100 (25)
	light gray	281-349	100 (25)
Separator; oversized; 2 mm thick			
	orange	281-331	100 (25)
	gray	281-330	100 (25)
	light gray	281-350	100 (25)

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

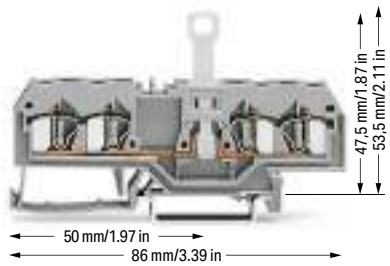


3-conductor disconnect terminal block; with disconnect tab		
Color	Item No.	Pack. Unit
gray	281-683	50

Other terminal blocks with the same profile:		
Through	281-681	Page 318

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-326	100 (25)
	gray	281-324	100 (25)
	light gray	281-355	100 (25)
Separator; oversized; 2 mm thick			
	orange	281-346	100 (25)
	gray	281-344	100 (25)
	light gray	281-356	100 (25)

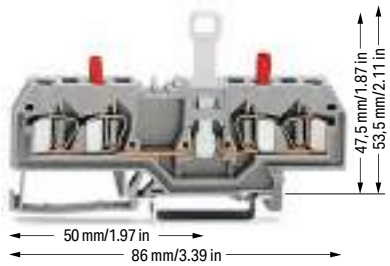
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



4-conductor disconnect terminal block; with disconnect tab		
Color	Item No.	Pack. Unit
gray	281-659	50
blue	281-660	50

Other terminal blocks with the same profile:		
Through	281-652	Page 318

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-335	100 (25)
	gray	281-334	100 (25)
	light gray	281-345	100 (25)
Separator; oversized; 2 mm thick			
	orange	281-339	100 (25)
	gray	281-338	100 (25)
	light gray	281-347	100 (25)



2-conductor disconnect/test terminal block; with disconnect tab; with integrated test sockets		
Color	Item No.	Pack. Unit
gray	281-666	50

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-335	100 (25)
	gray	281-334	100 (25)
	light gray	281-345	100 (25)
Separator; oversized; 2 mm thick			
	orange	281-339	100 (25)
	gray	281-338	100 (25)
	light gray	281-347	100 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**281-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**281-471**	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip



dark gray	**281-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	**281-415**	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**281-482**	100 (25)
3-way	**281-483**	100 (25)
5-way	**281-485**	100 (25)
10-way	**281-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**281-492**	100 (25)

Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1
10-way	**281-440**	1

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)



red	**709-170**	200 (25)

Test socket; insulated; 2 mm Ø



red	**209-107**	

Test socket; insulated; 2.3 mm Ø



yellow	**209-108**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	**210-136**	50



Installing a disconnect lock on the terminal block's disconnect tab (picture shows a 2-pin disconnect carrier terminal block, 769 Series).



Unlocking a disconnect lock.



Removing a disconnect lock.



Double Safety:
The disconnect tab has been designed for maximum operational safety.

As soon as the disconnect tab is in the disconnect position, it can be protected against unintentional reconnection by using the disconnect lock.
Only through intentional and focused use of a tool, can the disconnect lock be removed and the circuit reconnected.

Features/Benefits:
- Easy to use
- Install/remove disconnect lock with just one hand
- Clearly identify disconnect tab position
- Higher safety
- Intentional effort is required to reconnect the circuit

6

Disconnect/Test Terminal Blocks; for Current and Voltage Transformer Circuits
282 Series
Description and Installation



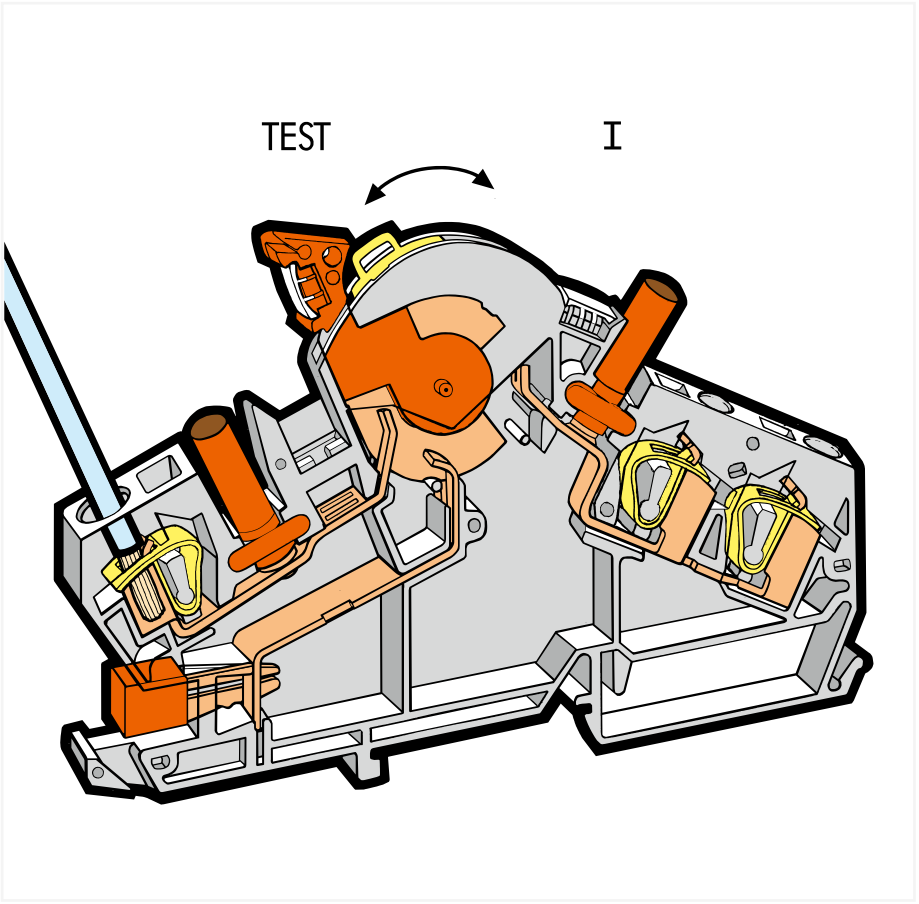
Inserting an insulated, touch-proof adjacent jumper into the protected shorting position.



Terminal strip permanently prepared for current transformer circuits.



Lock-out snaps into one of two notched positions, preventing accidental operation of the disconnect link.





Snapping a transparent locking cover
onto 1–8 disconnect links:
a) Mechanically lock several links for multi-pole switching applications
b) Protect markers



Interlocking link mechanically locks multiple links for multi-pole switching applications.



Touch-proof test sockets for touch-proof 4 mm Ø test plugs (not available from WAGO, but are offered by industry suppliers such as, Fabrikat Multi-Contact)



Labeling via WMB Multi Marking System.



CAGE CLAMP® terminates the following copper conductors:
solid "s"

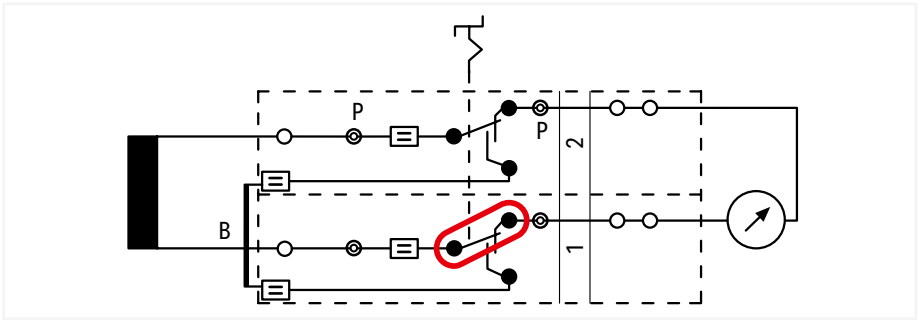


stranded "st"



fine-stranded "f-st", also with tinned single strands

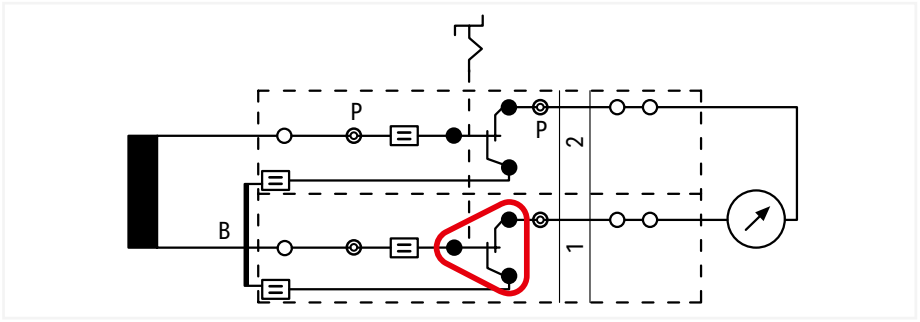
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

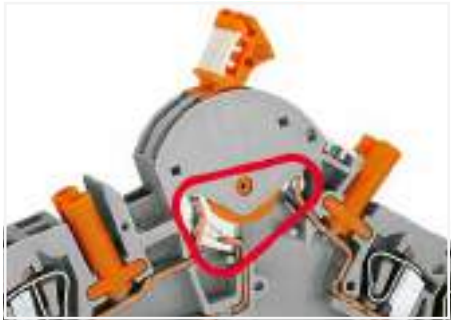




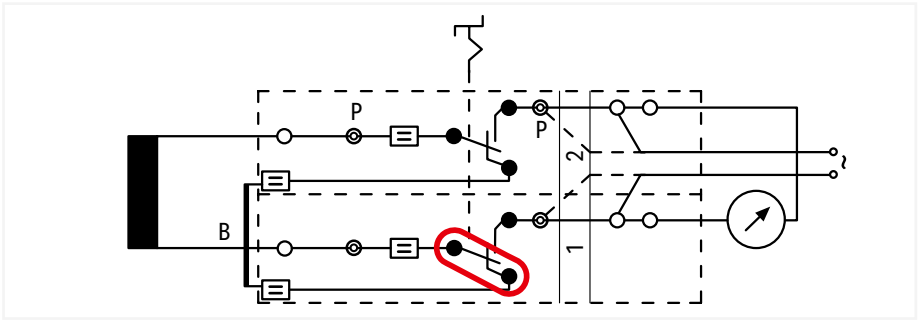
Disconnect link in notched "I" position
In "I" operating position, the measurement device is connected to the transformer.

B = shorting jumper, P = test socket



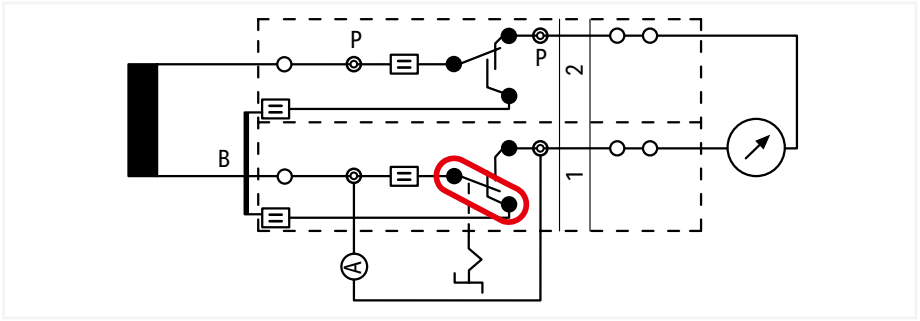


Disconnect link in transition from "I" to "TEST" (terminal blocks 1 + 2)
The transformer is not disconnected from the measurement device, yet the shorting path is activated by moving the disconnect link from "I" to "TEST."





Disconnect link in notched "TEST" position (terminal blocks 1 + 2)
The measurement device/relay is electrically disconnected from the transformer. If required, external voltage can be applied to the measurement device/relay via the test socket, or the 2nd CAGE CLAMP® connection.





Disconnect link in notched position "I" (terminal block 2) Disconnect link in notched position "TEST" (terminal block 1) – measurement testing
Before moving the disconnect link of terminal block 1 into the notched "TEST" position, the reference current meter must be inserted into the test socket of terminal block 1.



fine-stranded,
tip-bonded

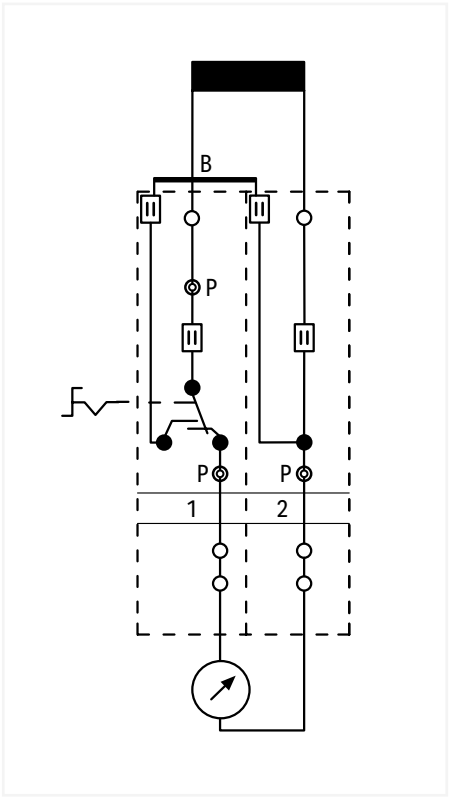


fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Circuit Configuration Examples



Measuring set for a single-phase current transformer (without measurement testing)



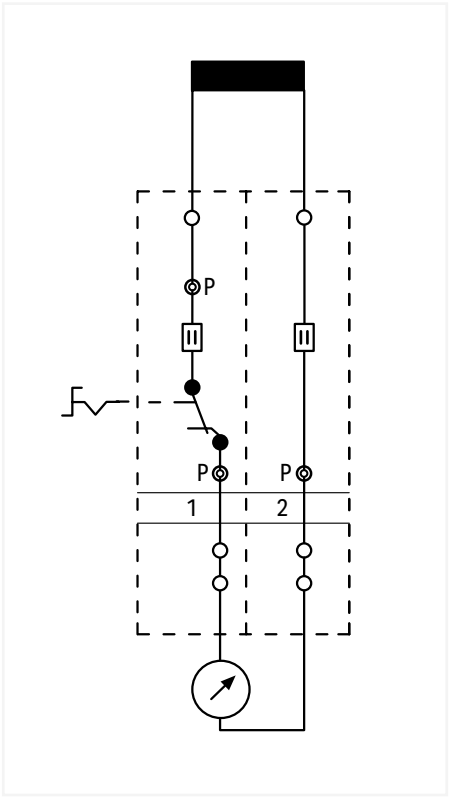
Terminal blocks required:
- 1 x disconnect/test terminal block (282-870)
- 1 x through terminal block (282-865)
- 1 x jumper, orange (282-424)
- 1 x end plate, orange (282-386)
- In addition: locking cover, lock-out



Additional commoning possible with circuit-related adjacent jumpers or testing option via test plug adapter (209-170) on transformer side.



CAGE CLAMP® connection
Inserting a conductor via operating tool (5.5 x 0.8 mm blade).



Measuring set for a single-phase voltage transformer



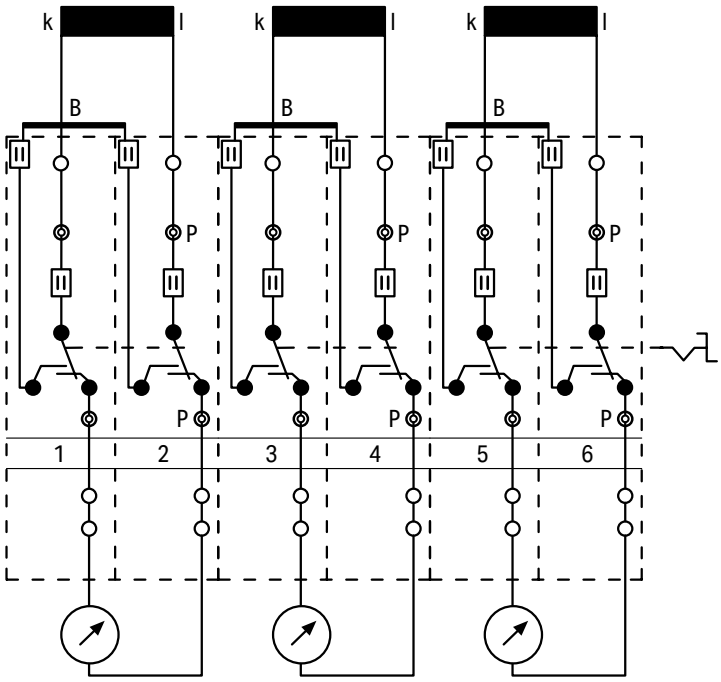
Terminal blocks required:
- 1 x disconnect/test terminal block (282-860)
- 1 x through terminal block (282-866)
- 1 x end plate, orange (282-386)
- In addition: locking cover, lock-out

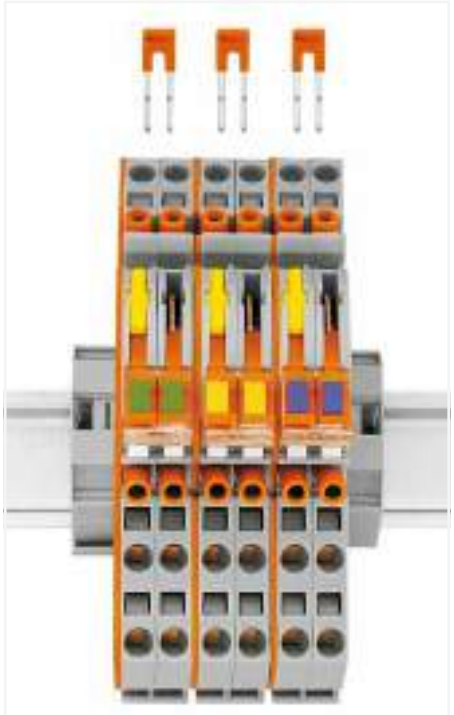


A lock-out seal can be used on the disconnect link in notched “I” position.



Additional CAGE CLAMP® connection on the measurement device side, e.g., when connecting wire commoning chains or applying an external voltage.

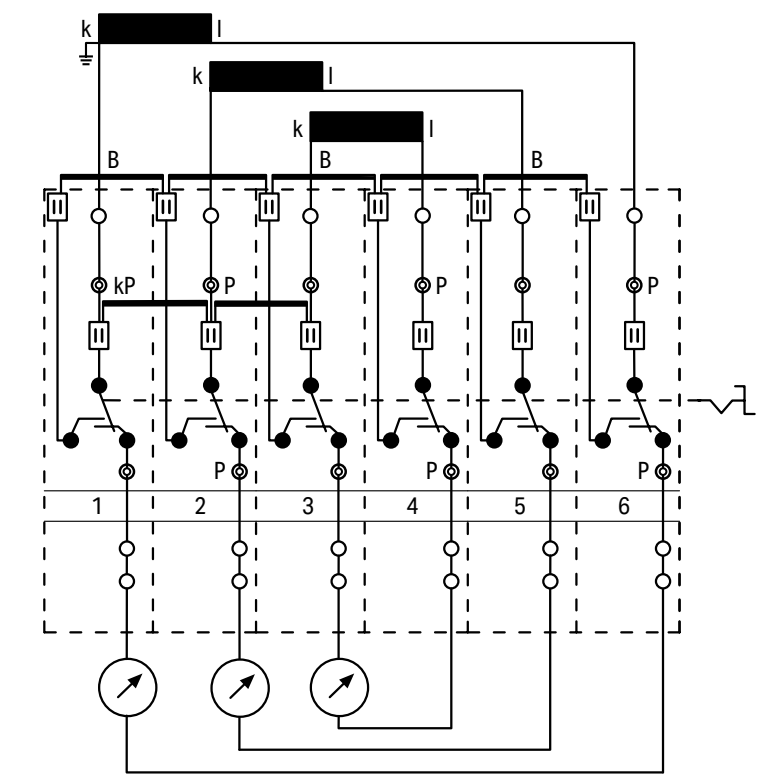


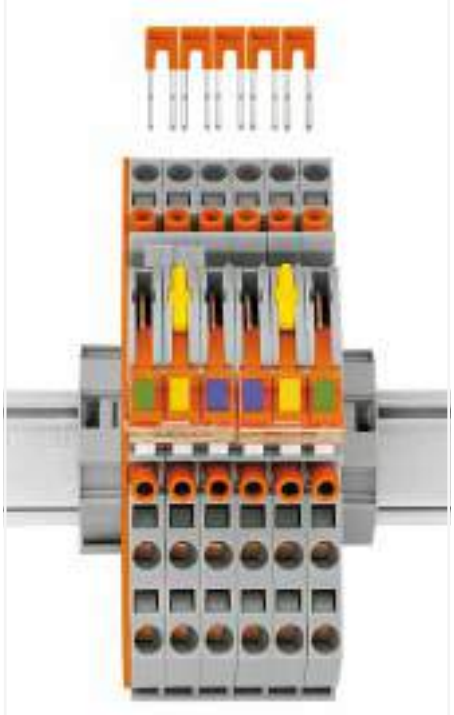


Measuring set for a three-phase current transformer
Pairs of disconnect links are interconnected via interlocking link or locking cover.
Measurement testing is performed after the interlocking is released.

B = shorting jumper, P = test socket

Terminal blocks required:
- 6 x disconnect/test terminal block (282-870)
- 3 x jumper, orange (282-424)
- 3 x end plate, orange (282-386)
- In addition: interlocking link, locking cover, lock-out





Measuring set for a three-phase current transformer with 'Y' point
All six disconnect links are interconnected via interlocking link.

kP = 'Y' point jumper

Terminal blocks required:
- 6 x disconnect/test terminal block (282-870)
- 5 x jumper, orange (282-424)
- 2 x jumper, gray (282-402)
- 1 x end plate, orange (282-386)
- In addition: interlocking link, locking cover, lock-out

Disconnect/Test Terminal Block, Through/Ground Conductor Terminal Block; for Current and Voltage Transformer Circuits

6 mm²; 282 Series

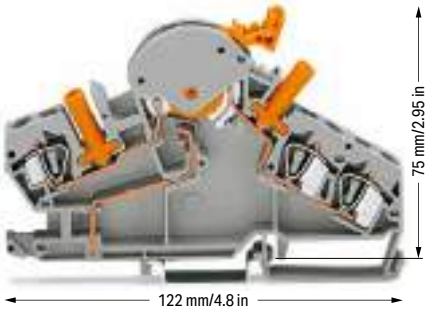
6

Technical Data

0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A

Terminal block width: 8 mm / 0.315 inch

12 … 13 mm / 0.47 … 0.51 inch



Disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs; e.g., for current transformer circuits; orange disconnect link

Color	Item No.	Pack. Unit
gray	282-870 ❷ ❸	20

Accessories; item-specific

End and separator plate; 1.5 mm thick; without lock-out seal option



	orange	282-386	50 (10)
	gray	282-391	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option



	orange	282-387	50 (10)
	gray	282-392	50 (10)

Lock-out device; for disconnect link



	yellow	282-384	100 (20)

Locking cover; mechanically locks multiple links; transparent



	1-pole	282-881	50 (10)
	2-pole	282-882	50 (10)
	3-pole	282-883	50 (10)
	4-pole	282-884	50 (10)
	5-pole	282-885	50 (10)
	6-pole	282-886	50 (10)
	7-pole	282-887	50 (10)
	8-pole	282-888	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long



	transparent	210-254	1

Adjacent jumper; insulated; I_N 41 A



	orange	282-424	100 (25)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow



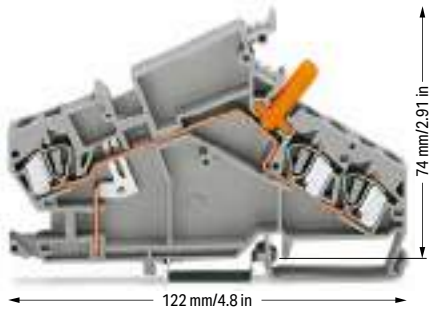
	k/l (50x)	794-5553/000-002	5

Technical Data

0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A

Terminal block width: 8 mm / 0.315 inch

12 … 13 mm / 0.47 … 0.51 inch



Through terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for current transformer circuits

Color	Item No.	Pack. Unit
gray	282-865 ❸	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick



	orange	282-385	50 (10)
	gray	282-390	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow



	k/l (50x)	794-5553/000-002	5

Adjacent jumper; insulated; I_N 41 A



	orange	282-424	100 (25)

Technical Data

0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A

Terminal block width: 8 mm / 0.315 inch

12 … 13 mm / 0.47 … 0.51 inch



Disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs; e.g., for voltage transformer circuits; light gray disconnect link

Color	Item No.	Pack. Unit
gray	282-860 ❷ ❸	20

Accessories; item-specific

End and separator plate; 1.5 mm thick; without lock-out seal option



	orange	282-386	50 (10)
	gray	282-391	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option



	orange	282-387	50 (10)
	gray	282-392	50 (10)

Lock-out device; for disconnect link



	yellow	282-384	100 (20)

Locking cover; mechanically locks multiple links; transparent



	1-pole	282-881	50 (10)
	2-pole	282-882	50 (10)
	3-pole	282-883	50 (10)
	4-pole	282-884	50 (10)
	5-pole	282-885	50 (10)
	6-pole	282-886	50 (10)
	7-pole	282-887	50 (10)
	8-pole	282-888	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long



	transparent	210-254	1

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue



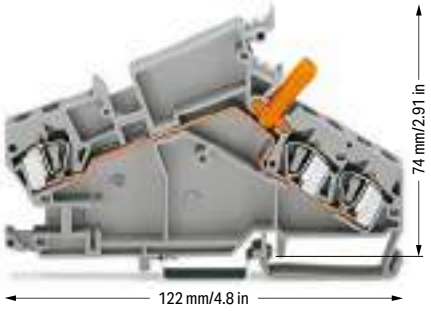
	U/V (50x)	794-5554/000-006	5

CAGE CLAMP®

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A

Terminal block width: 8 mm / 0.315 inch

12 … 13 mm / 0.47 … 0.51 inch



Through terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for voltage transformer circuits

Color	Item No.	Pack. Unit
gray	282-866 ❸	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick



orange	282-385	50 (10)
gray	282-390	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue



U/V (50x)	794-5554/000-006	5

Technical Data	
0.2 … 6 mm²	24 … 10 AWG

Terminal block width: 8 mm / 0.315 inch

12 … 13 mm / 0.47 … 0.51 inch



Ground conductor terminal block; with touch-proof test socket; for 4 mm Ø test plugs, e.g., for voltage transformer circuits

Color	Item No.	Pack. Unit
gray	282-868 ❸	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick



orange	282-385	50 (10)
gray	282-390	50 (10)

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Max. height when rotating the disconnect link (incl. locking cover): 92 mm/3.62 inch

❸ For operating stickers, please refer to our online catalog:
- for 282-870: Item No. 210-412
- for 282-865: Item No. 210-415
- for 282-860: Item No. 210-414
- for 282-866: Item No. 210-413

Approvals and corresponding ratings, visit www.wago.com

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	282-415	100 (25)

Adjacent jumper; insulated; I_N 41 A



gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Wire commoning chain; insulated; 4 connections; 3 x 110 mm; I_N 24 A



black	709-110	1

Wire commoning chain; insulated; 3 connections; 2 x 120 mm; I_N 24 A



black	709-111	1

Wire commoning chain; insulated; 3 connections; 2 x 170 mm; I_N 24 A



black	709-112	1

Group marker carrier; e.g., for 282 Series; angled



gray	209-144	50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	793-501	5

6

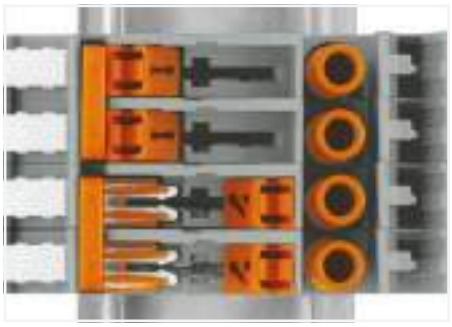
CAGE CLAMP®

Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks 282 Series

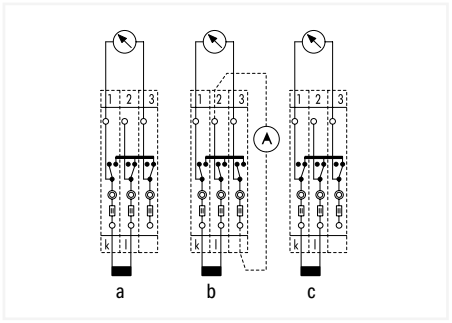
Description and Installation



Transverse switching terminal blocks
Left: Adjacent jumper for commoning of switching lever
Right: Commoning with orange jumper



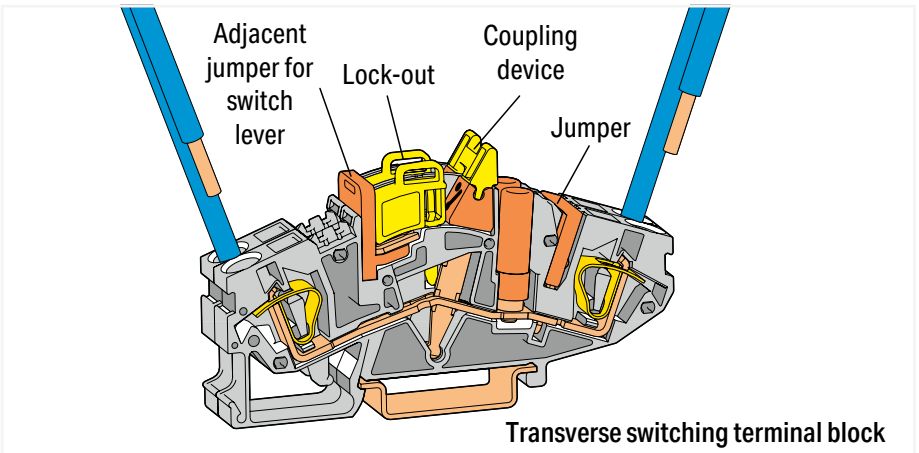
Switch positions
Left: closed
Right: open

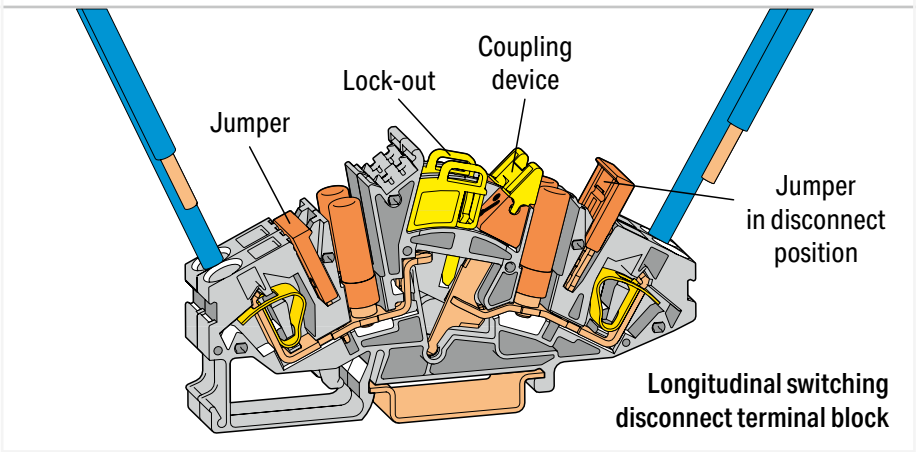


Current transformer circuit with transverse switching terminal blocks
a = Normal operation b = Transformer short circuit
c = Transformer short circuit



Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).







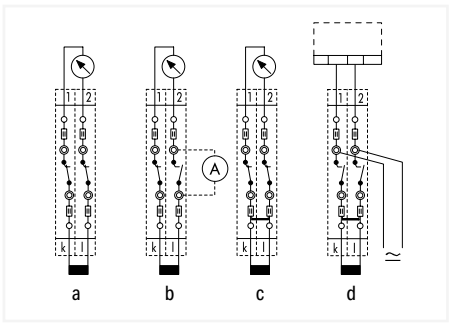
CAGE CLAMP® connection
Inserting a conductor.



Inserting a lock-out.



Longitudinal switching disconnect terminal blocks



Current transformer circuit with longitudinal switching disconnect terminal blocks
a = Normal operation b = Measured value test
c = Transformer short circuit d = Relay test



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

Jumpers with Safety Lid; for Longitudinal Switching Disconnect Terminal Blocks
282 Series



Jumper with safety lid
Jumper in pre-locked position



Jumper with safety lid
Longitudinal switching disconnect terminal blocks with inserted jumper, including safety lid



Jumper with safety lid
Jumper with raised safety lid



Jumper with safety lid
Removing a jumper via safety lid.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Transverse Switching Terminal Block, Longitudinal Switching Disconnect Terminal Block and Through Terminal Block (e.g., for Current Transformer Circuits)

6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	600 V, 30 A
I_N 30 A	300 V, 36 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor disconnect/test terminal block; transverse switching; with touch-proof test socket; for 4 mm Ø test plug

Color	Item No.	Pack. Unit
gray	282-811 ❷	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

	orange	282-366	50 (10)
	gray	282-361	50 (10)

Lock-out device; for disconnect link

	yellow	282-370	100 (25)

Coupling device; mechanically locks multiple links; yellow

	2-way	282-372	50 (10)
	3-way	282-373	50 (10)
	4-way	282-374	50 (10)

Adjacent jumper for switching lever; insulated; I_N 30 A; orange

	2-way	282-442	50 (10)
	3-way	282-443	50 (10)
	4-way	282-444	50 (10)
	5-way	282-445	50 (10)
	6-way	282-446	50 (10)

Accessories; 282 Series

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	282-415	100 (20)

Jumper; insulated; I_N 30 A; orange

	2-way	282-432	50 (10)
	3-way	282-433	50 (10)
	4-way	282-434	50 (10)
	5-way	282-435	50 (10)
	6-way	282-436	50 (10)
	7-way	282-437	50 (10)
	8-way	282-438	50 (10)
	9-way	282-439	50 (10)
	10-way	282-440	50 (10)

Jumper with safety lid; insulated; I_N 30 A; orange

	2-way	282-432/100-000	50 (10
	3-way	282-433/100-000	50 (10
	4-way	282-434/100-000	50 (10

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	600 V, 30 A
I_N 30 A	300 V, 36 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor disconnect/test terminal block; longitudinal switching; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	282-821 ❷	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

	orange	282-365	50 (10)
	gray	282-360	50 (10)

Lock-out device; for disconnect link

	yellow	282-370	100 (25)

Coupling device; mechanically locks multiple links; yellow

	2-way	282-372	50 (10)
	3-way	282-373	50 (10)
	4-way	282-374	50 (10)

Appropriate marking systems: WMB/WMB Inline/WFB

Jumper; insulated; I_N 30 A; orange

	1-3	282-433/011-000	50 (10)
	1-3-5	282-435/011-000	50 (10)
	1-4-5	282-435/301-000	50 (10)
	1-3-4-5	282-435/300-000	50 (10)
	1-2-4-6	282-436/301-000	50 (10)
	1-4-6	282-436/304-000	50 (10)
	1-3-5-7	282-437/011-000	50 (10)
	1-4-7	282-437/012-000	50 (10)
	1-2-5-8	282-438/300-000	50 (10)
	1-4-7-8	282-438/301-000	50 (10)
	1-3-5-7-9	282-439/011-000	50 (10)

Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)

	gray	282-369	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	282-841	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

	orange	282-365	50 (10)
	gray	282-360	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow

	k/l (50x)	794-5553/000-002	5

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue

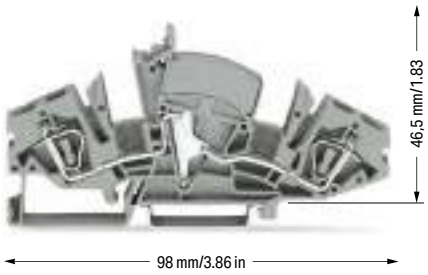
	U/V (50x)	794-5554/000-006	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

	plain	793-5501	5

CAGE CLAMP®

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3 ❶	
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Max. height when rotating the disconnect link (incl. locking cover): 45 mm / 1.77 inch
For operating stickers, please refer to our online catalog:
- for 282-811: Item No. 210-424
- for 282-821: Item No. 210-423

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; without test sockets

Color	Item No.	Pack. Unit
gray	282-841/049-000	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

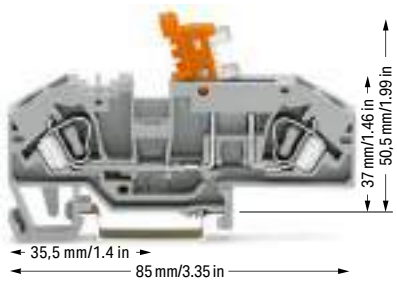
	orange	282-365	50 (10)
	gray	282-360	50 (10)

6

Disconnect Terminal Block and Ground Conductor Disconnect Terminal Block and Through Terminal Block of Same Profile

6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3	600 V, 30 A
I_N 30 A	300 V, 35 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



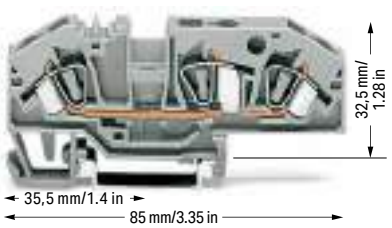
2-conductor disconnect terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	282-697	25
blue	282-695	25

Other terminal blocks with the same profile:

Through	282-699	Page 368

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V / 8 kV / 3	600 V, 30 A
I_N 41 A	600 V, 35 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



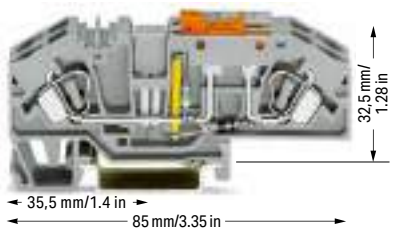
3-conductor through terminal block; with test point; same profile as disconnect terminal blocks

Color	Item No.	Pack. Unit
gray	282-699	25
blue	282-694	25

Other terminal blocks with the same profile:

Disconnect	282-697	Page 368
Ground cond. disc.	282-640	Page 368
Fuse	282-696	Page 330

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
Terminal block width: 16 mm / 0.63 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Ground conductor disconnect terminal block; with test point; orange disconnect link; gray

	Item No.	Pack. Unit
24 V	282-640	12
48 V	282-641	12
120 V	282-638	12
230 V	282-639	12

Other terminal blocks with the same profile:

Through	282-699	Page 368

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A



gray	282-402	100 (25)

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer module; snaps together; 5 mm wide



gray	709-311	100 (25)

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A



gray	282-402	100 (25)

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer module; snaps together; 5 mm wide



gray	709-311	100 (25)

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End plate; 2 mm thick



orange	282-333	100 (25)
gray	282-334	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



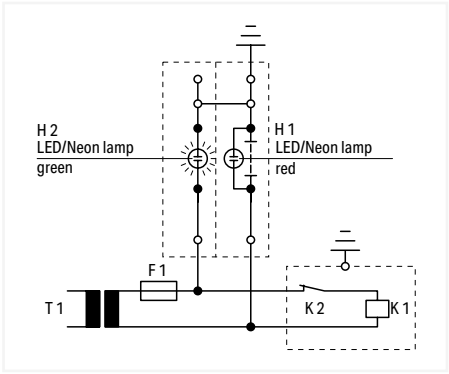
yellow	282-415	100 (25)

❶ 400 V / 800 V = rated voltage
6 kV / 8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

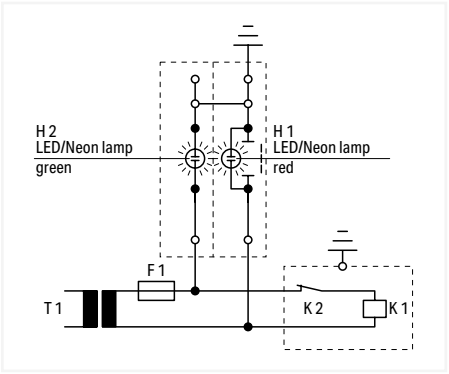
Approvals and corresponding ratings, visit www.wago.com



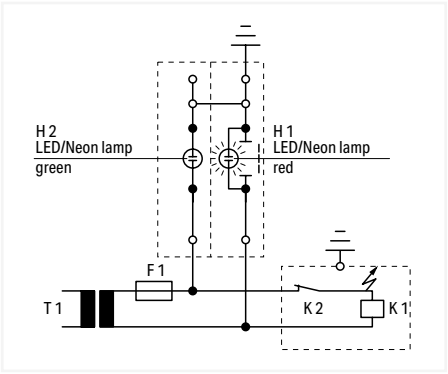
Ground conductor disconnect terminal block – top view



Operating condition
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/ neon lamp illuminates.



Testing via conductor entry.



Testing via jumper contact slot.



Power supply via disconnect link – disconnecting all outputs.

IEC 60204/DIN VDE 0113 "Safety of machinery – Electrical equipment of machines – Part 1: General requirements," Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

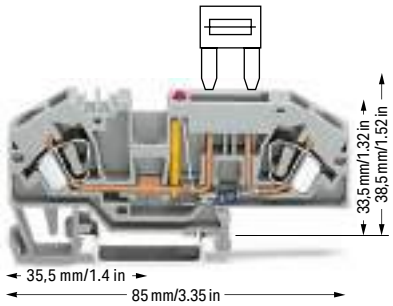
In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.

In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

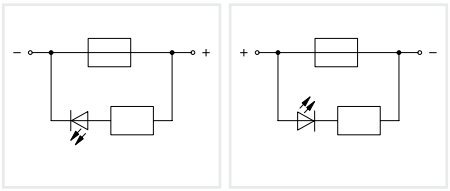
Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

Fuse Terminal Block for Automotive Blade-Style Fuses
6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3 ❶	12 V, 30 A
I_N 25 A (30 A) ❷	12 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



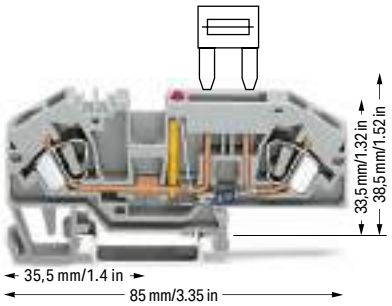
282-698/281-429 282-698/281-449



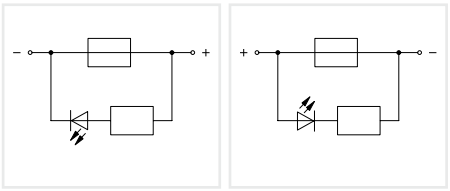
2-conductor fuse terminal block for automotive blade-style fuses; 12 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-698/281-429	25
gray	282-698/281-449	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3 ❶	24 V, 30 A
I_N 25 A (30 A) ❷	24 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



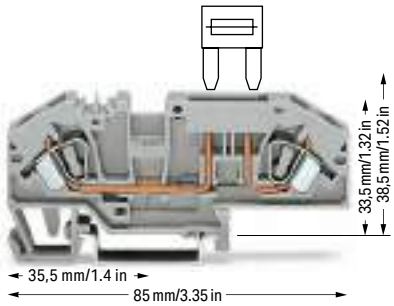
282-698/281-413 282-698/281-434



2-conductor fuse terminal block for automotive blade-style fuses; 24 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-698/281-413	25
gray	282-698/281-434	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3 ❶	600 V, 30 A
I_N 25 A (30 A) ❷	24 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block for automotive blade-style fuses; with test point; without blown fuse indication; Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-696	25

Other terminal blocks with the same profile:		
Through	282-699	Page 368

Accessories; 282 Series

Appropriate marking systems: WMB/Marking strips

End plate; 2 mm thick



gray	282-333	100 (25)
orange	282-334	100 (25)

Adjacent jumper; insulated; I_N 41 A



gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer module; snaps together; 5 mm wide



gray	709-311	100 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree

❷ LED power consumption: 4.8 mA

Blade-style fuses are not offered by WAGO.
Thermal automotive circuit breakers are not offered by WAGO.
WAGO recommends automotive circuit breakers from ETA.

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



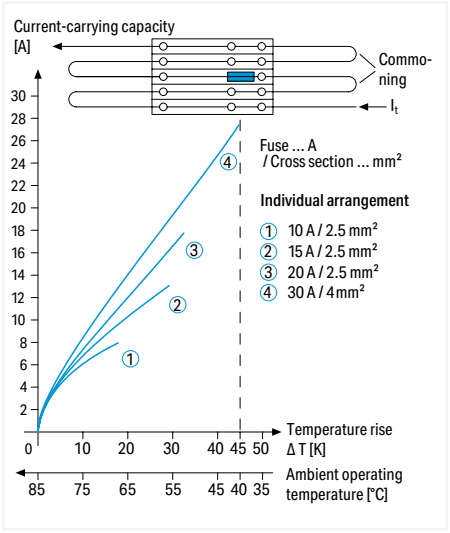
Inserting a fuse.



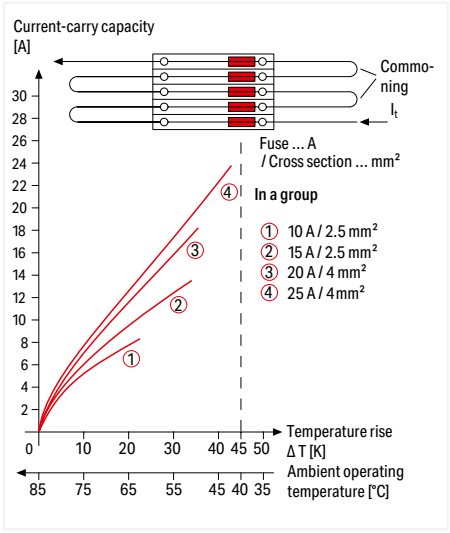
Blown fuse indication by LED



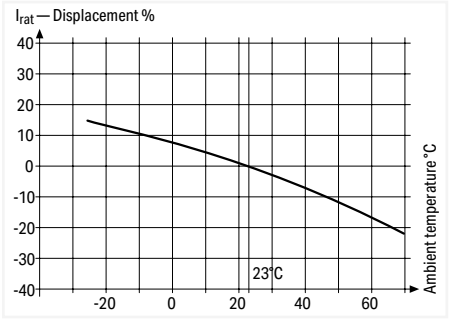
2-conductor fuse terminal block with mini-automotive blade-style fuse



Application Notes on Fuse Terminal Blocks
Diagram: Individual arrangement



Application Notes on Fuse Terminal Blocks
Diagram: Block arrangement



Application Notes on Fuse Terminal Blocks
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C).
Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).

Information from the mini-automotive, blade-type fuse manufacturers

Derating T_{amb} /°C	%	F_T
– 25	14	0.877
– 20	13	0.885
– 15	12	0.893
– 10	11	0.901
– 5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	– 2	1.020
35	– 4	1.042
40	– 6	1.064
45	– 8	1.087
50	– 10	1.111
55	– 13	1.149
60	– 16	1.190
65	– 19	1.235
70	– 22	1.282

With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder; for Glass Cartridge Fuses
282 Series
Description and Installation



Blown fuse indication by LED or neon lamp



Fuse replacement:
Before replacing a fuse, pivot the fuse holder into the locked open position.



Fuse replacement:
One end of the fuse is automatically ejected from the holder when opening the cover.



CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.





Commoning
Distributing current to several fuse-protected circuits via insulated push-in type jumpers.



Voltage test, either at input or output with fuse holder in closed position (live)



Through test with fuse holder in open position (no voltage)



Voltage test at input in the test slot of the current bar



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



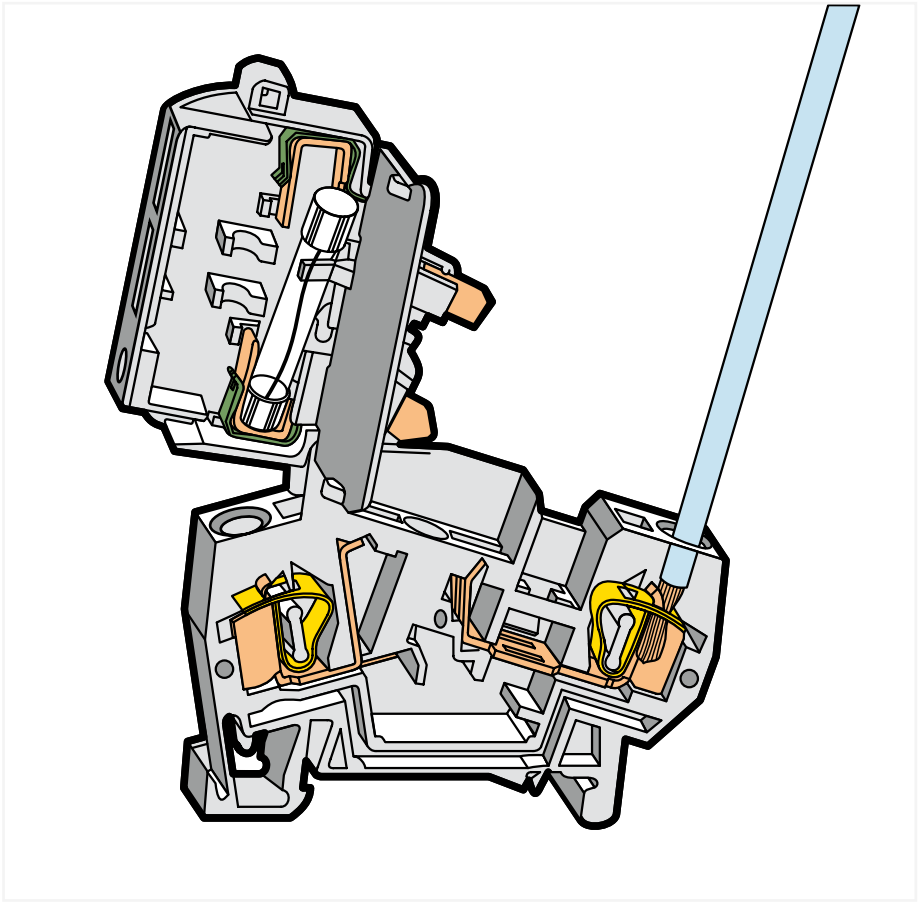
Fuse replacement:
Easily removing a fuse by hand.



Fuse replacement:
Insert a new fuse and snap the cover closed.



Storing a spare fuse (fuse holder without blown fuse indi-cation) for the types of fuses 5 x 20 mm, 5 x 25 mm and 5 x 30 mm.





Touch-proof protection in all positions of the fuse holder



Fuse holder will remain safely locked open in vertical assemblies.



Testing voltage at the output via separate test slot.



Measuring current between jumper slot and separate test slot.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

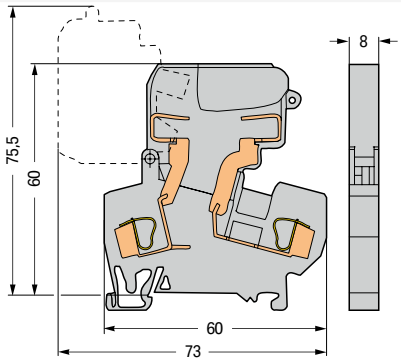
Fused Disconnect Terminal Block with a Pivoting Fuse Holder; for 5 x 20 mm, 5 x 25 mm and 5 x 30 mm Glass Cartridge Fuses

4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶ ❷	600 V, 10 A
I_N 10 A	600 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-611	50
orange	281-616	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

gray	281-612	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

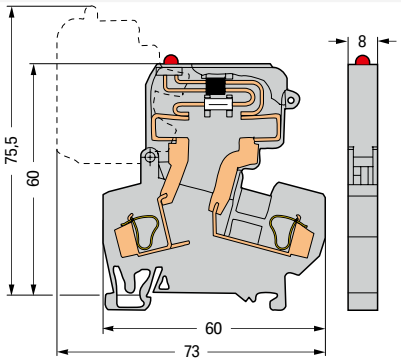
gray	281-622	50

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶ ❷	30 V, 10 A
I_N 10 A	230 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

	Item No.	Pack. Unit
15 … 30 V	281-611/281-541	50
30 … 65 V	281-611/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

15 … 30 V	281-612/281-541	50
30 … 65 V	281-612/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

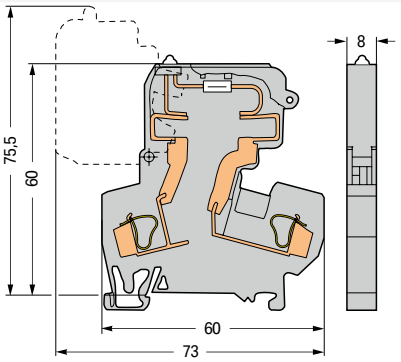
15 … 30 V	281-622/281-541	50
30 … 65 V	281-622/281-542	

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶ ❷	220 V, 10 A
I_N 10 A	230 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

	Item No.	Pack. Unit
230 V	281-611/281-417	50
120 V	281-611/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

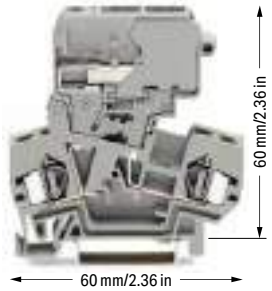
230 V	281-612/281-417	50
120 V	281-612/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

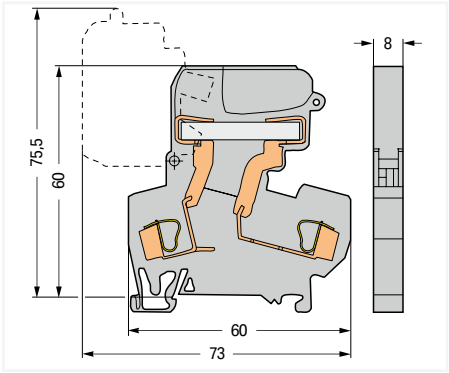
230 V	281-622/281-417	50
120 V	281-622/281-418	

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 16 A
I_N 16 A	
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	281-624	100
orange	281-672	100

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse (see page 344).

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



gray	281-309	100 (25)
orange	281-311	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	281-402	200 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A	281-407	100 (25)

Interlocking link; mechanically locks multiple links; 1 m long



transparent	210-254	1



Fused disconnect or disconnect terminal blocks with a width of 8 mm can be assembled adjacently. At the end of an assembly or if there is no adjacent fused disconnect or disconnect terminal block, an end or intermediate plate must be used.



All fuse holders are printed with correct fuse size.



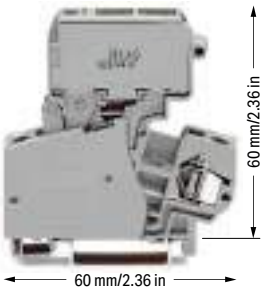
5 x 20 mm, 5 x 25 mm and ¼" x 1" fuse holders are fitted with stops on the inside of the cover.

6

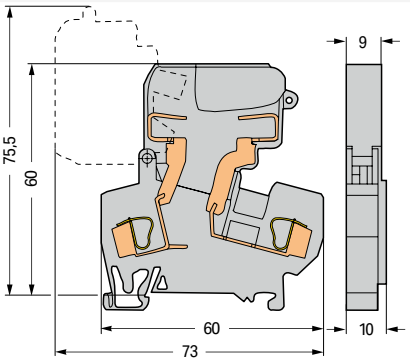
Fused Disconnect Terminal Block with a Pivoting Fuse Holder; for ¼" x 1" and ¼" x 1¼" Glass Cartridge Fuses

4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶ ❷	600 V, 10 A
I_N 10 A	600 V, 10 A
Terminal block width: 10 mm / 0.394 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-613	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

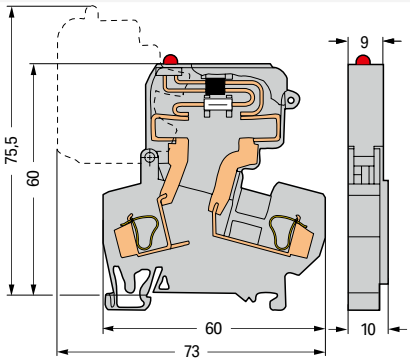
gray	281-623	50

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶ ❷	30 V, 10 A
I_N 10 A	30 V, 10 A
Terminal block width: 10 mm / 0.394 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

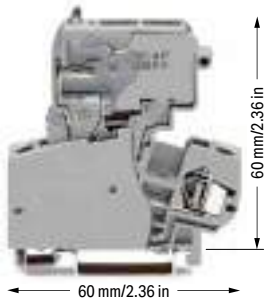
	Item No.	Pack. Unit
15 … 30 V	281-613/281-541	50
30 … 65 V	281-613/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

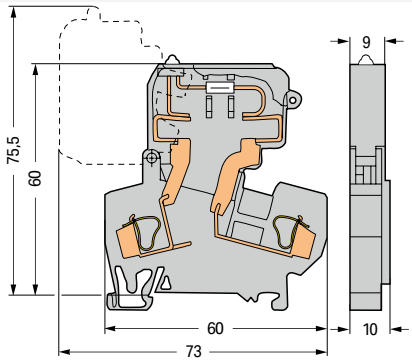
15 … 30 V	281-623/281-541	50
30 … 65 V	281-623/281-542	50

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶ ❷	220 V, 10 A
I_N 10 A	100 V, 10 A
Terminal block width: 10 mm / 0.394 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

	Item No.	Pack. Unit
230 V	281-613/281-417	50
120 V	281-613/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

230 V	281-623/281-417	50
120 V	281-623/281-418	50

Glass cartridge fuses are available upon request.

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse (see page 344).

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



An intermediate plate is supplied with all 10 mm wide fused disconnect terminal blocks. At the end of an assembly or if there is no adjacent fused disconnect terminal block, an end or intermediate plate must be used.

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



gray	**281-309**	100 (25)
orange	**281-311**	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	**281-402**	200 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	**249-125**	100 (10)
L = 110 mm	**249-126**	100 (10)
L = 250 mm	**249-127**	100 (10)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 … 4 mm² terminal blocks



gray	**280-404**	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A	**281-407**	100 (25)

Interlocking link; mechanically locks multiple links; 1 m long



transparent	**210-254**	1



Each fuse holder features two marker slots for custom WMB Multi markers (example shows 8 mm wide terminal blocks).



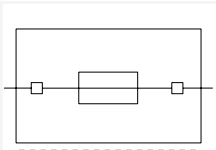
Ganging several fuse holders with an interlocking link (example shows 8 mm wide terminal blocks).

Fuse Plug on Carrier Terminal Block 4 mm²
281 Series

Technical Data
250 V / I_N 6,3 A ❹
Plug width: 6 mm / 0.236 inch



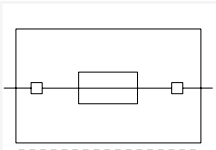
281-511



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; 6 mm wide
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-511	50

281-512



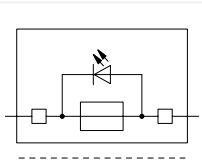
Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with hole for one LED (for self-assembly); 6 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication.

Color	Item No.	Pack. Unit
gray	281-512	50

Technical Data
250 V / I_N 6,3 A ❹
Plug width: 6 mm / 0.236 inch



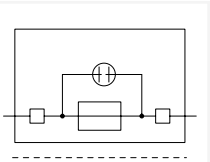
281-512/281-501



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with LED; 24 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 ... 20 mA

Color	Item No.	Pack. Unit
gray	281-512/281-501	50

281-512/281-418



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 120 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Color	Item No.	Pack. Unit
gray	281-512/281-418	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 230 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Color	Item No.	Pack. Unit
gray	281-512/281-417	50

Accessories; for fuse plugs

Appropriate marking systems: 4 mm wide WSB for plug and WMB terminal block

2-conductor carrier terminal block; 0.08 ... 4 mm² / 28 ... 12 AWG
Terminal block width: 6 mm / 0.236 inch



gray	281-916	50

End and intermediate plate; 2.5 mm thick



orange	281-329	100 (25)
gray	281-328	100 (25)

3-conductor carrier terminal block; 0.08 ... 4 mm² / 28 ... 12 AWG
Terminal block width: 6 mm / 0.236 inch



gray	281-610	50

End and intermediate plate; 2.5 mm thick



orange	281-326	100 (25)
gray	281-324	100 (25)

4-conductor carrier terminal block; 0.08 ... 4 mm² / 28 ... 12 AWG
Terminal block width: 6 mm / 0.236 inch



gray	281-656	50

End and intermediate plate; 2.5 mm thick



orange	281-335	100 (25)
gray	281-334	100 (25)

Wire commoning chain; insulated; 50 connections; I_N 8 A



black	210-103	5

Wire commoning chain; insulated; 50 connections; I_N 8 A



blue	210-123	5

❹ Electrical ratings are given by the fuse or LED nominal voltage (see page 387).

Please observe the application notes: Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems: WMB/WMB Inline

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug



I_N 6.3 A	281-503	250 (25)

WSB marking card; white, 10 strips with 10 markers/card; 4 mm wide WSB markers

plain	209-701	5

WSB marking card; plain; 10 strips with 10 markers/card; 4 mm wide WSB markers

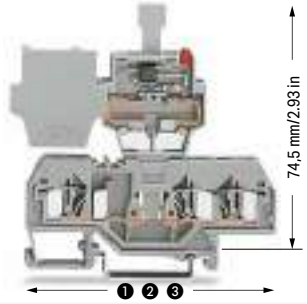


yellow	209-701/000-002	5
red	209-701/000-005	5
blue	209-701/000-006	5
gray	209-701/000-007	5
orange	209-701/000-012	5
light green	209-701/000-017	5
green	209-701/000-023	5
violet	209-701/000-024	5

WSB marking card; for fuse plugs (281-5..); white; 4 mm wide WSB markers



F1, ..., F10 (10x)	209-787	5
F11, ..., F20 (10x)	209-700/209-124	5
F21, ..., F30 (10x)	209-700/209-125	5
F31, ..., F40 (10x)	209-700/209-126	5
F41, ..., F50 (10x)	209-700/209-127	5



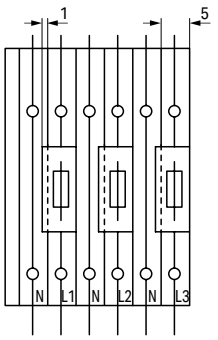
Length of carrier terminal blocks with a fuse plug:
1 59 mm / 2.32 inch for 281-916
2 73.5 mm / 2.89 inch for 281-610
3 86 mm / 3.39 inch for 281-656

Terminal blocks with side marking,
visit www.wago.com



Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 6 mm
- May be used as a disconnect plug in combination with a shorting link



Open side of terminal block left

When a corresponding neutral circuit is adjacent to the fuse plug, a 5 mm wide space-saving terminal block may be used, as a 6 mm fuse plug may overlap the terminal block (see diagram).
For example, 5 mm (0.197 inch) wide carrier terminal blocks can be used with an end plate.

Fuse Plug on Carrier Terminal Block 2.5 mm²
280 Series

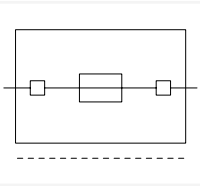
Technical Data

125 V / I_N 5 A

Plug width: 5 mm / 0.197 inch



280-850



Fuse plug; with soldered miniature fuse; 5 mm wide; gray
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
○ 250 mA FF	280-850	100
○ 500 mA FF	280-852	100
○ 1 A FF	280-854	100
○ 2 A FF	280-856	100

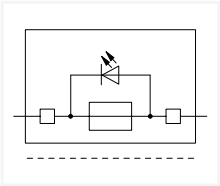
Technical Data

125 V / I_N 5 A

Plug width: 5 mm / 0.197 inch



280-850/281-413



Fuse plug; with soldered miniature fuse; with additional indicator lamp; red LED; 15 … 30 VDC; 5 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA

	Item No.	Pack. Unit
○ 250 mA FF	280-850/281-413	100
○ 500 mA FF	280-852/281-413	100
○ 1 A FF	280-854/281-413	100
○ 2 A FF	280-856/281-413	100

*12 AWG: THHN, THWN

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; for fuse plugs

Appropriate marking system: WMB

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-115 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

Accessories; for fuse plugs

Appropriate marking system: WMB

2-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray 280-916 100

End and intermediate plate; 2.5 mm thick



orange 280-309 100 (25)
gray 280-308 100 (25)

3-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray 280-610 100

End and intermediate plate; 2.5 mm thick



orange 280-326 100 (25)
gray 280-324 100 (25)

4-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray 280-816 100

End and intermediate plate; 2.5 mm thick



orange 280-315 100 (25)
gray 280-314 100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way 280-482 200 (25)
3-way 280-483 200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way 280-490 50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way 280-492 200 (25)

Operating tool; insulated

2-way 280-432 1
3-way 280-433 1

Operating tool; insulated



10-way 280-440 1

Wire commoning chain; insulated; 50 connections; I_N 8 A

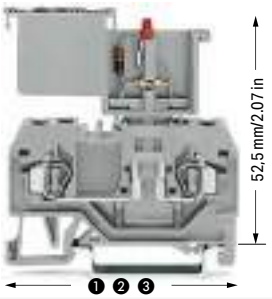


black 210-103 5

Wire commoning chain; insulated; 50 connections; I_N 8 A



blue 210-123 5



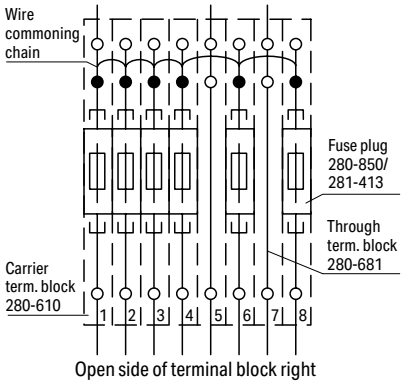
Length of carrier terminal blocks with a fuse plug:
1 53 mm / 2.09 inch for 280-916
2 64 mm / 2.52 inch for 280-610
3 75 mm / 2.95 inch for 280-816

Terminal blocks with side marking, visit www.wago.com



Using fuse plugs with rail-mount terminal blocks (280/281 and 769 Series) for control circuit protection is highly advantageous because the function and wiring levels are separated:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- Quick plug replacement in case of a blown fuse
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Terminal blocks/plugs provide ultra high-density wiring in a width of just 5 mm
- Optional LED indicates blown fuse



Fuse protection of individual outputs – supply via wire commoning chain

Fuse Terminal Block for 10 x 38 mm (1 3⁄32" x 1½") Cylindrical Fuses and Class CC Fuses
16 mm²; 811 Series

Technical Data	
2.5 … 16 mm²	14 … 6 AWG
1000 VDC, 32 A	1000 VDC, 30 A

Terminal block width: 17.5 mm / 0.689 inch
12 … 13 mm / 0.47 … 0.51 inch

Technical Data	
2.5 … 16 mm²	14 … 6 AWG
690 VAC, 32 A	750 VAC, 30 A
1000 VDC, 32 A	600 VAC, 30 A
	1000 VDC, 30 A

Terminal block width: 17.5 mm / 0.689 inch
12 … 13 mm / 0.47 … 0.51 inch

Technical Data	
2.5 … 16 mm²	14 … 6 AWG
32 A	600 V, 30 A
	600 V, 30 A

Terminal block width: 17.5 mm / 0.689 inch
12 … 13 mm / 0.47 … 0.51 inch

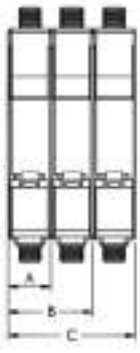






Dimensions (in mm):





Dimension	mm (inch)
A	17.3 (0.68)
B	34.6 (1.36)
C	51.9 (2.04)
D	87 (3.43)
E	104.9 (4.13)
F	78.3 (3.08)
G	59.7 (2.35)
H	39 (1.54)
I	55.2 (2.17)
J	5 (0.2)
K	47.4 (1.87)
L	2.5 (0.1)

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; for photovoltaic applications; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-316	12

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-310	12
2-pole	811-320	6
3-pole	811-330	4

Fuse terminal block for class CC fuses; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-410	12
2-pole	811-420	6
3-pole	811-430	4

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; for photovoltaic applications; with blown fuse indication; 230 … 1000 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-317	12

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; with blown fuse indication; 90 … 600 VAC; 115 … 600 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-311	12
2-pole	811-321	6
3-pole	811-331	4

Fuse terminal block for class CC fuses; with blown fuse indication; 90 … 600 VAC; 115 … 600 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-411	12
2-pole	811-421	6
3-pole	811-431	4

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; with blown fuse indication; 24 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-314	12

Fuse terminal block for class CC fuses; with blown fuse indication; 24 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-414	12

Accessories; 811 Series

Appropriate marking systems: WMB/Marking strips

Supply module; 35 mm²; 600 VAC; 1000 VDC



811-471 16 (4

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Coupling kit; for 12 poles



811-612 1

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide



gray 285-442 25

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-115 1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

Cylindrical fuses are not offered by WAGO. Temperature range: -35 … +85 °C
Electrical ratings are given by the fuse and blown fuse indication.

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 811 Series

Appropriate marking systems:
WMB/Marking strips

Push-in type jumper bar; insulated; I_N 63 A



2-way	**811-472**	50 (10)
3-way	**811-473**	40 (10)
4-way	**811-474**	40 (10)
5-way	**811-475**	40 (10)
6-way	**811-476**	30 (10)
7-way	**811-477**	20 (10)
8-way	**811-478**	20 (10)
9-way	**811-479**	20 (10)
10-way	**811-480**	20 (10)
11-way	**811-481**	20 (10)
12-way	**811-482**	20 (10)

Twin ferrule only for 811 Series; insulated; 12 mm long



Sleeve for 2 x 2.5 mm² / 14 AWG	**216-545**	100
Sleeve for 2 x 4 mm² / 12 AWG	**216-546**	100
Sleeve for 2 x 6 mm² / 10 AWG	**216-547**	100



CAGE CLAMP® connection
Inserting a conductor.
Opening the clamping unit via integrated lever.



Terminating ferruled conductors up to 10 mm² (8 AWG).



Inserting a fuse.



Removing a terminal block from the DIN-rail.



Open and close lever via operating tool.



Marker carriers (285-442) for continuous marking strips



WMB marking location for convenient identification



Jumper bar for quick and convenient commoning



Creating a 2- or 3-pole fuse terminal block via coupling kit.

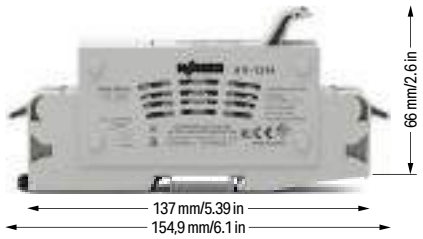
CAGE CLAMP®

Fused Disconnect Terminal Block; for 10/14 x 85 mm Cylindrical Fuses
16 mm²; 811 Series

Technical Data	
2.5 … 16 mm²	14 … 6 AWG
1500 VDC, 32 A	
Terminal block width: 22.3 mm / 0.878 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Cylindrical fuses are not offered by WAGO. Temperature range: -35 … +85 °C
Electrical ratings are given by the fuse and blown fuse indication.

Approvals and corresponding ratings, visit www.wago.com




Opening and closing lever via operating tool.

2-conductor fused disconnect terminal block; with a pivoting fuse holder; with test point; for 10/14 x 85 mm cylindrical fuses; for photovoltaic applications; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-1316	12


Removing a terminal block from the DIN-rail.


Inserting a fuse.


CAGE CLAMP® connection
Inserting a conductor.
Opening the clamping unit via integrated lever.


Terminating ferruled conductors up to 10 mm² (8 AWG).

Application Notes on Terminal Blocks for Glass Cartridge Fuses

Terminal Blocks for Glass Cartridge Fuses Tested per IEC or EN 60947-7-3/VDE 0611-6

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded.
The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C.
The temperature rise of the terminal blocks must be checked according to their application and mounting.
Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary.
More details are available from the manufacturers.

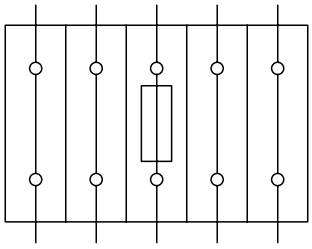
Glass Cartridge Fuses (5 x 20 mm)

Series Item No.	Overload and Short-Circuit Protection		Short-Circuit Protection Only	
	Individual Arrangement	Block Arrangement	Individual Arrangement	Block Arrangement
Fuse terminal blocks (with screw cap), front-entry (5 x 20 mm)				
282-122 282-124	2.5 W	2.5 W	4 W	4 W
Fused disconnect terminal block with a pivoting fuse holder for glass cartridge fuses (5 x 20 mm)				
281-611 281-616 281-611/281-541 281-611/281-542 281-611/281-417 281-611/281-418	2.5 W	1.6 W	4 W	4 W
Fuse plugs for glass cartridge fuses (5 x 20 mm)				
281-511 281-512 281-512/281-501 281-512/281-418 281-512/281-417	2.5 W	1.6 W	4 W	4 W

Glass Cartridge Fuses (6.3 x 32 mm)

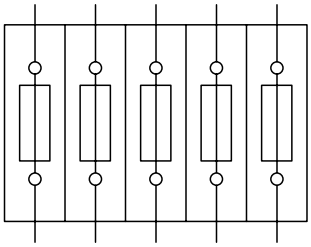
Series Item No.	Overload and Short-Circuit Protection		Short-Circuit Protection Only	
	Individual Arrangement	Block Arrangement	Individual Arrangement	Block Arrangement
Fuse terminal blocks (with screw cap), front-entry (1/4" x 11/4" ≈ 6.3 x 32 mm)				
282-128 282-128/281-418 282-128/281-413 282-128/281-417	2.5 W	2.5 W	4 W	4 W
Fused disconnect terminal block with a pivoting fuse holder for glass cartridge fuses (1/4" x 11/4" ≈ 6.3 x 32 mm)				
281-623 281-623/281-541 281-623/281-542 281-623/281-417 281-623/281-418	2.5 W	1.6 W	4 W	2.5 W

Individually arranged fuse terminal blocks



Terminal block assembly including
one fuse terminal block and through terminal blocks

Fuse terminal block in a group



Terminal block assembly including
five fuse terminal blocks

Sensor Terminal Blocks and Actuator Terminal Blocks
280 Series
Description and Installation



Snapping a terminal block onto the DIN-rail.
Terminal blocks with a grounding foot automatically establish a direct contact to the rail.



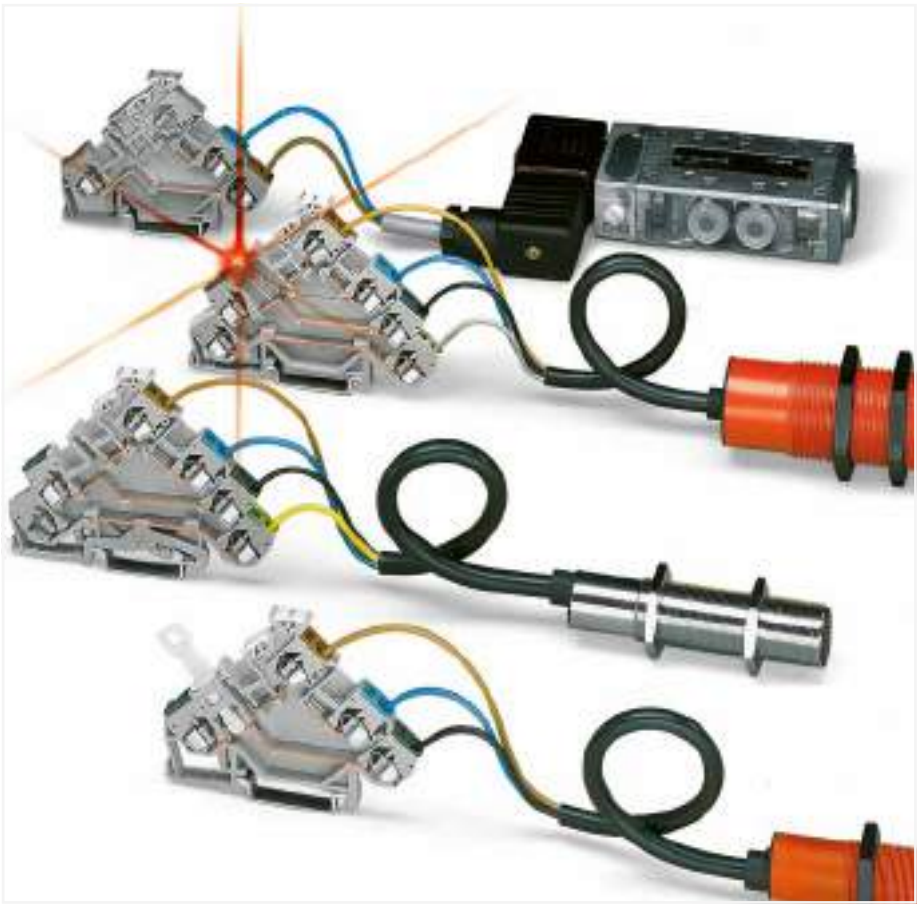
Removing a terminal block from the DIN-rail.
Notice: Remove jumper contacts first.

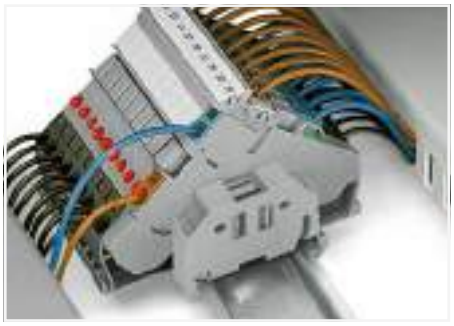


CAGE CLAMP® connection
Inserting a conductor via straight operating tool (210-720).



Commoning using an adjacent jumper (280-402).
Push jumper down until fully inserted.





Sensor terminal blocks
Power supply from control panel side



Sensor terminal blocks
Power supply from sensor side



Actuator terminal block; with shield connection; with a thermocouple



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



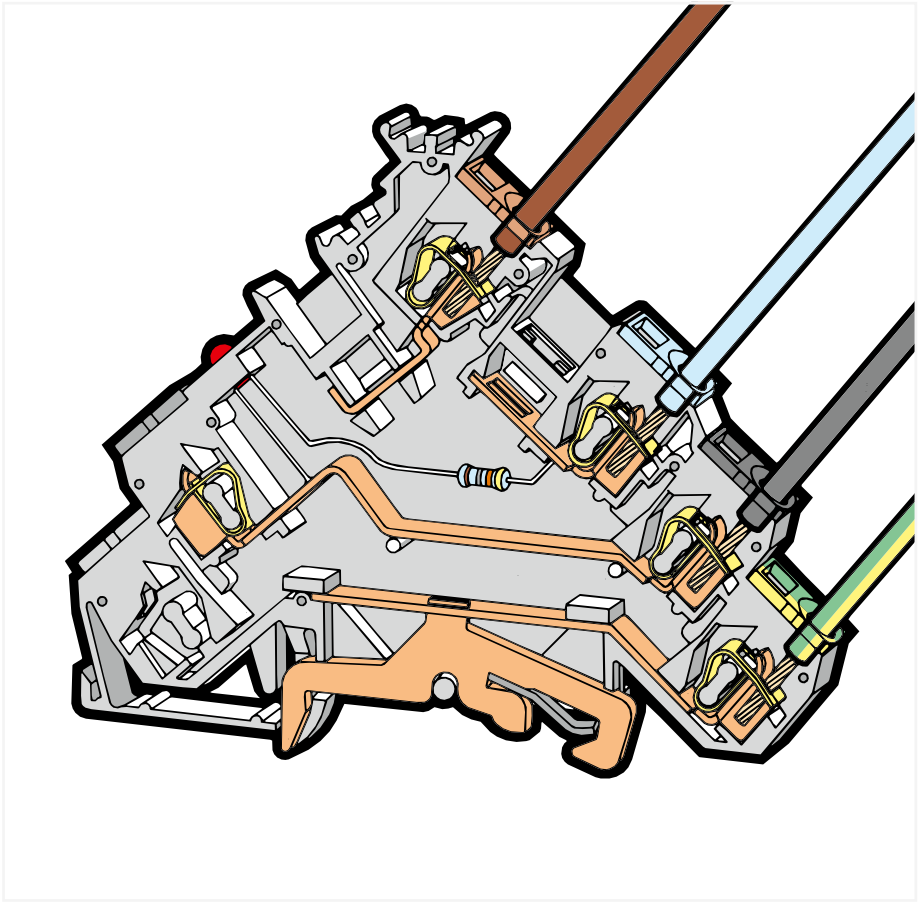
CAGE CLAMP® connection
Inserting a conductor via angled operating tool (210-658).



Labeling via WMB Multi Marking System.



Testing via banana plug and test plug adapter (209-170).





Testing via voltage tester directly on the current bar.



Actuator terminal blocks with fuse holders (281-511) – intermediate plates are required!



Actuator terminal block with thermocouple



Actuator terminal blocks with component plugs (280 801)



fine-stranded,
tip-bonded



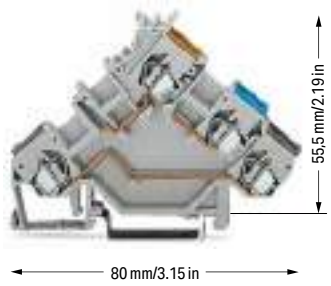
fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Sensor terminal block; for 3-conductor sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-560

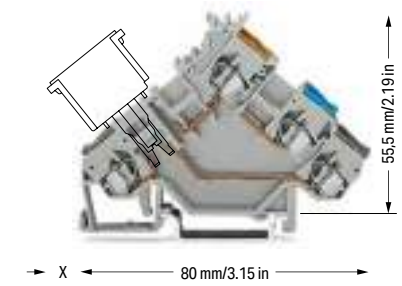


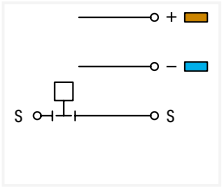
280-553



Sensor terminal block		
Color	Item No.	Pack. Unit
gray	280-560	50
gray	280-553	50

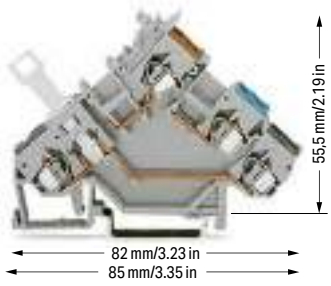
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	300 V, 6 A
I_N 6 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





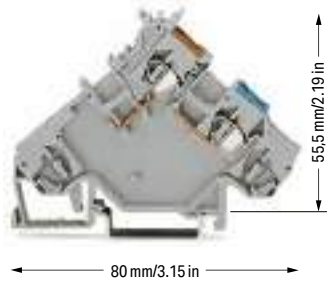
Sensor terminal block; for component plugs		
Color	Item No.	Pack. Unit
gray	280-561 ❸	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



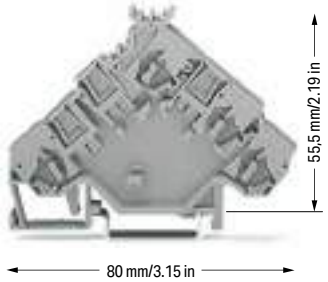


Sensor disconnect terminal block; for signal interruption		
Color	Item No.	Pack. Unit
gray	280-563	50

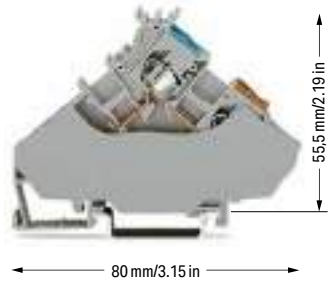




Sensor supply terminal block; power supply from sensor side		
Color	Item No.	Pack. Unit
gray	280-564	10



Spacer; same profile as 3-conductor sensor terminal blocks or corresponding actuator terminal blocks Spacers with the same profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.		
Color	Item No.	Pack. Unit
gray	280-559	50





Sensor supply terminal block; power supply from control panel side; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-567	20

Technical Data	
400 V / 6 kV / 3	I_N 20 A

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (280-850), see page 380
x = 20 mm/0.787 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Sensor terminal block paired with a 3-conductor sensor

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks



orange	**280-321**	100 (25)
gray	**280-319**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



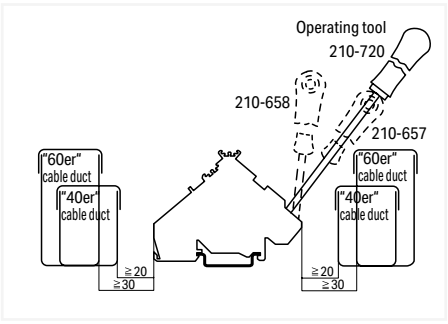
dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

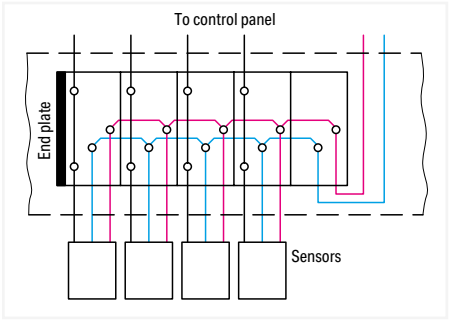


gray	**280-402**	200 (25)

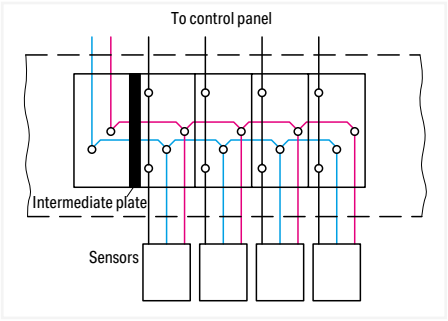




Min. mounting distance – terminal blocks to cable duct



Power supply from sensor side



Power supply from control panel side

CAGE CLAMP®

Sensor LED Terminal Block; for 3-Conductor Sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

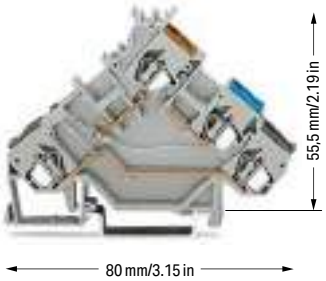
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

*12 AWG: THHN, THWN

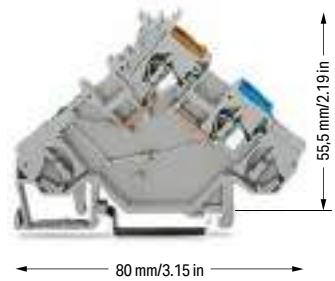
❶ Other voltages are available upon request.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

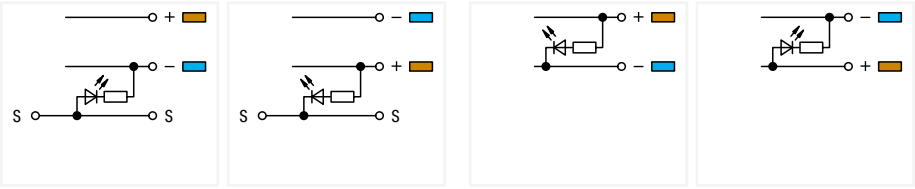
Approvals and corresponding ratings, visit www.wago.com



280-560/281-434 280-561/281-413



280-564/281-483 280-566/281-496





Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-560/281-434	50

Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-564/281-483	10

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA		
gray	280-561/281-413	50

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA		
gray	280-566/281-496	10

Accessories; 280 Series

Appropriate marking system: WMB

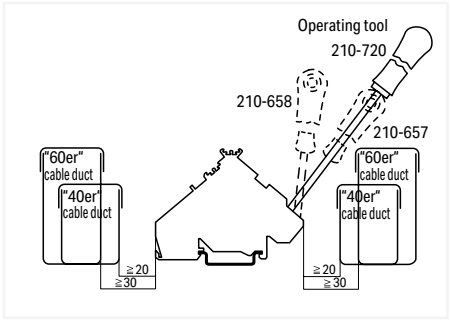
End and intermediate plate; 1 mm thick; for triple-deck terminal blocks			
	orange	280-321	100 (25)
	gray	280-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	280-402	200 (25)



Min. mounting distance – terminal blocks to cable duct

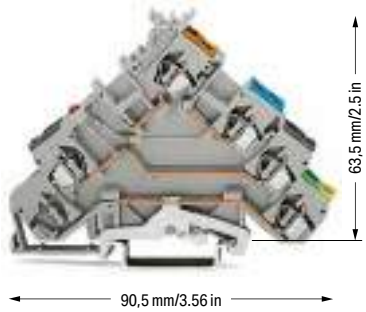


Sensor LED terminal block with a 3-conductor sensor

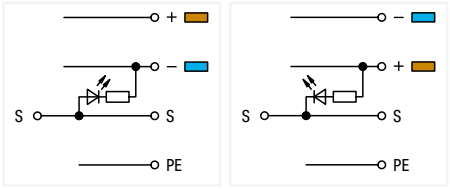
CAGE CLAMP®

Sensor LED Terminal Block; for 4-Conductor Sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-570/281-434 280-571/281-413



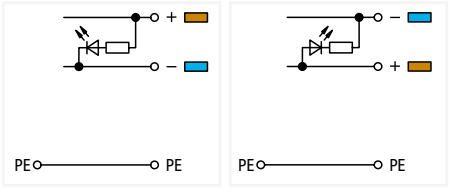
Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-570/281-434	50

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA		
gray	280-571/281-413	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-574/281-483 280-576/281-496



Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-574/281-483	10

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA		
gray	280-576/281-496	10

Sensor LED supply terminal block; power supply from control panel side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA Terminal block width: 6 mm / 0.236 inch		
gray	280-577/281-496	20

*12 AWG: THHN, THWN

❶ Other voltages are available upon request.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



6

Accessories; 280 Series

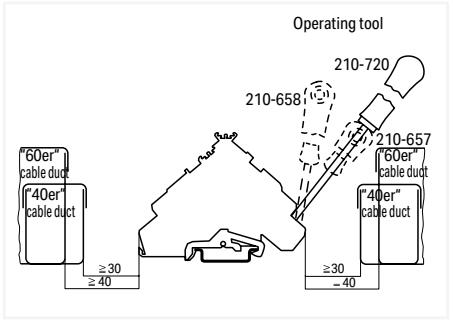
Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks			
	orange	280-323	100 (25)
	gray	280-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	280-472	200 (25)



Min. mounting distance – terminal blocks to cable duct

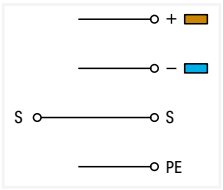


Sensor LED terminal block paired with a 3-conductor sensor (ground connection)

Sensor terminal block; with ground connection; for 3-conductor sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

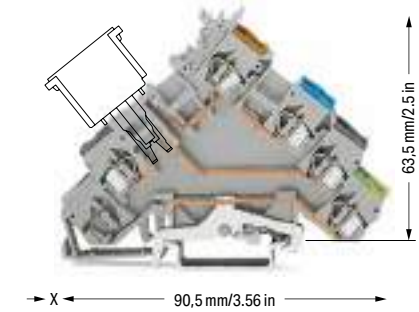


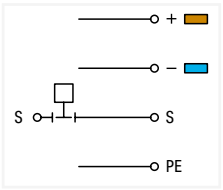


Sensor terminal block; with ground connection

Color	Item No.	Pack. Unit
gray	280-570	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	300 V, 6 A
I_N 6 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



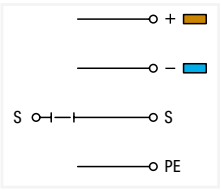


Sensor terminal block; with ground connection; for component plugs

Color	Item No.	Pack. Unit
gray	280-571 ❸	50

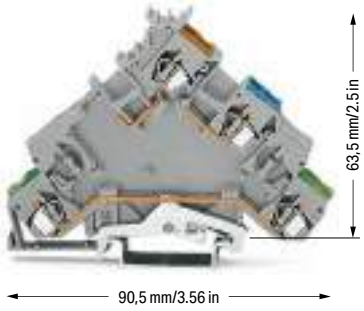
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

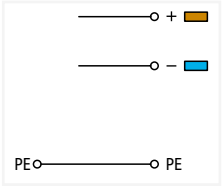




Sensor disconnect terminal block; with ground connection; for signal interruption

Color	Item No.	Pack. Unit
gray	280-573	50





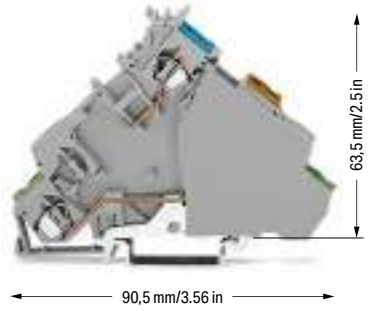
Sensor supply terminal block; with ground connection; power supply from sensor side

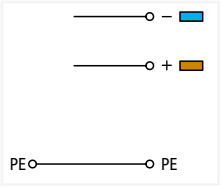
Color	Item No.	Pack. Unit
gray	280-574	10



Spacer; same profile as 4-conductor sensor terminal blocks; 3-conductor sensor terminal blocks with ground connection or corresponding actuator terminal blocks
Spacers with the same profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.

Color	Item No.	Pack. Unit
gray	280-582	50





Sensor supply terminal block; with ground connection; power supply from control panel side; with end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-577	20

Technical Data	
400 V / 6 kV / 3	I_N 20 A

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (280-850), see page 380
x = 20 mm/0.787 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Adjacent jumper; insulated; $I_N = I_N$ terminal block

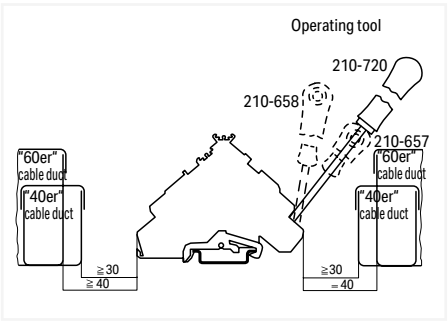


gray	280-402	200 (25)

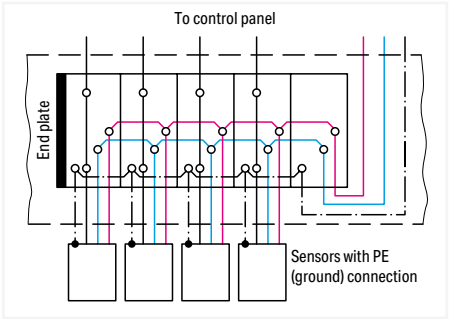


Sensor terminal block paired with a 3-conductor sensor

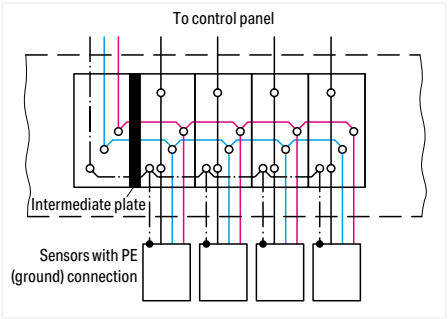




Min. mounting distance – terminal blocks to cable duct



Power supply from sensor side

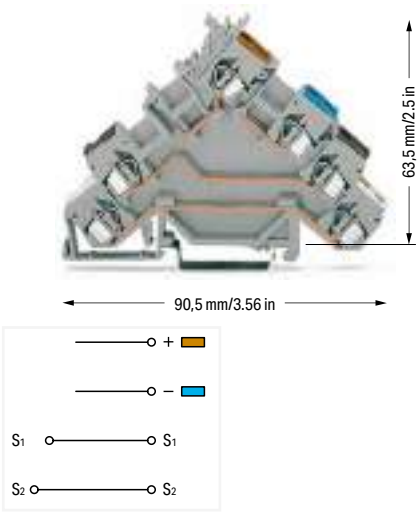


Power supply from control panel side

6

Sensor terminal block; for 4-conductor sensors
2.5 mm²; 280 Series

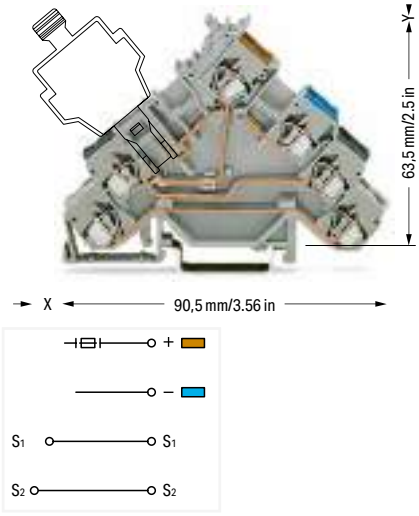
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Sensor terminal block

Color	Item No.	Pack. Unit
gray	280-580	50

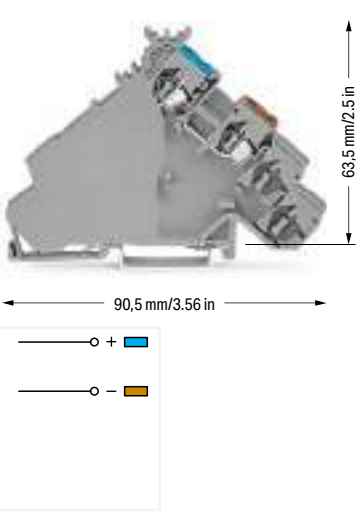
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
125 V / 5 A ❷	300 V, 6 A
250 V / 6.3 A ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; without end plate

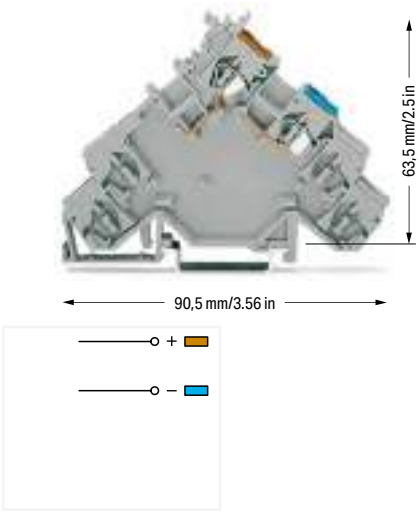
Color	Item No.	Pack. Unit
gray	280-588 ❸	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	24 V, 15 A
I_N 10 A	300 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



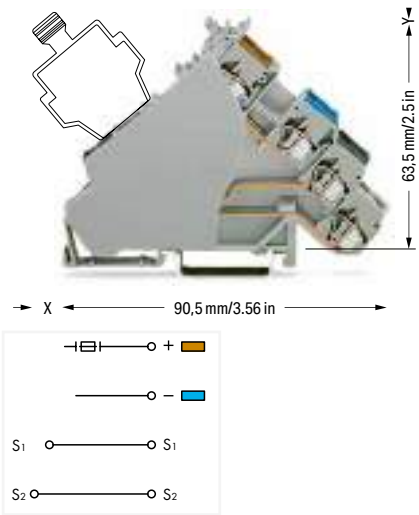
Sensor supply terminal block; power supply from control panel side; with end plate

Color	Item No.	Pack. Unit
gray	280-587	50



Sensor supply terminal block; power supply from sensor side; without end plate

Color	Item No.	Pack. Unit
gray	280-584	10



Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; with gray end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-588/280-320	50

Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; with orange end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-588/280-323	50

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 378
y = 15.5 mm/0.61 inch
x = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	**280-323**	100 (25)
gray	**280-320**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	**280-402**	200 (25)



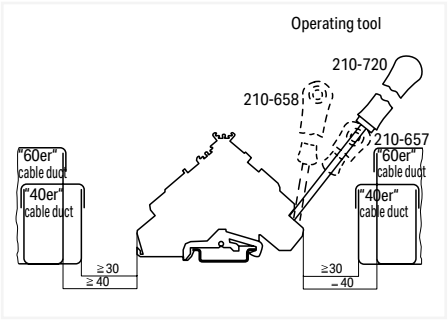
Sensor terminal block paired with a 4-conductor sensor



Sensor terminal block (with a fuse plug) paired with a 3-conductor sensor



The fuse plug is 1 mm wider than the terminal block, so an intermediate plate must be installed.



Min. mounting distance – terminal blocks to cable duct

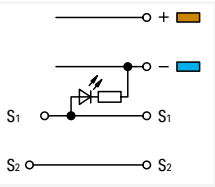
CAGE CLAMP®

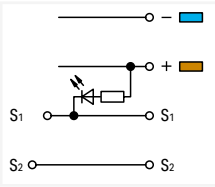
Sensor LED Terminal Block; for 4-Conductor Sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-580/281-434 280-581/281-413





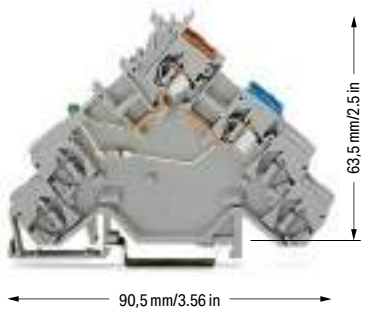
Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-580/281-434	50

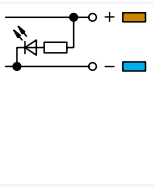
Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA

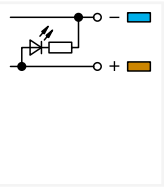
Color	Item No.	Pack. Unit
gray	280-581/281-413	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-584/281-483 280-586/281-496





Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-584/281-483	10

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-586/281-496	10

*12 AWG: THHN, THWN

❶ Other voltages are available upon request.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

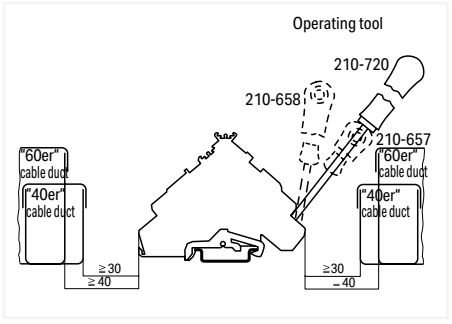


dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)



Min. mounting distance – terminal blocks to cable duct



Sensor LED terminal block paired with a 4-conductor sensor

CAGE CLAMP®

Actuator terminal block; for pressure and thermo switches
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

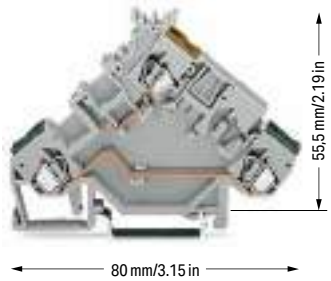
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

*12 AWG: THHN, THWN

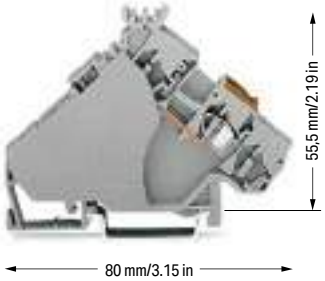
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

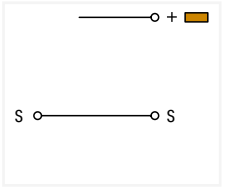
Approvals and corresponding ratings, visit www.wago.com

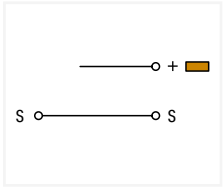


280-555



280-554

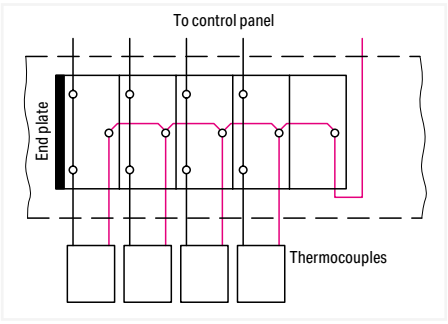




Actuator terminal block		
Color	Item No.	Pack. Unit
gray	280-555	50

Actuator supply terminal block; in connection with 280-555: power supply from control panel side; in connection with 280-554: power supply from actuator side; with end plate		
Color	Item No.	Pack. Unit
gray	280-556	20

Actuator terminal block		
gray	280-554	50



Power supply from actuator side

Accessories; 280 Series

Appropriate marking system: WMB

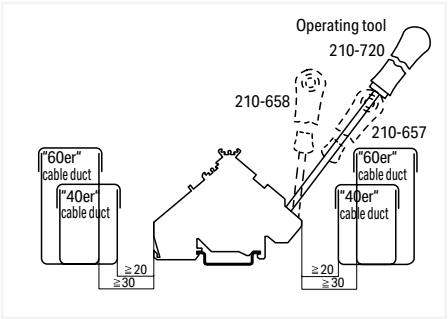
End and intermediate plate; 1 mm thick; for triple-deck terminal blocks			
	orange	280-321	100 (25)
	gray	280-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	280-402	200 (25)



Min. mounting distance – terminal blocks to cable duct

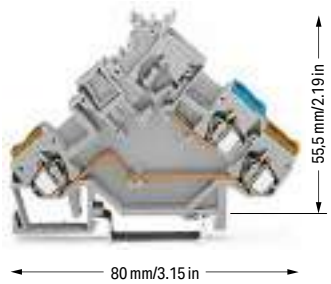


Actuator terminal block with thermocouple

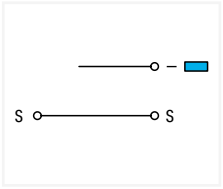
6

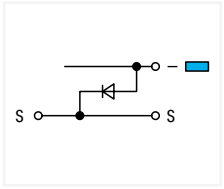
Actuator terminal block; for Magnetic Valves and Servo Motors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3; 20 A ❶ ❷	300 V, 15 A
250 V / 4 kV / 3; 20 A ❶ ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-562

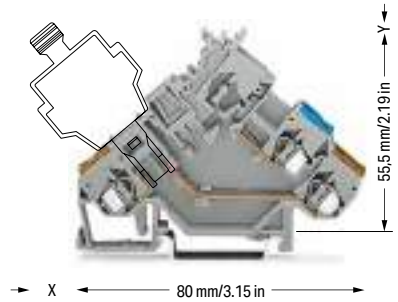


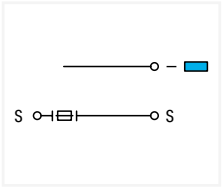


Actuator terminal block		
Color	Item No.	Pack. Unit
gray	280-562	50

Actuator terminal block; with 1N4007 recovery diode		
gray	280-562/281-411	50

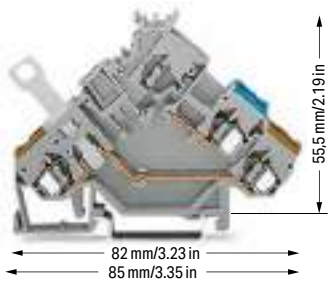
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
125 V / 5 A ❷	300 V, 6 A
250 V / 6.3 A ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

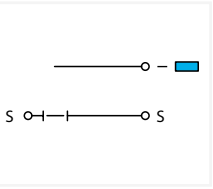




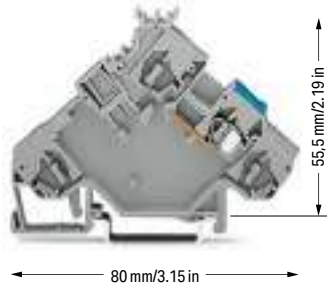
Actuator terminal block; for fuse plugs; for phase protection; without end plate		
Color	Item No.	Pack. Unit
gray	280-565 ❸	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

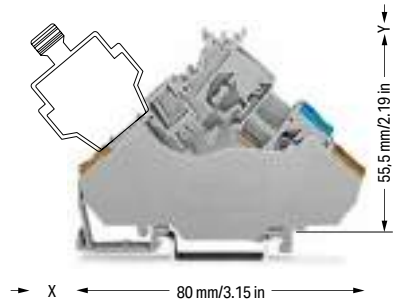


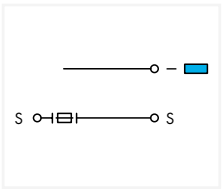


Actuator disconnect terminal block; for phase interruption		
Color	Item No.	Pack. Unit
gray	280-566	50



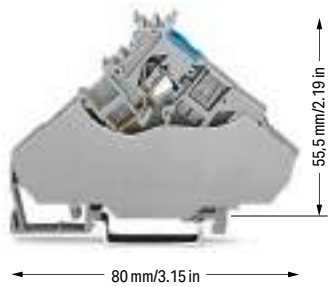
Actuator supply terminal block; power supply from actuator side		
Color	Item No.	Pack. Unit
gray	280-592	10





Actuator terminal block; for fuse plugs; for phase protection; with gray end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-565/281-319	50

Actuator terminal block; for fuse plugs; for phase protection; with orange end plate Terminal block width: 6 mm / 0.236 inch		
gray	280-565/281-321	50



Actuator supply terminal block; power supply from control panel side; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-568	20

Technical Data	
400 V / 6 kV / 3	I_N 20 A

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 378
y = 15.5 mm/0.61 inch
x = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Sensor terminal block paired with a 3-conductor sensor

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks



orange	**280-321**	100 (25)
gray	**280-319**	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



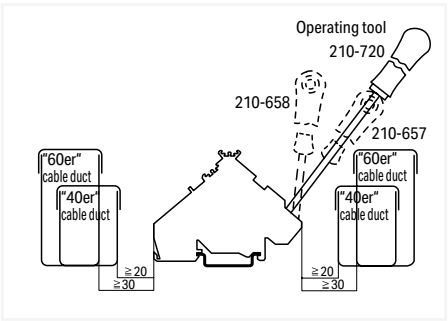
dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; $I_N = I_N$ terminal block



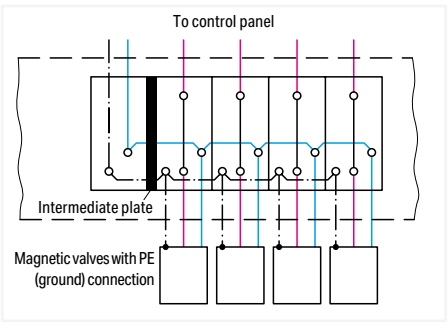
gray	**280-402**	200 (25)





Min. mounting distance – terminal blocks to cable duct





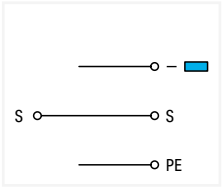
Power supply from control panel side

Actuator terminal block; with ground connection; for magnetic valves and servo motors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3; 20 A ❶ ❷	300 V, 15 A
250 V / 4 kV / 3; 20 A ❶ ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

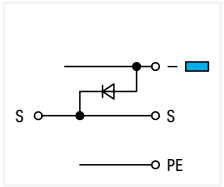


280-572



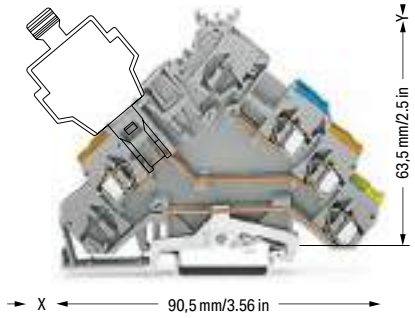
Actuator terminal block; with ground connection		
Color	Item No.	Pack. Unit
gray	280-572	50

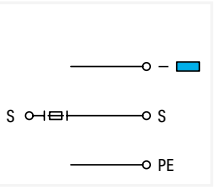
280-572/281-411



Actuator terminal block; with ground connection; with 1N4007 recovery diode		
gray	280-572/281-411	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
125 V / 5 A ❷	300 V, 6 A
250 V / 6.3 A ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

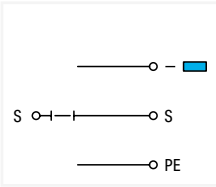




Actuator terminal block; with ground connection; for fuse plugs; for phase protection; without end plate		
Color	Item No.	Pack. Unit
gray	280-575 ❸	50

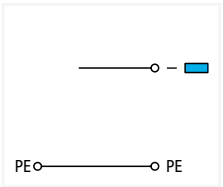
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



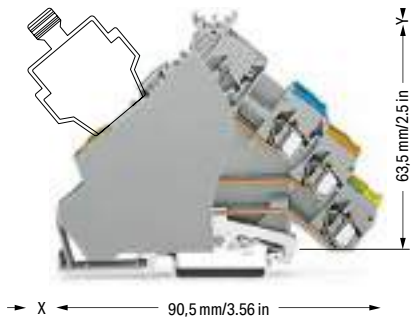


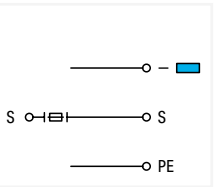
Actuator disconnect terminal block; with ground connection; for phase interruption		
Color	Item No.	Pack. Unit
gray	280-576	50





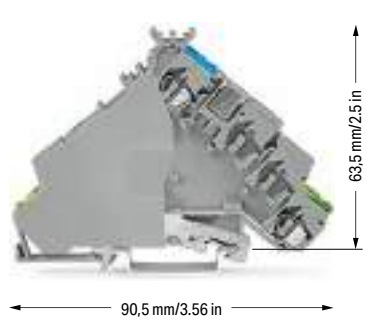
Actuator supply terminal block; with ground connection; power supply from actuator side		
Color	Item No.	Pack. Unit
gray	280-593	10

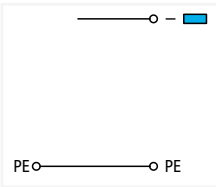




Actuator terminal block; with ground connection; for fuse plugs; for phase protection; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-575/281-320	50

Actuator terminal block; with ground connection; for fuse plugs; for phase protection; with orange end plate Terminal block width: 6 mm / 0.236 inch		
gray	280-575/281-323	50





Actuator supply terminal block; with ground connection; power supply from control panel side; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-578	20

Technical Data	
400 V / 6 kV / 3	I_N 20 A

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x =12 mm/0.472 inch
Fuse plug (281-511), see page 378
x = 15.5 mm/0.61 inch
y = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Actuator terminal block (ground connection) paired with a magnetic valve

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	**280-323**	100 (25)
gray	**280-320**	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



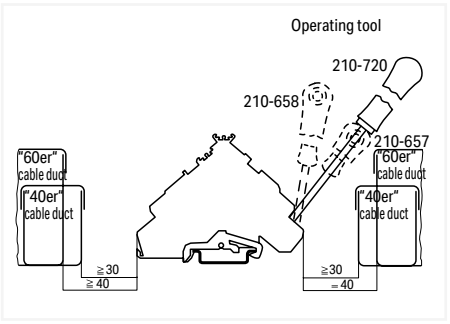
dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; $I_N = I_N$ terminal block



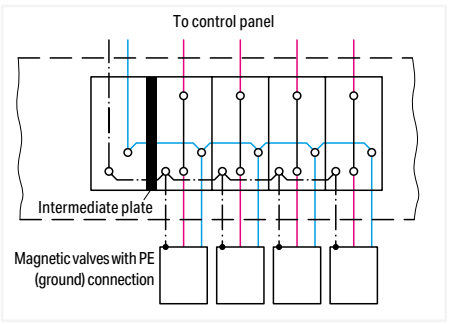
gray	**280-402**	200 (25)





Min. mounting distance – terminal blocks to cable duct





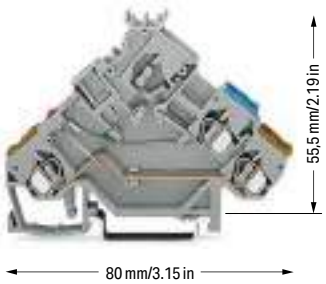
Power supply from control panel side

6

CAGE CLAMP®

Actuator LED Terminal Block; with Ground Connection
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-562/281-434 280-562/281-420

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



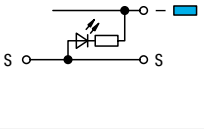
280-572/281-434 280-572/281-420

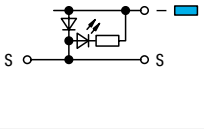
*12 AWG: THHN, THWN

❶ Other voltages are available upon request.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



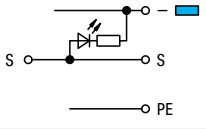


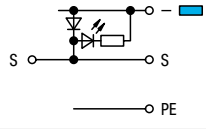
Actuator LED terminal block; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-562/281-434	50

Actuator LED terminal block; with 1N4007 recovery diode; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-562/281-420	50





Actuator LED terminal block; with ground connection; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-572/281-434	50

Actuator LED terminal block; with ground connection; with 1N4007 recovery diode; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-572/281-420	50



Accessories; item-specific

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks



orange	280-321	100 (25)
gray	280-319	100 (25)

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	280-323	100 (25)
gray	280-320	100 (25)

Accessories; 280 Series

Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

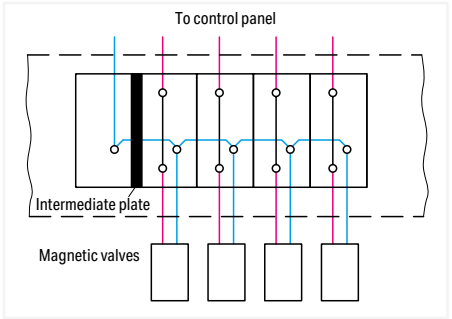


dark gray	280-472	200 (25)

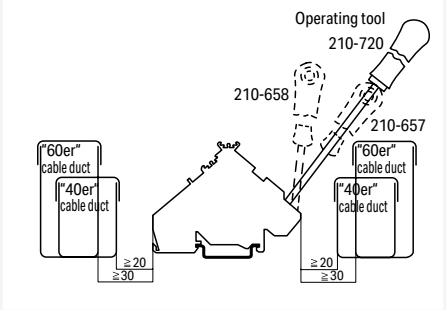
Adjacent jumper; insulated; I_N = I_N terminal block



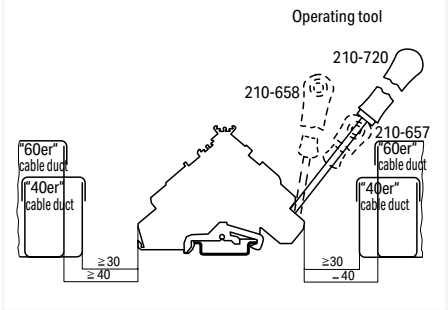
gray	280-402	200 (25)



Power supply from control panel side



Min. mounting distance – terminal blocks to cable duct



Min. mounting distance – terminal blocks to cable duct

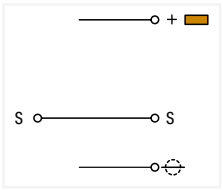
CAGE CLAMP®

Actuator Terminal Block for Actuators with Shield Connection and Actuators with Shield Conductor Through Contact (e.g., for Thermocouples)

2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





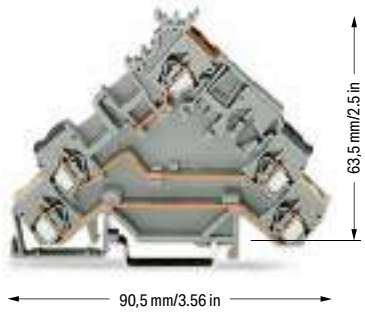
Actuator terminal block; with shield connection

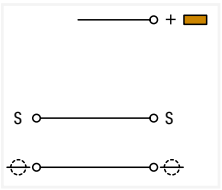
Color	Item No.	Pack. Unit
gray	280-585	50

Accessories; item-specific

see page 361

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V / 6 kV / 3 ❶	300 V, 15 A
I_N 20 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





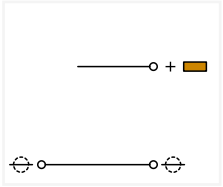
Actuator terminal block; with shield conductor through contact

Color	Item No.	Pack. Unit
gray	280-583	50

Accessories; item-specific

see page 361





Actuator supply terminal block; with shield connection; power supply from control panel side; with end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-586	10

Accessories; item-specific

see page 361



Actuator supply terminal block; power supply from control panel side; with end plate; for actuators with shield conductor through contact
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-515	50

Accessories; item-specific

see page 361

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, see page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



Power supply from control panel side

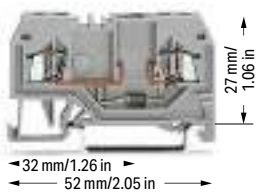


Power supply from control panel side

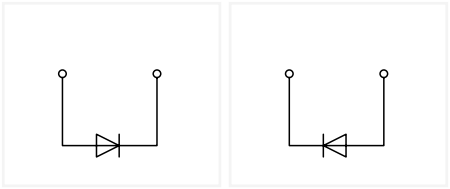
6

Diode Terminal Block and LED Terminal Block
1.5 mm²; 279 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



279-915/281-410 279-915/281-411

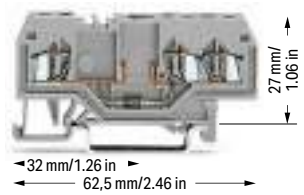


2-conductor diode terminal block; with 1N4007 diode; gray

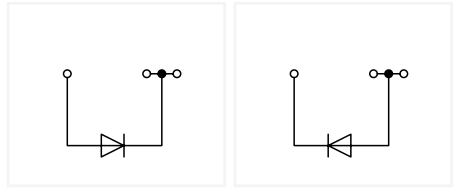
	Item No.	Pack. Unit
anode left	279-915/281-410	100
anode right	279-915/281-411	100

Other terminal blocks with the same profile:		
Through	279-901	Page 312

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



279-673/281-410 279-673/281-411

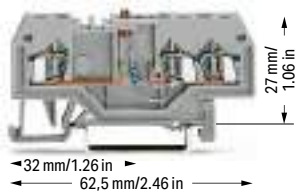


3-conductor diode terminal block; with 1N4007 diode; gray

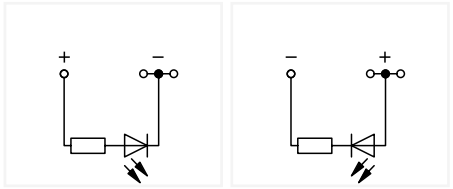
	Item No.	Pack. Unit
anode left	279-673/281-410	100
anode right	279-673/281-411	100

Other terminal blocks with the same profile:		
Through	279-681	Page 312

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



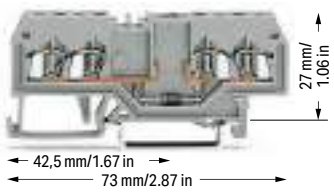
279-674/281-434 279-674/281-413



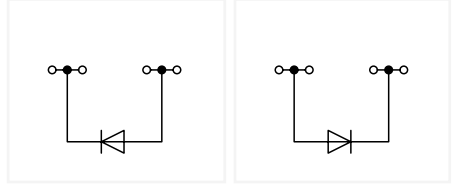
3-conductor LED terminal block; with red LED; gray

	Item No.	Pack. Unit
anode left	279-674/281-434	100
anode right	279-674/281-413	100

Other terminal blocks with the same profile:		
Through	279-681	Page 312



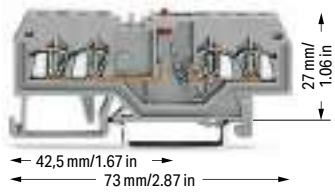
279-815/281-411 279-815/281-410



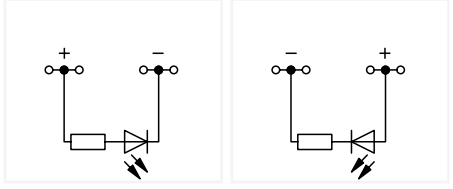
4-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
anode right	279-815/281-411	100
anode left	279-815/281-410	100

Other terminal blocks with the same profile:		
Through	279-831	Page 312



279-809/281-434 279-809/281-413



4-conductor LED terminal block; with red LED; gray

	Item No.	Pack. Unit
anode left	279-809/281-434	100
anode right	279-809/281-413	100

Other terminal blocks with the same profile:		
Through	279-831	Page 312

CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 279 Series

Appropriate marking system:
WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**279-470**	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip



dark gray	**279-471**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**279-482**	200 (25)
3-way	**279-483**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	**279-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**279-492**	200 (25)

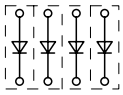
Operating tool; insulated

2-way	**279-432**	1
3-way	**279-433**	1

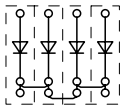
Operating tool; insulated



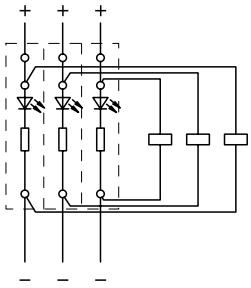
10-way	**279-440**	1



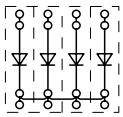
Open diode gates can be created using the following terminal blocks:
279-915/281-410 or 279-915/281-411



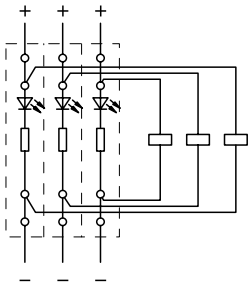
Polarized diode gates with a common cathode can be created using the following terminal blocks:
279-673/281-410 or 279-673/281-411



Circuit-related voltage indications can be created using the following terminal blocks:
279-674/281-434 or 279-674/281-413



Polarized diode gates with a common cathode can be created using the following terminal blocks:
279-815/281-410 or 279-815/281-411

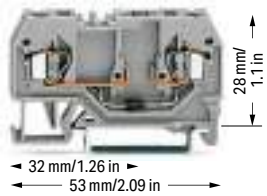


Circuit-related voltage indications can be created using the following terminal blocks:
279-809/281-434 or 279-809/281-413

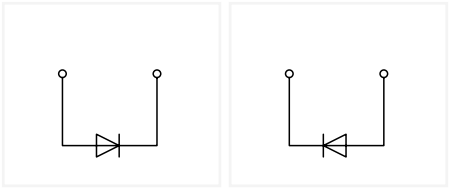
6

Diode Terminal Block and LED Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-915/281-410 280-915/281-411

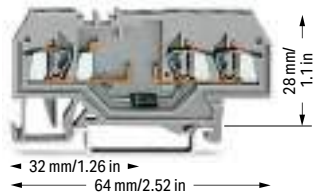


2-conductor diode terminal block; with 1N4007 diode; gray

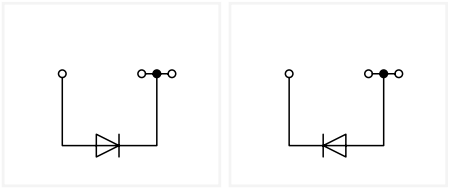
	Item No.	Pack. Unit
anode left	280-915/281-410	100
anode right	280-915/281-411	100

Other terminal blocks with the same profile:		
Through	280-901	Page 314

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-673/281-410 280-673/281-411

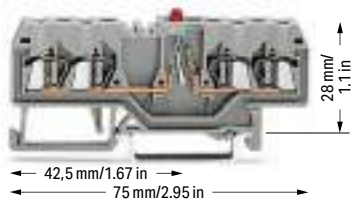


3-conductor diode terminal block; with 1N4007 diode; gray

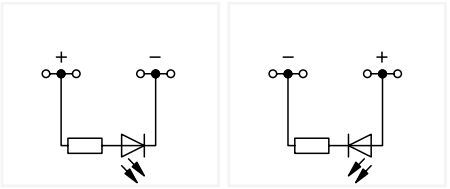
	Item No.	Pack. Unit
anode left	280-673/281-410	100
anode right	280-673/281-411	100

Other terminal blocks with the same profile:		
Through	280-681	Page 314

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



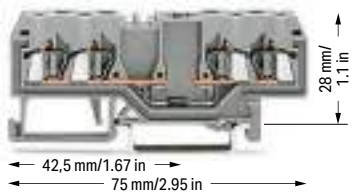
280-809/281-434 280-809/281-413



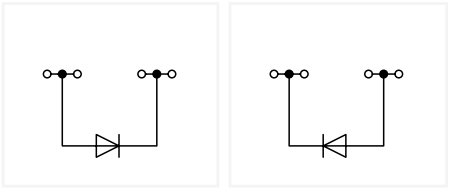
4-conductor LED terminal block; with red LED; gray

	Item No.	Pack. Unit
anode left	280-809/281-434	100
anode right	280-809/281-413	100

Other terminal blocks with the same profile:		
Through	280-833	Page 314



280-815/281-410 280-815/281-411



4-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
anode left	280-815/281-410	100
anode right	280-815/281-411	100

Other terminal blocks with the same profile:		
Through	280-833	Page 314

CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	**280-472**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**280-482**	200 (25)
3-way	**280-483**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	**280-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**280-492**	200 (25)

Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1

Operating tool; insulated



10-way	**280-440**	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

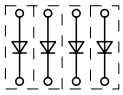


black	**210-103**	5

Wire commoning chain; insulated; 50 connections; I_N 8 A



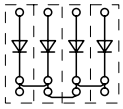
blue	**210-123**	5



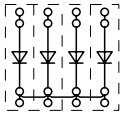
Open diode gates can be created using the following terminal blocks:
280-915/281-410 or 280-915/281-411



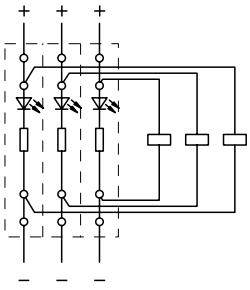
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with a common cathode can be created using the following terminal blocks:
280-673/281-410 or 280-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
280-815/281-410 or 280-815/281-411

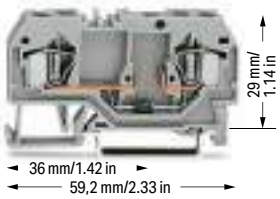


Circuit-related voltage indications can be created using the following terminal blocks:
280-809/281-434 or 280-809/281-413

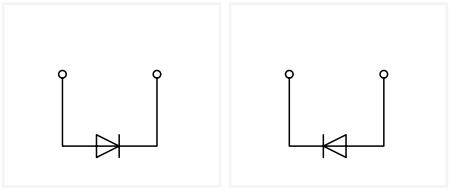
6

Diode Terminal Block
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-915/281-410 281-915/281-411



2-conductor diode terminal block; with 1N4007 diode; 0.5 A continuous current; gray

	Item No.	Pack. Unit
anode left	281-915/281-410	50
anode right	281-915/281-411	50

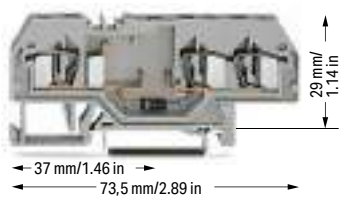
2-conductor diode terminal block; with 1N5408 diode; 1.5 A continuous current; gray

anode left	281-915/281-400	50
anode right	281-915/281-401	50

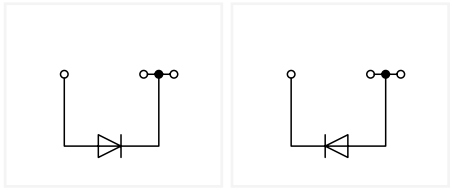
Other terminal blocks with the same profile:

Through	281-901	Page 318

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-673/281-410 281-673/281-411



3-conductor diode terminal block; with 1N4007 diode; 0.5 A continuous current; gray

	Item No.	Pack. Unit
anode left	281-673/281-410	50
anode right	281-673/281-411	50

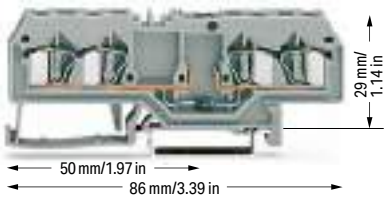
3-conductor diode terminal block; with 1N5408 diode; 1.5 A continuous current; gray

anode left	281-673/281-400	50
anode right	281-673/281-401	50

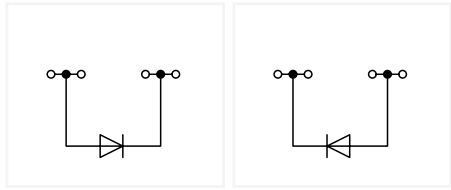
Other terminal blocks with the same profile:

Through	281-681	Page 318

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-665/281-410 281-665/281-410



4-conductor diode terminal block; with 1N4007 diode; 0.5 A continuous current; gray

	Item No.	Pack. Unit
anode left	281-665/281-410	50
anode right	281-665/281-411	50

4-conductor diode terminal block; with 1N5408 diode; 1.5 A continuous current; gray

anode left	281-665/281-400	50
anode right	281-665/281-401	50

Other terminal blocks with the same profile:

Through	280-652	Page 318

CAGE CLAMP®

Diode Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 281 Series

Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**281-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**281-471**	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip



dark gray	**281-472**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**281-482**	100 (25)
3-way	**281-483**	100 (25)
5-way	**281-485**	100 (25)
10-way	**281-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	**281-492**	100 (25)

Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1
5-way	**281-440**	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

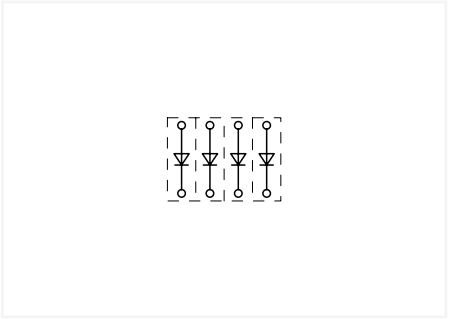


black	**210-103**	5

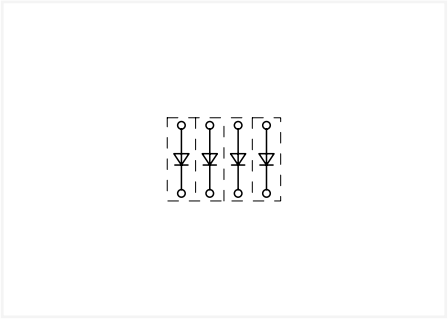
Wire commoning chain; insulated; 50 connections; I_N 8 A



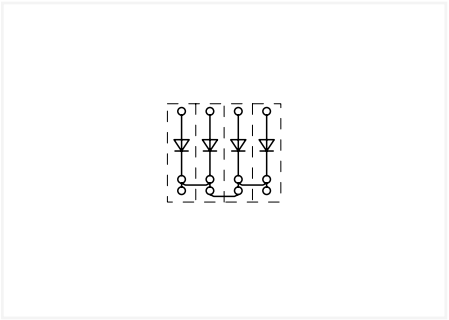
blue	**210-123**	5



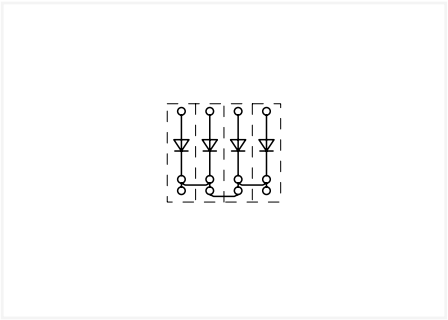
Open diode gates can be created using the following terminal blocks:
281-915/281-410 or 281-915/281-411



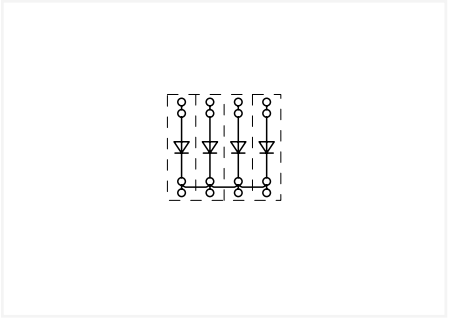
Open diode gates can be created using the following terminal blocks:
281-915/281-400 or 281-915/281-401



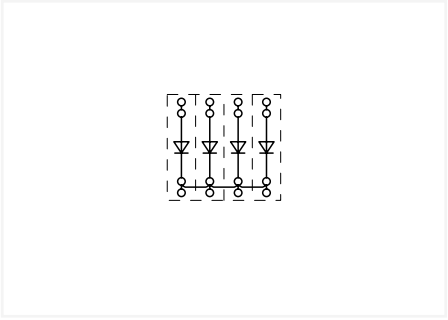
Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-673/281-410 or 281-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-673/281-400 or 281-673/281-401



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-665/281-410 or 281-665/281-411

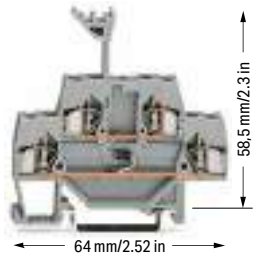


Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-665/281-400 or 281-665/281-401

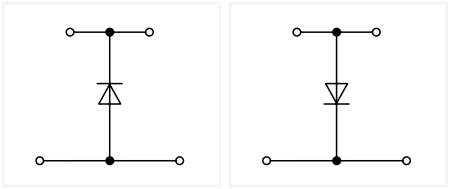
6

Double-Deck Diode Terminal Block and LED Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

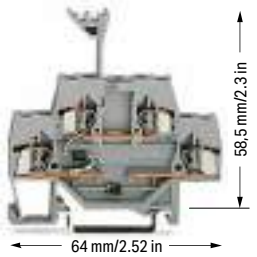


280-940/281-410 280-940/281-411

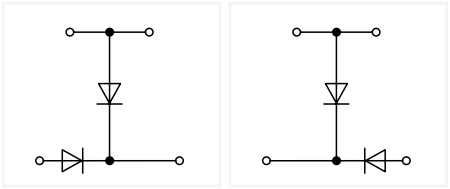


Double-deck diode terminal block; with 1N4007 diode; gray		
	Item No.	Pack. Unit
○ anode bottom	280-940/281-410	50
○ anode top	280-940/281-411	50

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-941/281-492 280-941/281-491

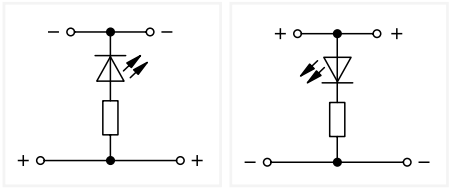


Double-deck diode terminal block; with two 1N4007 diodes; gray		
	Item No.	Pack. Unit
○ anode top, anode left	280-941/281-492	50
○ anode top, anode right	280-941/281-491	50

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-943/281-434 280-943/281-413

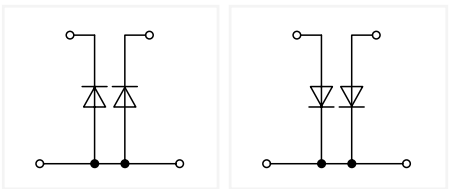


Double-deck LED terminal block; with red LED; gray		
	Item No.	Pack. Unit
○ anode bottom	280-943/281-434	50
○ anode top	280-943/281-413	50

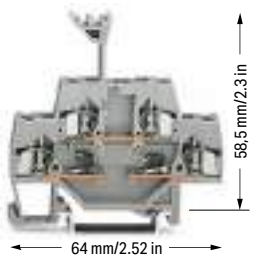
Other terminal blocks with the same profile:		
Through	280-519	Page 292



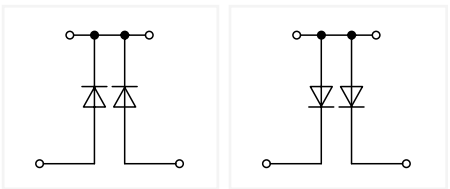
280-942/281-487 280-942/281-488



Double-deck diode terminal block; with two 1N4007 diodes; gray		
	Item No.	Pack. Unit
○ anodes bottom	280-942/281-487	50
○ anodes top	280-942/281-488	50



280-941/281-489 280-941/281-490



Double-deck diode terminal block; with two 1N4007 diodes; gray		
	Item No.	Pack. Unit
○ anodes bottom	280-941/281-489	50
○ anodes top	280-941/281-490	50

CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 2.5 mm thick



orange	280-341	100 (25)
gray	280-340	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated



10-way	280-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

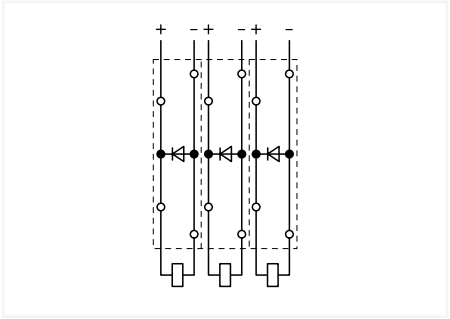


black	210-103	5

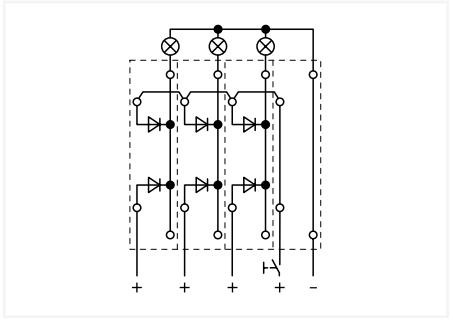
Wire commoning chain; insulated; 50 connections; I_N 8 A



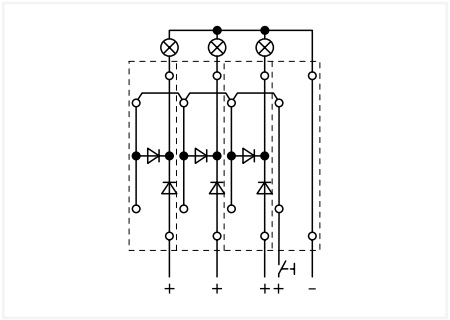
blue	210-123	5



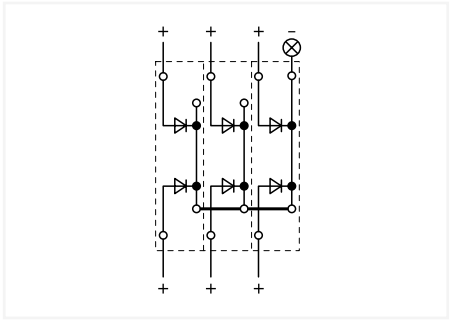
Recovery diodes can be created using the following terminal blocks:
280-940/281-410 or 280-940/281-411



Lamp test circuits can be created using the following terminal blocks:
280-942/281-487 or 280-942/281-488

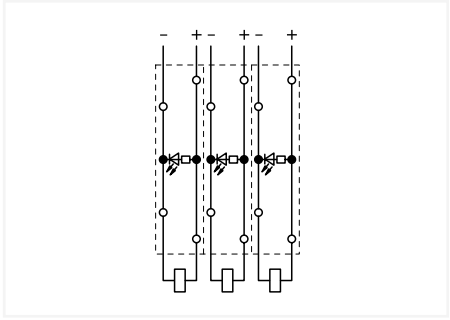


Lamp test circuits can be created using the following terminal blocks:
280-941/281-492 or 280-941/281-491



Collective fault signals can be created using the following terminal blocks:
280-941/281-489 or 280-941/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.
These terminal blocks provide high-density wiring in a width of just 5 mm.

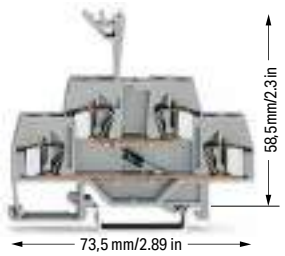


Circuit-related voltage indications can be created using the following terminal blocks:
280-943/281-434 or 280-943/281-413

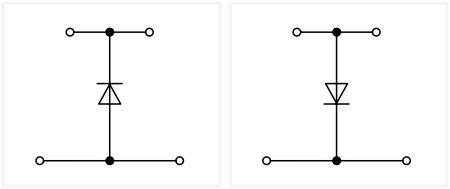
6

Double-Deck Diode Terminal Block and LED Terminal Block
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



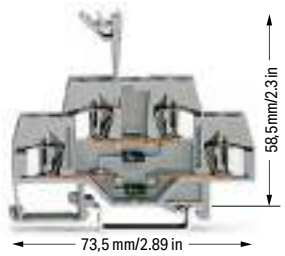
281-633/281-410 281-633/281-411



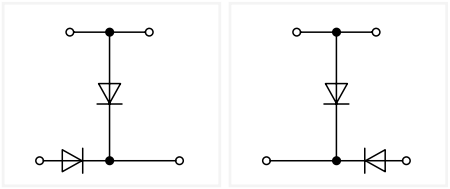
Double-deck diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode bottom	281-633/281-410	50
○ anode top	281-633/281-411	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



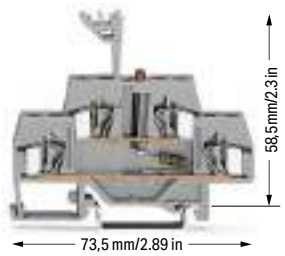
281-635/281-492 281-635/281-491



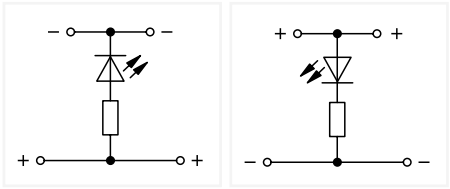
Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anode top, anode left	281-635/281-492	50
○ anode top, anode right	281-635/281-491	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-634/281-434 281-634/281-413

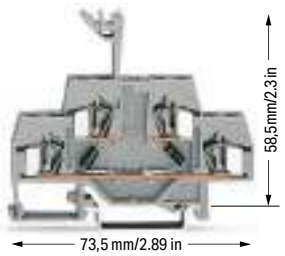


Double-deck LED terminal block; with red LED; gray

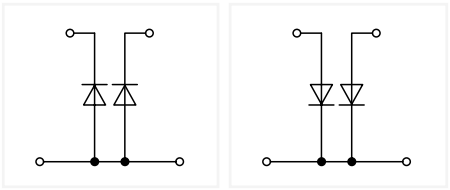
	Item No.	Pack. Unit
○ anode bottom	281-634/281-434	50
○ anode top	281-634/281-413	50

Other terminal blocks with the same profile:

Through	281-619	Page 296

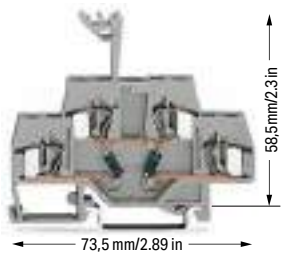


281-636/281-487 281-636/281-488

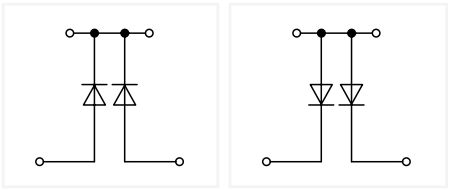


Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anodes bottom	281-636/281-487	50
○ anodes top	281-636/281-488	50



281-635/281-489 281-635/281-490



Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anodes bottom	281-635/281-489	50
○ anodes top	281-635/281-490	50

CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 2.5 mm thick



orange	281-341	100 (25)
gray	281-340	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip



dark gray	281-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

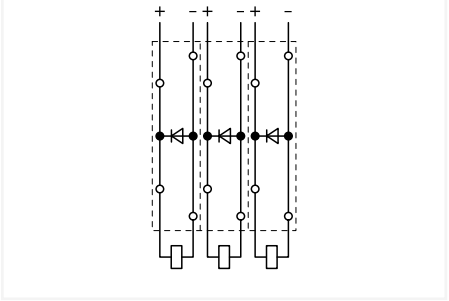


black	210-103	5

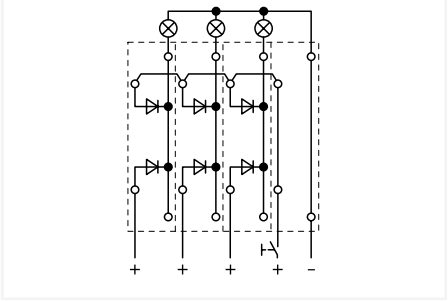
Wire commoning chain; insulated; 50 connections; I_N 8 A



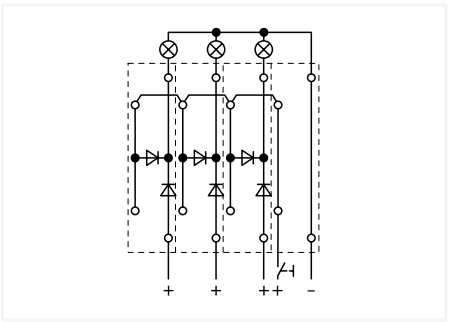
blue	210-123	5



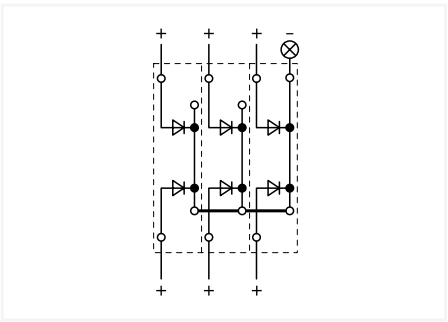
Recovery diodes can be created using the following terminal blocks:
281-633/281-410 or 281-633/281-411



Lamp test circuits can be created using the following terminal blocks:
281-636/281-487 or 281-636/281-488

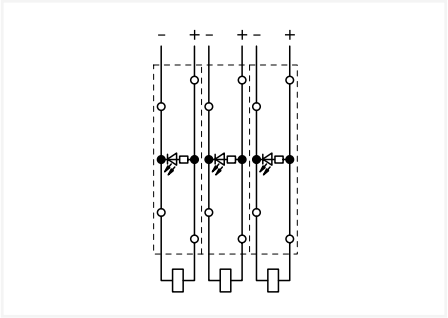


Lamp test circuits can be created using the following terminal blocks:
281-635/281-492 or 281-635/281-491



Collective fault signals can be created using the following terminal blocks:
281-635/281-489 or 281-635/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.
These terminal blocks provide high-density wiring in a width of just 6 mm.



Circuit-related voltage indications can be created using the following terminal blocks:
281-634/281-434 or 281-634/281-413

6

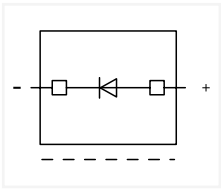
Pluggable Diode Module on Carrier Terminal Block 2.5 mm²
280 Series

Technical Data

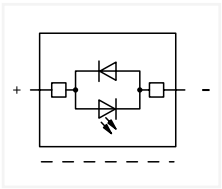
U_N 250 V; U_{RM} 1000 V
I_N 0.5 A
Plug width: 5 mm / 0.197 inch



280-801/281-411



280-801/281-420



Diode module; with 1N4007 diode; 5 mm wide; gray

	Item No.	Pack. Unit
○ anode right	**280-801/281-411**	100

Diode module; with 1N4007 recovery diode; red LED; 5 mm wide; gray

○ 24 VDC	**280-801/281-420**	100
○ 48 VDC	**280-801/281-421**	100

Accessories; Carrier Terminal Blocks

Appropriate marking system: WMB

2-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray **280-916** 100

End and intermediate plate; 2.5 mm thick



orange **280-309** 100 (25)
gray **280-308** 100 (25)

3-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray **280-610** 100

End and intermediate plate; 2.5 mm thick



orange **280-326** 100 (25)
gray **280-324** 100 (25)

4-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray **280-816** 100

End and intermediate plate; 2.5 mm thick



orange **280-315** 100 (25)
gray **280-314** 100 (25)

*12 AWG: THHN, THWN

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white **280-470** 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray **280-471** 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray **280-472** 200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way **280-482** 200 (25)
3-way **280-483** 200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way **280-490** 50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way **280-492** 200 (25)

Operating tool; insulated

2-way **280-432** 1
3-way **280-433** 1

Operating tool; insulated



10-way **280-440** 1

Wire commoning chain; insulated; 50 connections; I_N 8 A

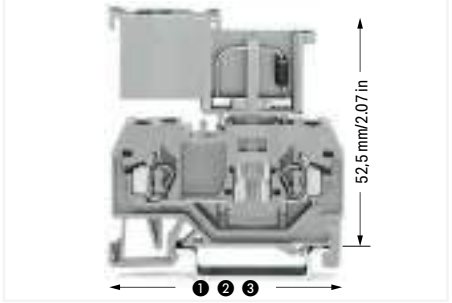


black **210-103** 5

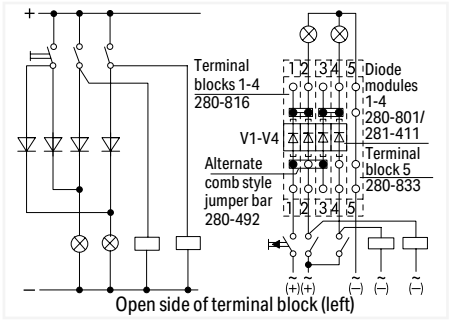
Wire commoning chain; insulated; 50 connections; I_N 8 A



blue **210-123** 5

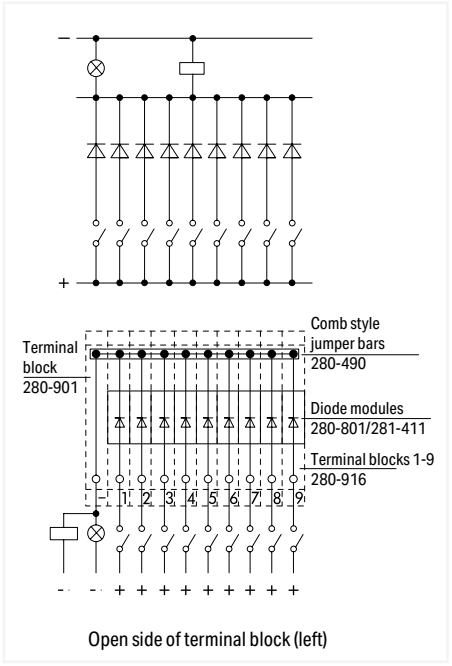


Lengths of carrier terminal blocks with a pluggable diode module:
❶ 53 mm / 2.09 inch for 280-916
❷ 64 mm / 2.52 inch for 280-610
❸ 75 mm / 2.95 inch for 280-816



Lamp test circuit with blocking diodes

These diode modules are ideal for custom diode circuits (e.g., lamp test and collective fault signal circuits) and offer the following advantages:
- Separation into functional and wiring levels
- Polarized switching direction
- Quick and easy module replacement
- Terminal blocks/modules provide high-density wiring in a width of just 5 mm



Diode gate for collective fault indication

CAGE CLAMP®

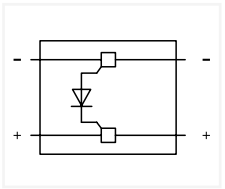
Pluggable Diode Module on Through Terminal Block 2.5 mm²
280 Series

Technical Data

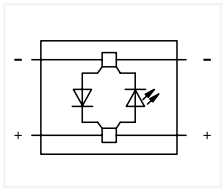
U_N 250 V; U_{RM} 1000 V
I_N 0.5 A
Plug width: 10 mm / 0.394 inch



280-803/281-411



280-803/281-420



Diode module; with 1N4007 diode; 10 mm wide; gray

	Item No.	Pack. Unit
◯ anode right	280-803/281-411	50

Diode module; with 1N4007 recovery diode; red LED; 10 mm wide; gray

◯ 24 VDC	280-803/281-420	50

Accessories; Through Terminal Blocks

Appropriate marking system:
WMB

2-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray | 280-901 | 100

End and intermediate plate; 2.5 mm thick



orange | 280-309 | 100 (25)
gray | 280-308 | 100 (25)

3-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray | 280-681 | 100

End and intermediate plate; 2.5 mm thick



orange | 280-326 | 100 (25)
gray | 280-324 | 100 (25)

4-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray | 280-833 | 100

End and intermediate plate; 2.5 mm thick



orange | 280-315 | 100 (25)
gray | 280-314 | 100 (25)

*12 AWG: THHN, THWN

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

2-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch



gray | 280-101 | 100

End and intermediate plate; 2.5 mm thick



orange | 280-302 | 100 (25)
gray | 280-301 | 100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white | 280-470 | 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray | 280-471 | 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray | 280-472 | 200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray | 280-402 | 200 (25)

Wire commoning chain; insulated; 50 connections; I_N 8 A

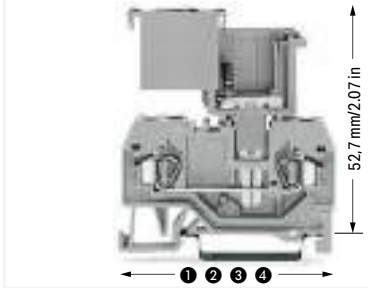


black | 210-103 | 5

Wire commoning chain; insulated; 50 connections; I_N 8 A



blue | 210-123 | 5

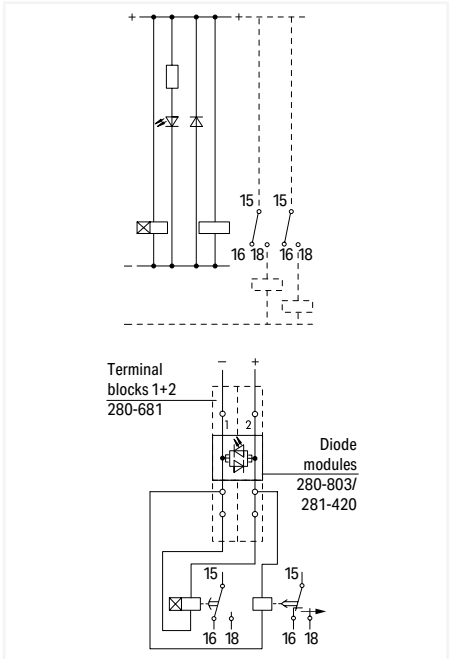


Lengths of through terminal blocks with a pluggable diode module:
1. 53 mm / 2.09 inch for 280-901
2. 64 mm / 2.52 inch for 280-681
3. 75 mm / 2.95 inch for 280-833
4. 45.5 mm / 1.67 inch for 280-101



Similar to push-in type jumpers, these diode modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:

- Compatibility with all 280 Series Through Terminal Blocks
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units



Free-wheeling diode and voltage check

6

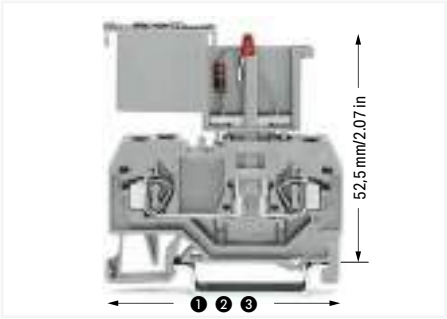
CAGE CLAMP®

Pluggable LED and Neon Indicator Module on Carrier Terminal Block 2.5 mm²
280 Series

Technical Data

Plug width: 5 mm / 0.197 inch





Lengths of carrier terminal blocks with a pluggable diode module:
1. 53 mm / 2.09 inch for 280-916
2. 64 mm / 2.52 inch for 280-610
3. 75 mm / 2.95 inch for 280-816

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray		
	Item No.	Pack. Unit
24 VDC	280-801/281-413	100
48 VDC	280-801/281-414	100

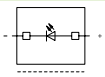
LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray		
24 VAC/DC	280-801/281-415	100
48 VAC/VDC	280-801/281-416	100

Neon indicator module; 5 mm wide; I_N 0.5 mA; gray		
120 VAC/VDC	280-801/281-418	100
230 VAC/VDC	280-801/281-417	100

Carrier terminal blocks, see page 374

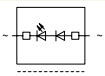
Circuit Diagrams

LED module



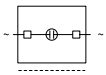
24 VDC	280-801/281-413
48 VDC	280-801/281-414

LED module



24 VAC/DC	280-801/281-415
48 VAC/VDC	280-801/281-416

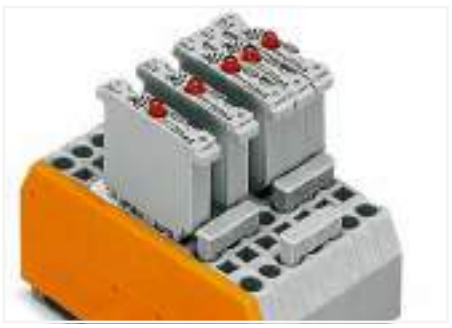
Neon indicator module



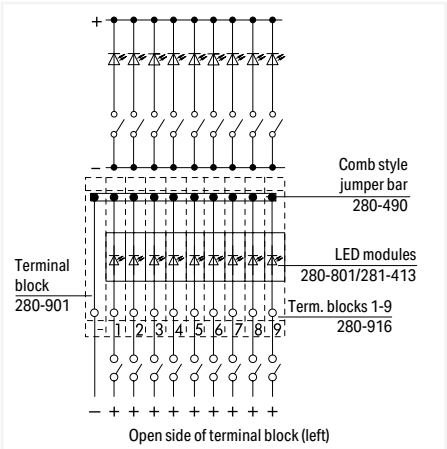
120 VAC/VDC	280-801/281-418
230 VAC/VDC	280-801/281-417



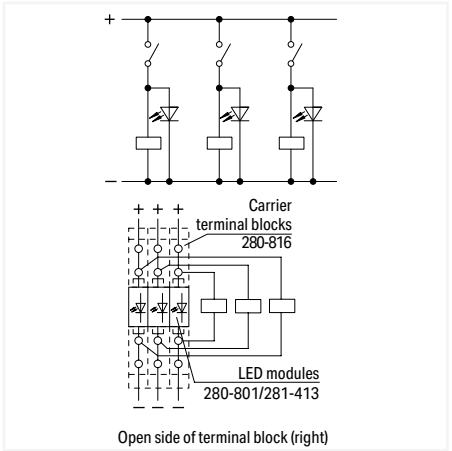
The monitoring of control and operating current circuits with LED modules on rail-mount terminal blocks provides several advantages:
- No additional cost for assembly and wiring
- Separation into functional and wiring levels
- Modules can be replaced quickly by other types of modules
- Polarized switching direction
- Terminal blocks/modules provide high-density wiring in a width of just 5 mm



Carrier terminal blocks with component plugs, alternate comb-style jumper bars, 3-way, comb-style jumper bar



LED gate for collective fault indication – individual display



Voltage control assigned to current circuits

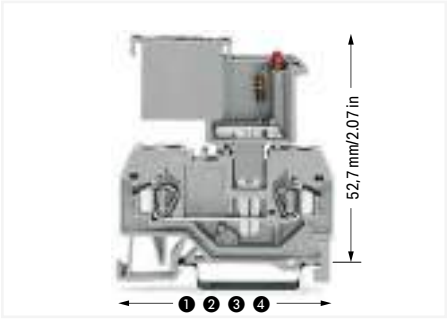
CAGE CLAMP®

Pluggable LED and Neon Indicator Module on Through Terminal Block 2.5 mm²
280 Series

Technical Data

Plug width: 10 mm / 0.394 inch





Lengths of through terminal blocks with a pluggable diode module:
1. 53 mm / 2.09 inch for 280-901
2. 64 mm / 2.52 inch for 280-681
3. 75 mm / 2.95 inch for 280-833
4. 45.5 mm / 1.67 inch for 280-101

LED module; with red LED; 10 mm wide; I_N 5.6 mA; I_F 25 mA; gray	Item No.	Pack. Unit
24 VDC	280-803/281-413	100
48 VDC	280-803/281-414	100

LED module; with red LED; 10 mm wide; I_N 5.6 mA; I_F 25 mA; gray		
24 VAC/DC	280-803/281-415	100
48 VAC/VDC	280-803/281-416	100

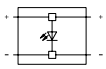
Neon indicator module; 10 mm wide; I_N 0.5 mA; gray		
120 VAC/VDC	280-803/281-418	100
230 VAC/VDC	280-803/281-417	100

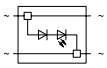
Through terminal blocks, see page 375

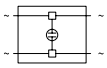


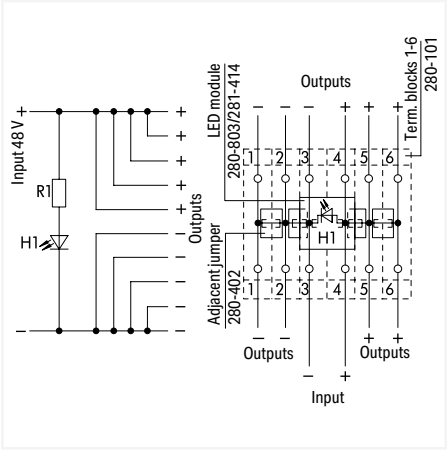
Similar to push-in type jumpers, these LED and neon indicator modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:
- Compatibility with all 280 Series Through Terminal Blocks
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units

Circuit Diagrams

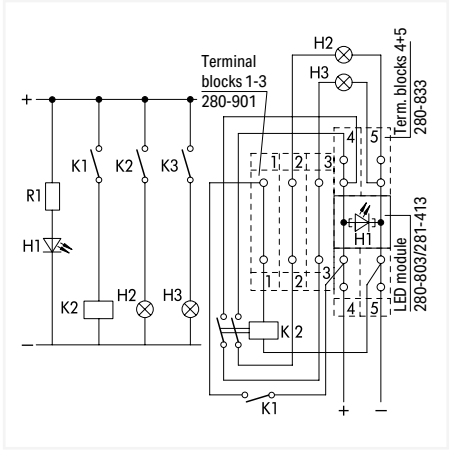
LED module		
	24 VDC	280-803/281-413
	48 VDC	280-803/281-414

LED module		
	24 VAC/DC	280-803/281-415
	48 VAC/VDC	280-803/281-416

Neon indicator module		
	120 VAC/VDC	280-803/281-418
	230 VAC/VDC	280-803/281-417



Multiple outputs with indicator lamp



Control unit

CAGE CLAMP®

L-Type Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Conductor Entry

249 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
Test voltage: 630 V	Test current: 6 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	



L-type test plug module; with spring-loaded contact pin; center module; snaps together Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	249-141	100 (25)

L-type end test plug module; with rigid contact pin; end module; snaps together Module width: 5 mm		
gray	249-142	100 (25)

L-type spacer module; snaps together; bridges wired terminal blocks Module width: 5 mm		
gray	249-143	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
Test voltage: 630 V	Test current: 6 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	



L-type test plug module; with spring-loaded contact pin; center module; snaps together Module width: 6 mm		
Color	Item No.	Pack. Unit
gray	249-144	100 (25)

L-type end test plug module; with rigid contact pin; end module; snaps together Module width: 6 mm		
gray	249-145	100 (25)

L-type spacer module; snaps together; bridges wired terminal blocks Module width: 6 mm		
gray	249-146	100 (25)

Accessories; for L-type test plug modules

Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
	plain	793-5501	5

Mini-WSB marking card; 10 strips with 10 markers/card; 5 mm wide markers			
	plain	248-501	5



Snapping test plug and spacer modules together to assemble a multipole test plug module (max. 10 poles).



A = Center module with a spring-loaded contact pin
B = End module with a rigid contact pin



For easily testing terminal block assemblies, WAGO's L-type test plug modules with CAGE CLAMP® may be used on unwired terminal blocks. For testing, the module is assembled with spring-loaded pins in the center positions and rigid pin modules at the ends. The terminal blocks corresponding to the end position modules are opened using operating tools (as shown) – these rigid pins are then held in place by the CAGE CLAMP®.
The intermediate pins are spring-loaded and make contact with the current bars of the unwired clamping units. Clamping units needing to remain wired may be skipped by assembling a spacer in the test plug module.

Notice:
Mating direction must be observed (see picture).



CAGE CLAMP® connection
0.08 … 1.5 mm²; 5 mm wide module
0.08 … 2.5 mm²; 6 mm wide module

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

CAGE CLAMP®

B-Type Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

249 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
Test voltage: 630 V	Test current: 10 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	



Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
Test voltage: 630 V	Test current: 10 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	





Snapping test plug and spacer modules together to assemble a multipole test plug module (max. 10 poles).

B-type test plug module; snaps together Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	249-106	100 (25)

B-type test plug module; snaps together Module width: 6 mm		
Color	Item No.	Pack. Unit
gray	249-147	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks, Module width: 5 mm		
gray	249-107	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks, Module width: 6 mm		
gray	249-148	100 (25)



B-type test plugs are directly plugged into the jumper contact slot of the current bar.

Accessories; for B-type test plug modules

Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable			
white	2009-115	1	

Mini-WSB Inline; plain; 1,700 Mini-WSB markers (5 mm wide) per reel; stretchable 5 … 5.2 mm			
white	2009-145	1	

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
plain	793-5501	5	

Mini-WSB marking card; 10 strips with 10 markers/card; 5 mm wide markers			
plain	248-501	5	



For testing individual circuits, offers a single-pole test plug accessory with CAGE CLAMP® up to 2.5 mm² (14 AWG) for direct contact with the current bar of a terminal block, or 1-pole test plug adapters for 4 mm Ø test plugs.

For serial testing on terminal block assemblies, has developed special multipole (max. 10-pole) modular test plug modules. WAGO's B-type test plug modules with CAGE CLAMP® connection are ideal for testing completely wired terminal blocks – even when using adjacent jumpers. For this testing type, the module assembly exactly matches the terminal block assembly. The test plug modules make direct contact to the jumper contact slots of the terminal blocks to be tested.



CAGE CLAMP® connection
0.08 … 1.5 mm²; 5 mm wide module
0.08 … 2.5 mm²; 6 mm wide module

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

CAGE CLAMP®

Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

Technical Data	
Test voltage: 400 V	Test current: 6 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	



Test plug module; snaps together Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	280-418	100 (25)

Spacer module; snaps together; bridges terminal blocks Module width: 5 mm		
gray	280-419	100 (25)

Technical Data	
Test voltage: 400 V	Test current: 6 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	



Test plug module; snaps together Module width: 6 mm		
Color	Item No.	Pack. Unit
gray	281-418	100 (25)

Spacer module; snaps together; bridges terminal blocks Module width: 5 mm		
gray	281-419	100 (25)

Accessories; for test plug modules		
Test plug; with 500 mm cable; 2 mm Ø; max. 42 V		
red	210-136	50



Snapping test plug and spacer modules together to assemble a multipole test plug module.



The test plug modules are directly plugged into the jumper contact slot of the current bar.

6

CAGE CLAMP®

B-Type Test Plug Module for Testing 8 mm or 10 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

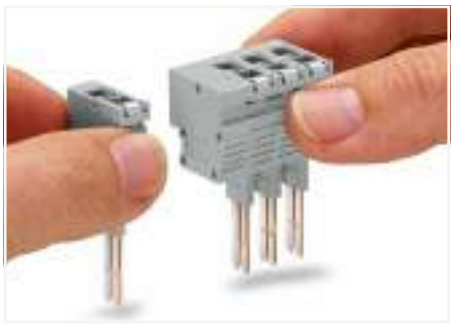
709 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
Test voltage: 800 V	Test current: 32 A
Module width: 8 mm / 0.315 inch	
This test plug is not suitable for Ex e applications.	



Technical Data
Module width: 2 mm / 0.079 inch
This intermediate plate is not suitable for Ex e applications.





Snapping test plug and spacer modules together to assemble a multi-pole test plug module (max. 10 poles) for 8 mm terminal block width.

B-type test plug module; snaps together
Module width: 8 mm

Color	Item No.	Pack. Unit
gray	709-310	100 (25)

B-type spacer plate; snaps together; snaps on B-type test plug modules (709-310) and B-type spacer modules (709-311)
Module width: 2 mm

Color	Item No.	Pack. Unit
gray	709-312	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks,
Module width: 8 mm

gray	709-311	100 (25)



Snapping test plug and spacer modules (each with a spacer plate) together to assemble a multi-pole test plug module (max. 10 poles) for 10 mm terminal block width.

Accessories; item-specific

Strain relief plate; gray; for 8 mm wide terminal blocks



2-pole	709-322	100 (25)
4-pole	709-324	100 (25)
6-pole	709-326	100 (25)

Accessories; item-specific

Strain relief plate; gray; for 10 mm wide terminal blocks



2-pole	709-332	100 (25)
4-pole	709-334	100 (25)
6-pole	709-336	100 (25)



For testing individual circuits, offers a single-pole test plug accessory with CAGE CLAMP® up to 2.5 mm² (14 AWG) for direct contact with the current bar of a terminal block, or 1-pole test plug adapters for 4 mm Ø test plugs.

For serial testing on terminal block assemblies, has developed special multipole (max. 10-pole) modular test plug modules. WAGO's B-type test plug modules with CAGE CLAMP® connection are ideal for testing completely wired terminal blocks – even when using adjacent jumpers. For this testing type, the module assembly exactly matches the terminal block assembly. The test plug modules make direct contact to the jumper contact slots of the terminal blocks to be tested.

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.



The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 284 Series).

Conductor Insulation Stop for Conductors 0.08 … 1.5 mm² / 28 … 16 AWG

Technical Data
Terminal block width: 4 mm / 0.157 inch



Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip		
Color	Item No.	Pack. Unit
○ white	279-470	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip		
● dark gray	279-471	200 (25)

Technical Data
Terminal block width: 5 mm / 0.197 inch



Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip		
Color	Item No.	Pack. Unit
○ white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip		
○ light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip		
● dark gray	280-472	200 (25)

Technical Data
Terminal block width: 6 mm / 0.236 inch

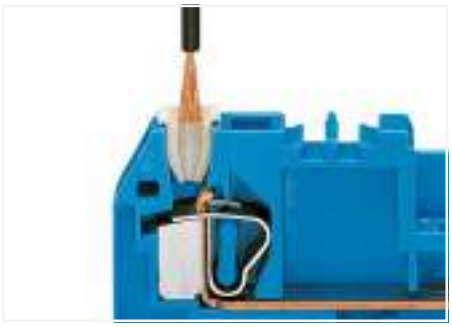


Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip		
Color	Item No.	Pack. Unit
○ white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip		
○ light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip		
● dark gray	281-472	200 (25)

6



Insert stripped, untwisted conductor into insulation stop.



The conductor is bundled.



The conductor insulation is prevented from being pushed into the clamping unit by the positive stop.



The problem: Wiring programmable logic controllers and microprocessor-operated control circuits often relies on very small, fine-stranded conductors. These conductors are highly flexible and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

The solution: An insulation stop for rail-mount terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit

Insulation stops are available as dividable 5-pole strips for 279, 280/780/870/880 and 281/781 Series Rail-Mount Terminal Blocks.
Insulation stop usage will not affect the conductor strip lengths for the aforementioned rail-mount terminal blocks.

Comb-Style Jumper Bar and Alternate Comb-Style Jumper Bar Operating Tool







Comb-style jumper bar; insulated; I_N = I_N of terminal block; for 279 Series		
	Item No.	Pack. Unit
○ 2-way	**279-482**	200 (25)
○ 3-way	**279-483**	200 (25)
○ 10-way	**279-490**	50 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block; for 280/769/780/880 Series		
	Item No.	Pack. Unit
○ 2-way	**280-482**	200 (25)
○ 3-way	**280-483**	200 (25)
○ 10-way	**280-490**	50 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block; for 281/781 Series		
	Item No.	Pack. Unit
○ 2-way	**281-482**	100 (25)
○ 3-way	**281-483**	100 (25)
○ 5-way	**281-485**	100 (25)
○ 10-way	**281-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block		
○ 2-way	**279-492**	200 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block		
○ 2-way	**280-492**	200 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block		
○ 2-way	**281-492**	100 (25)

Operating tool; insulated		
2-way	**279-432**	1
3-way	**279-433**	1
10-way	**279-440**	1

Operating tool; insulated		
2-way	**280-432**	1
3-way	**280-433**	1
10-way	**280-440**	1

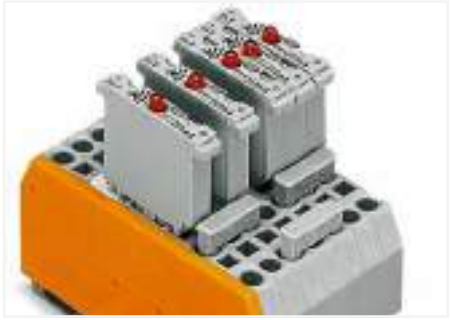
Operating tool; insulated		
2-way	**280-432**	1
3-way	**280-433**	1
5-way	**281-440**	1



Commoning using comb-style jumper bars.
Push comb-style jumper bars down until fully inserted.



4-conductor through terminal blocks, angled type – formation of groups with 3-way, comb-style jumper bars



Carrier terminal blocks with component plugs, alternate comb-style jumper bars, 3-way, comb-style jumper bar

Staggered Jumper

Technical Data
400 V / 6 kV / 3



❶ Suitable for Ex e II applications
Rated voltage (max.): 275 V
23 A, for 2-conductor terminal blocks
22 A, for 3-conductor terminal blocks
20 A, for 4-conductor terminal blocks
(see Section 15)

❷ Suitable for Ex e II applications
Rated voltage (max.): 275 V; 26 A
(see Section 15)

Staggered jumper; insulated; 5 mm wide; I_N 24 A		
	Item No.	Pack. Unit
1 to 2	780-452 ❶	100 (25)
1 to 3	780-453 ❶	100 (25)
1 to 4	780-454 ❶	100 (25)
1 to 5	780-455 ❶	50 (25)
1 to 6	780-456 ❶	50 (25)
1 to 7	780-457 ❶	50 (25)
1 to 8	780-458 ❶	50 (25)

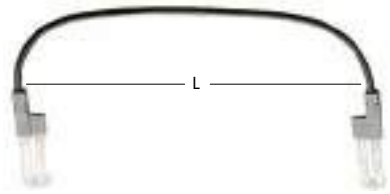
Staggered jumper; insulated; 6 mm wide; I_N 32 A		
1 to 2	781-452 ❷	100 (25)
1 to 3	781-453 ❷	100 (25)
1 to 4	781-454 ❷	100 (25)
1 to 5	781-455 ❷	50 (25)
1 to 6	781-456 ❷	50 (25)



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.

Push-In Type Wire Jumper

Technical Data
800 V / 8 kV / 3
I_N 9 A



Terminal Blocks Series	Wire Jumpers Item No.	"n"
279 (1.5 mm²/16 AWG)	249-125 249-126 249-127	13 25 60
280, 775, 780 (2.5 mm²/14 AWG) 769, 880 (4 mm²/12 AWG)	249-125 249-126 249-127	10 20 48
281, 781, 776, 777 (4 mm²/12 AWG)	249-125 249-126 249-127	9 17 40

"n" = number of 279, 280/769/780/880 and 281/781 Series Rail-Mount Terminal Blocks that can be skipped with a wire jumper.

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section		
	Item No.	Pack. Unit
L = 60 mm	**249-125**	10

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section		
L = 110 mm	**249-126**	10

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section		
L = 250 mm	**249-127**	10

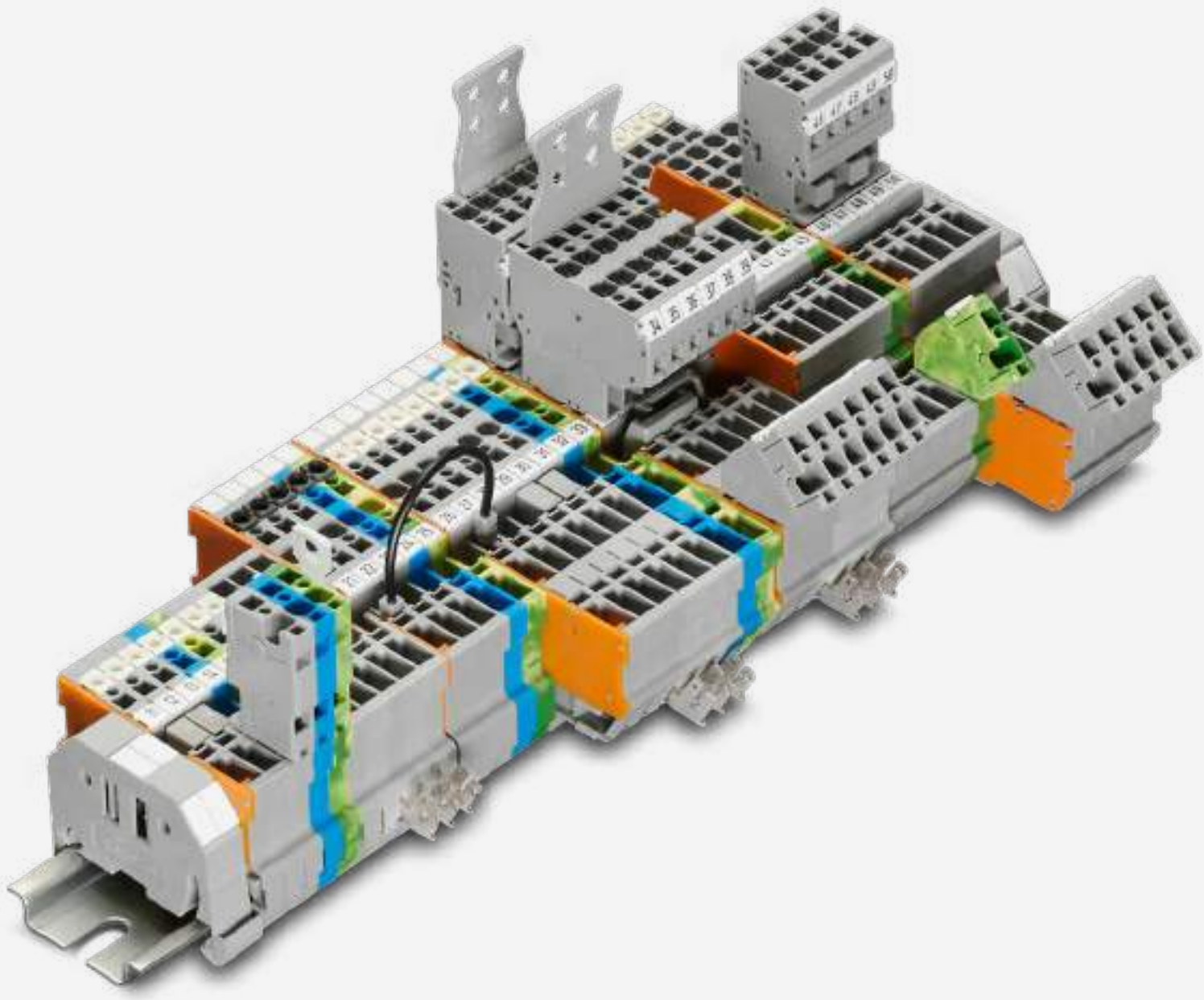


The 280/775/780 and 281/776/777/781 Series Terminal Blocks accept two wire jumpers, allowing the use of commoning chains. Furthermore, the 280/769/775/780/880 and 281/776/777/781 Series allow both wire jumper and adjacent jumper to be simultaneously plugged into a same terminal block.

Push-in type wire jumper:
When installing machines or control systems, it is often necessary to make an additional connection between two terminal blocks that are not next to each other on the rail. In such cases, WAGO's touch-proof, push-in type wire jumpers are the ideal solution.

This jumper is compatible with the following rail-mount terminal blocks:
- 279 Series (1.5 mm²/16 AWG),
- 280/775/780 Series (2.5 mm²/14 AWG)
- 281/769/776/777/781 and 880 Series (4 mm²/12 AWG)

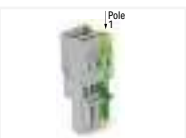
They are available in three conductor lengths (60, 110 and 250 mm), allowing up to 60 terminal blocks to be commoned depending on their width (see table on the right).



WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®-SYSTEM

CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®-SYSTEM

			Page
	**Carrier Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	436
	**Carrier Terminal Blocks; with Three Jumper Positions** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	446
	**Disconnect Carrier Terminal Blocks; with Two Jumper Positions** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	438
	**Diode and LED Carrier Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	440
	**Carrier Terminal Blocks for a Pluggable Module** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	458
	**Double-Deck Carrier Terminal Blocks** 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	466
	**Male Connectors; with CAGE CLAMP® Connection** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	476
	**Male Headers; with Solder Pins** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	480
	**Female Plugs; with/without Lateral Locking Levers** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	486
	**Female Plugs for Self-Assembly** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	490
	**Pre-Assembled Female Plugs** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	492
	**Strain Relief Housings**	769 Series	494

7

COM-bining Connectors and Rail-Mount Terminal Blocks X-COM®-SYSTEM

The X-COM-SYSTEM® is the perfect solution for switchgear and control applications.

X-COM® is designed for a **rated current up to 16/32 A at U_N 500 V and 4 mm² (12 AWG) rated cross section (up to 600 V, 10 A, and 12 AWG UL).** This offers an alternative to heavy-duty rectangular and circular connectors used in power wiring applications where electrical compliance is more important than a high degree of protection.
X-COM® conveniently enables the use of pre-assembled connector systems and offers the following advantages:

- During manufacturing: Pre-wired subassemblies can be tested before installation.
- During assembly: Pre-assembled pluggable cable harnesses help solve time and space issues on site. Connector systems with protection against mismating can be handled by installers of all skill levels.
- During maintenance: Subassemblies can be replaced quickly and without errors.

The X-COM®-SYSTEM consists of rail-mount carrier terminal blocks, male connectors and female plugs with different mounting systems, as well as male headers with solder pins. Pin spacing is generally 5 mm (0.197 inch).



7

Protection Against Mismating and Accidental Contact

The WAGO-X-COM®-SYSTEM is **fully protected against accidental contact – even when plugs are disconnected**. This dramatically simplifies the planning of power distribution.
Furthermore, the whole system is **100% protected against mismating**. Its coding, without the loss of any poles, prevents mismating of male connectors and female plugs having the same number of poles.

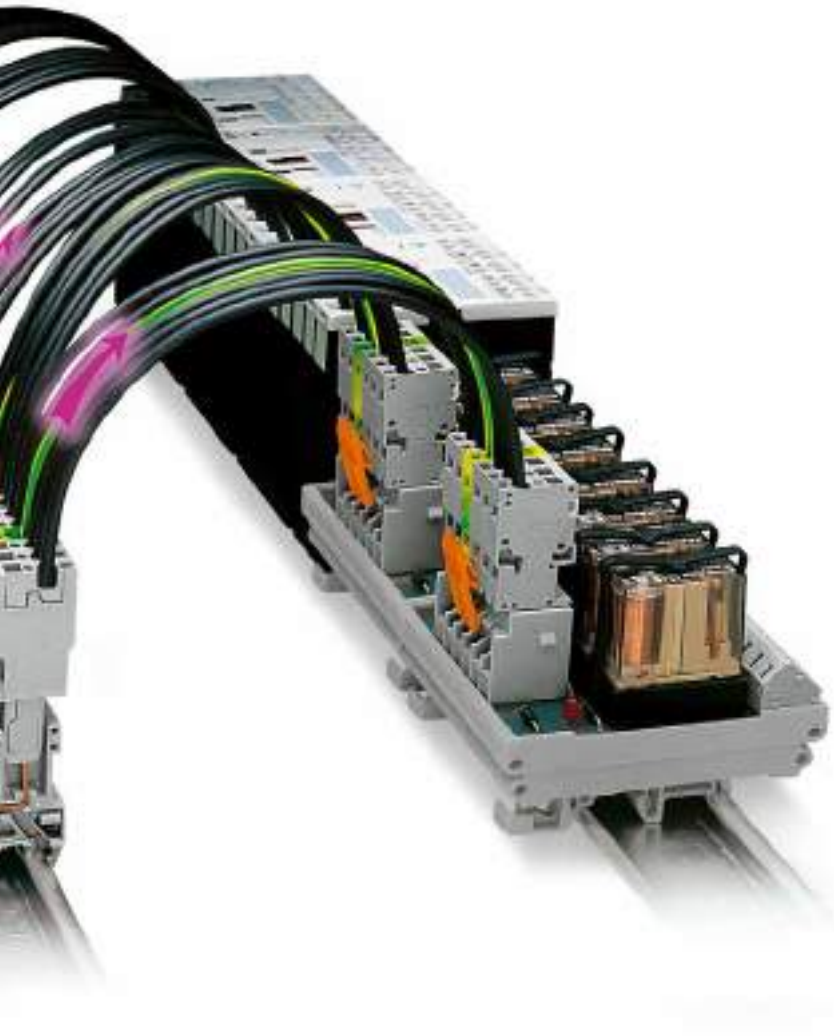
Carrier Terminal Blocks

Carrier terminal blocks are available as through terminal blocks, double-deck terminal blocks and ground conductor terminal blocks with automatic contact to the DIN-rail. Carrier terminal blocks with specialty functions are available in disconnect, diode and LED versions. Carrier terminal blocks equipped with an additional socket can accommodate a wide range of pluggable electronic modules (e.g., relays, optocouplers, signal conditioners).
Depending on the type of terminal block, the carrier terminal blocks are equipped with one to three jumper positions for commoning signals via insulated push-in type jumpers.

Applications

X-COM®-SYSTEM connects to:

- Frequency converters
- Thyristor actuators
- Soft start motor controllers
- Motors
- Phase filters
- Power subassemblies
- Power supply units
- Uninterruptible power supply (UPS)
- “Panel-to-door” wiring
- Pluggable high-current, feed-through connections
- Flying leads



Female Plugs
The mating half of the carrier terminal blocks consists of modular female plugs (1- to 15-pole, 1-/2-conductor, straight/angled). Angled female plugs combined with double-deck terminal blocks offer high-density wiring and reduce overall terminal block height. A jumper slot simplifies potential distribution.
This makes commoning supply lines particularly easy as the power supply of downstream subassemblies is maintained even after female plugs have been removed.

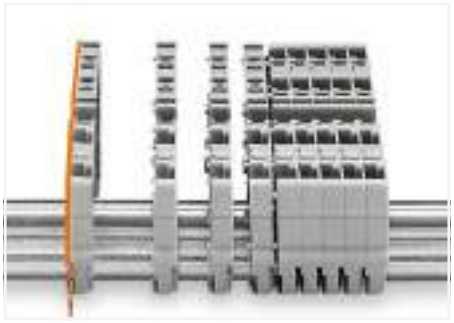
1-Pole Female Plugs
Special 1-pole female plugs can carry the full rated current of the terminal blocks for many applications:
- as test plug adapters
- as connectors for motor lead tests
- for all types of patchboard applications
- for the creation of multipole prototypes
- for phase selection of 230 V loads in a three-phase network without interfering with the wiring
- for single-pole power supply in commercial or recreational vehicles. The grounding of all electrical components is connected through the chassis.

Male Connectors
Male connectors are available with snap-in mounting feet for panel mounting, with mounting flanges for feedthrough applications or without mounting elements for flying leads. Strain relief plates are available as accessories.
Subassemblies on printed circuit boards can be integrated into the system wiring using male headers with solder pins. As a result, parts can be exchanged quickly without wiring errors.

Degree of Protection
Mated: IP20
Unmated: IP20
Temperature range:
–35 … +100 °C

Carrier Terminal Blocks and Female Plugs X-COM®-SYSTEM 769 Series

Description and Installation



Snap individual carrier terminal blocks onto the DIN-rail and slide together.



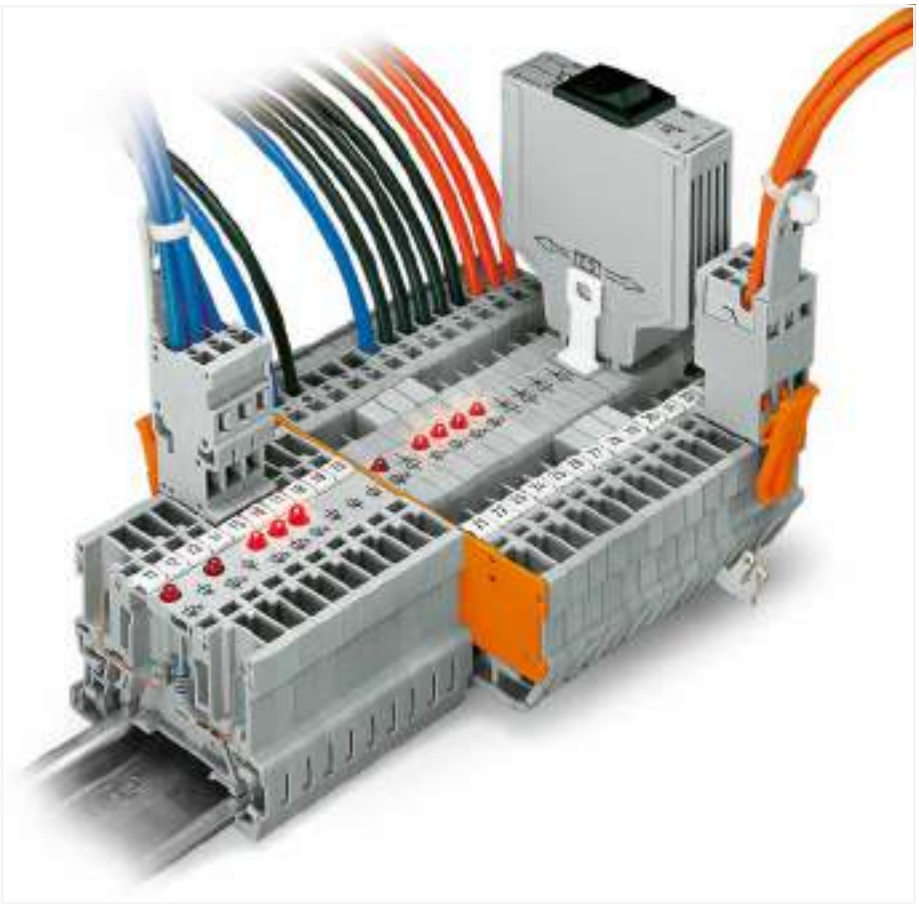
Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

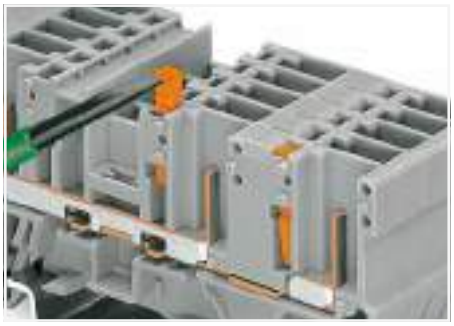


Carrier terminal block: Insert/remove conductor via operating tool (3.5 x 0.5 mm blade).

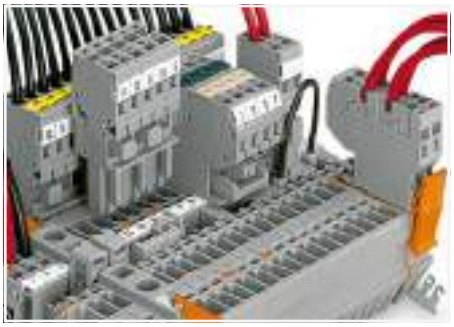


Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.





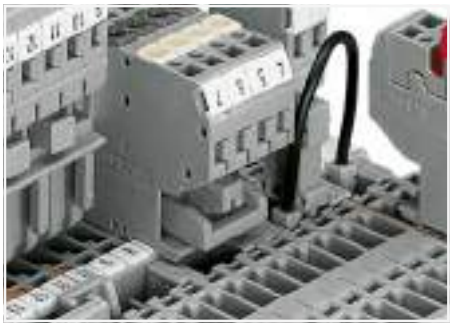
Snap coding pin in proper direction on carrier terminal block.
Shown: Coding pin removal from carrier terminal block.



Commoning with adjacent or staggered jumpers – push jumpers down until fully inserted.



Commoning carrier terminal blocks via staggered jumpers.



Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

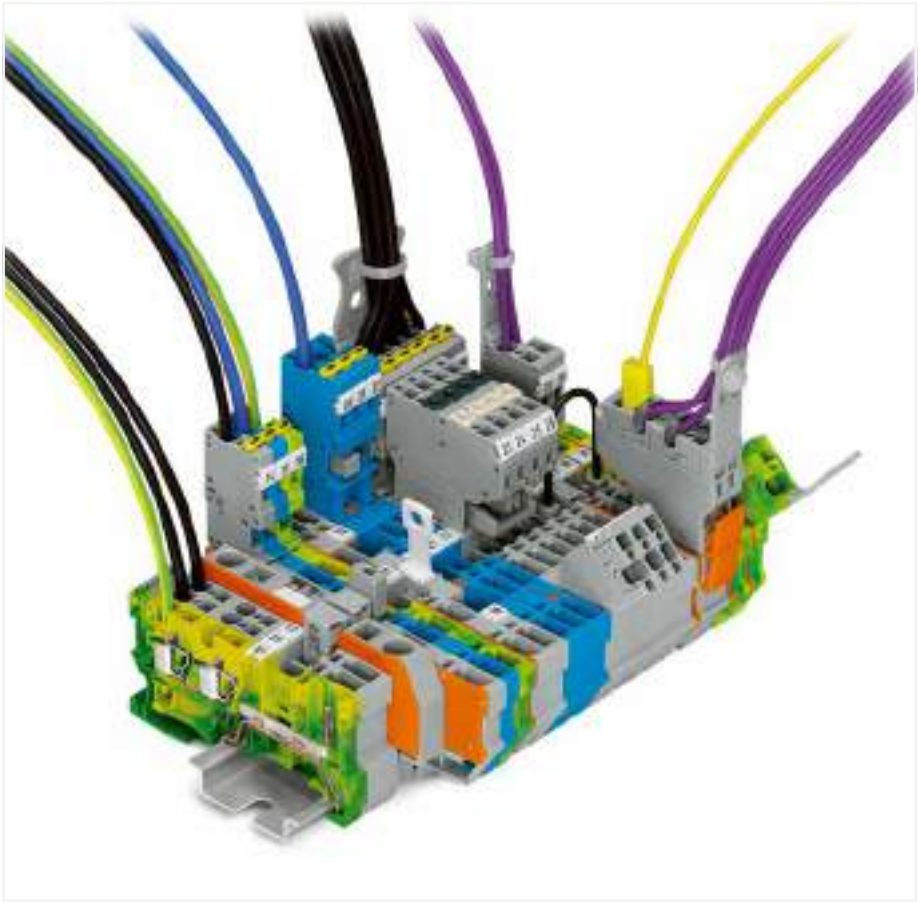
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



CAGE CLAMP® connection
Female plug: Inserting/removing a conductor via operating tool. Operation 90° to conductor is also possible.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Locking/releasing a lever.



Note: Female plugs used according to the regulations must not be connected/disconnected when live or under load.



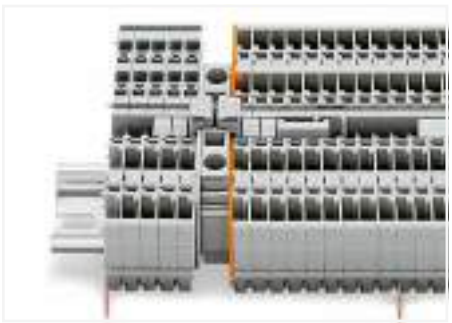
Female plug secured with locking lever on the terminal block side.



Removing a female plug via conductor bundle provided with strain relief plate.



Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.



Commoning a 1-conductor female plug via miniature adjacent jumpers.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

Carrier Terminal Blocks, Female Plugs and Male Connectors X-COM®-SYSTEM
769 Series
Product Range Overview



1-conductor/1-pin carrier terminal block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



1-conductor/1-pin ground carrier terminal block
2-conductor female plug; green-yellow



2-pin carrier terminal block; with shield contact
2-conductor female plug
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



4-pin carrier terminal block
2-conductor female plug
1-connector female plug; straight



4-pin ground carrier terminal block
1-connector female plug; straight
2-conductor female plug



2-conductor/2-pin carrier terminal block; with shield contact
2-conductor female plug
1-connector female plug; straight



1-conductor/1-pin disconnect carrier terminal block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



2-pin diode carrier block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



2-pin LED carrier block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



2-pin disconnect carrier terminal block; with two jumper positions
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



1-conductor/1-pin diode carrier terminal block; with two jumper positions
2-conductor female plug



2-pin LED carrier terminal block; with two jumper positions
2-conductor female plug
1-connector female plug; straight



1-conductor/1-pin carrier terminal block; with three jumper positions
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



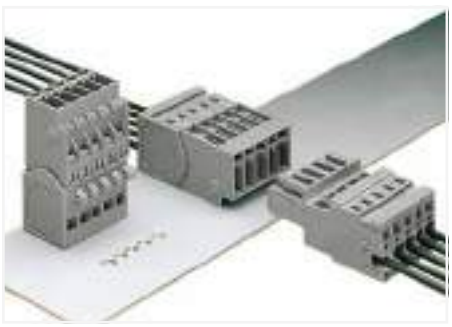
Male connector; with CAGE CLAMP® connection
1-connector female plug; straight



Male header; with straight solder pins and 1-conductor female plug (picture shows a relay module)



1-conductor/1-pin carrier terminal block; with two jumper positions
1-connector female plug; straight*
Fuse plug; 6 mm wide (every other terminal block)
*1-conductor angled female plug is also possible!



Male connector; with CAGE CLAMP® connection and snap-in mounting feet
1-connector female plug; straight



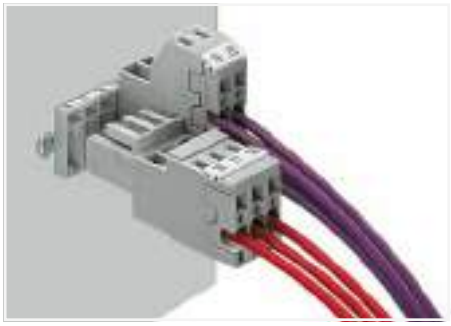
Male header and 1-conductor female plug; with lateral locking levers



2-pin terminal block for pluggable modules; with two jumper positions and separator plate
1-connector female plug; straight*
Relay plug; 25 mm wide
*1-conductor angled female plug is also possible!



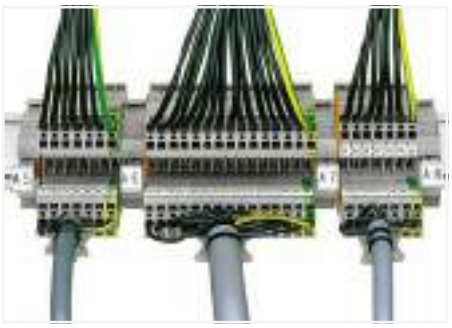
Male connector; with CAGE CLAMP® and mounting flanges
1-connector female plug; straight



Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug



1-conductor/1-pin double-deck carrier terminal block
1-conductor female plug; angled*
*1-conductor straight female plug is also possible!



Cable entry into the control cabinet:
The cables are led into the control cabinet with the connected female plugs and are directly plugged onto the carrier terminal blocks.



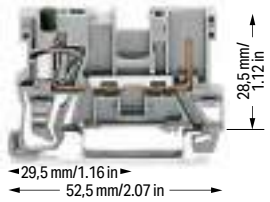
Cable entry in the base of the control cabinet
Separate strain relief, movable IP54 bottom plates sealed with sponge rubber (e.g., by Rittal)

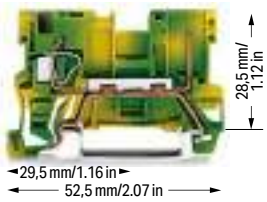
CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

❷ See current-carrying capacity curve on page 454 and upon request

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 421
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

1-conductor/1-pin carrier terminal block

Color	Item No.	Pack. Unit
gray	769-176	100
blue	769-176/000-006	100
orange	769-176/000-012	100

1-conductor/1-pin ground carrier terminal block

Color	Item No.	Pack. Unit
green-yellow	769-237	100

1-conductor/1-pin carrier terminal block; with shield contact

gray	769-231 ❶	50

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow | 280-415 | 100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange | 769-308 | 100 (25)
gray | 769-307 | 100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white | 769-470 | 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray | 769-471 | 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray | 769-472 | 200 (25)

Coding pin; for coding female plugs



orange | 769-435 | 100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray | 280-402 | 200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray | 280-409 | 100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray | 280-418 | 100 (25)

Spacer module; snaps together; 5 mm wide



gray | 280-419 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red | 210-136 | 50

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks



gray | 280-404 | 100 (25)

Pin cover; with Mini-WSB marker slot



gray | 769-438 | 100 (25)
orange | 769-439 | 100 (25)

1-connector female plug; straight



gray | 769-101 | 200

1-conductor female plug; angled



gray | 769-101/022-000 | 200

2-conductor female plug



gray | 769-121 | 100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white | 2009-145 | 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

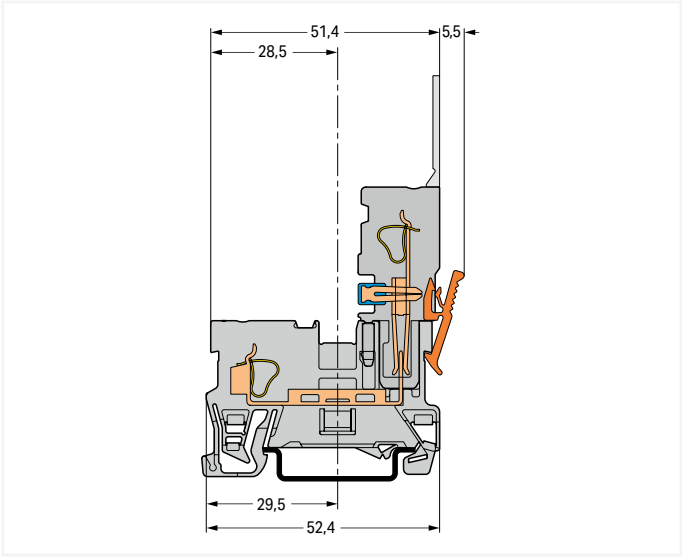
plain | 248-501 | 5

CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types



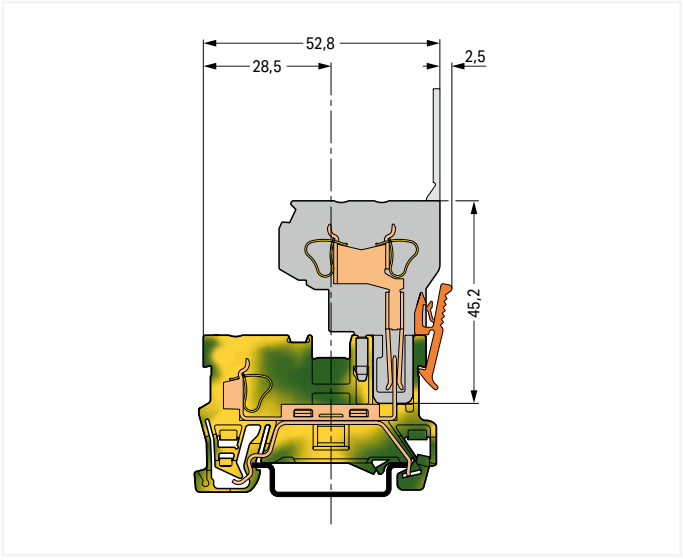
1-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



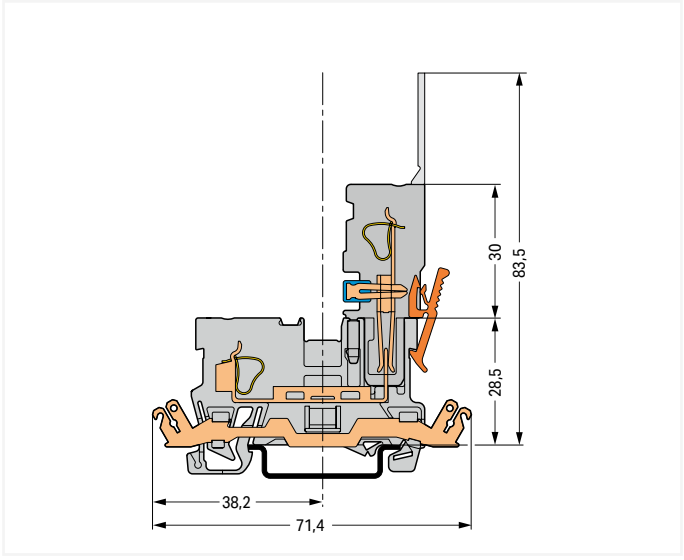
Carrier terminal block



2-conductor female plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



Ground carrier terminal block



Carrier terminal block; with shield contact

7

2-Pin Carrier Terminal Block X-COM®-SYSTEM
769 Series

Technical Data	
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	

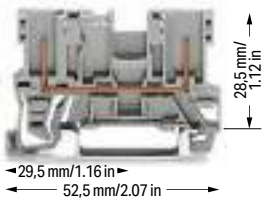
Technical Data
Terminal block width: 5 mm / 0.197 inch

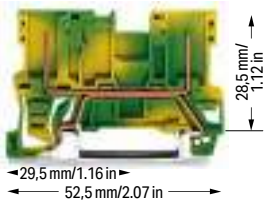
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

❷ See current-carrying capacity curve and upon request

Please observe the application notes:
Jumpers, from page 426
Testing accessories, from page 421
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com





2-Pin Carrier Terminal Block

Color	Item No.	Pack. Unit
gray	769-156	100
blue	769-156/000-006	100

2-pin ground carrier terminal block

Color	Item No.	Pack. Unit
green-yellow	769-227	100

2-pin carrier terminal block; with shield contact

gray	769-221 ❶	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-306	100 (25)
gray	769-305	100 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



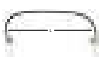
gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

2-conductor female plug



gray	769-121	100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

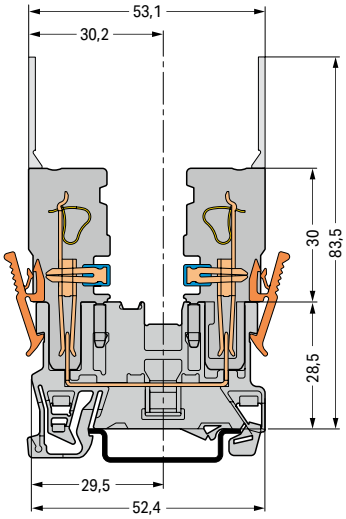
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

2-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types



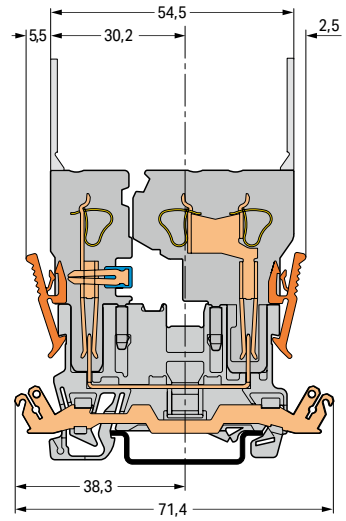
1-Conductor Female Plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Carrier terminal block



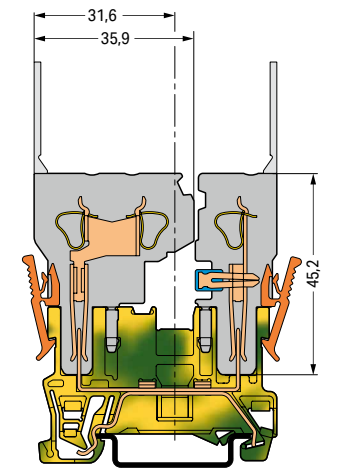
1- and 2-Conductor Female Plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



Carrier terminal block; with shield contact



2- and 1-Conductor Female Plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers.

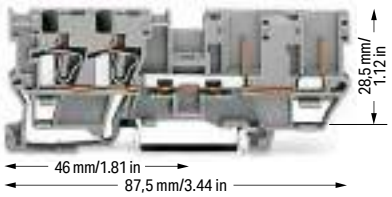


Ground carrier terminal block

CAGE CLAMP®

2-Conductor/2-Pin Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

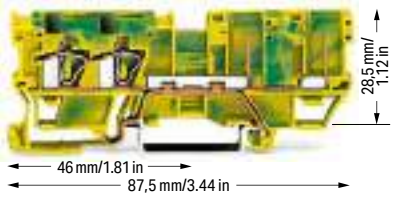
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor/2-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	769-171	50
blue	769-171/000-006	50

2-conductor/2-pin carrier terminal block; with shield contact		
gray	769-211 ❶	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor/2-pin ground carrier terminal block		
Color	Item No.	Pack. Unit
green-yellow	769-217	50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

❷ See current-carrying capacity curve on page 455 and upon request

Note: 1-conductor angled female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 420
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	280-415	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick			
	orange	769-304	100 (25)
	gray	769-303	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	769-472	200 (25)

Coding pin; for coding female plugs			
	orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block			
	gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A		
1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A		
L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide			
	gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide			
	gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V			
	red	210-136	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks			
	gray	280-404	100 (25)

Pin cover; with Mini-WSB marker slot			
	gray	769-438	100 (25)
	orange	769-439	100 (25)

1-connector female plug; straight			
	gray	769-101	200

2-conductor female plug			
	gray	769-121	100

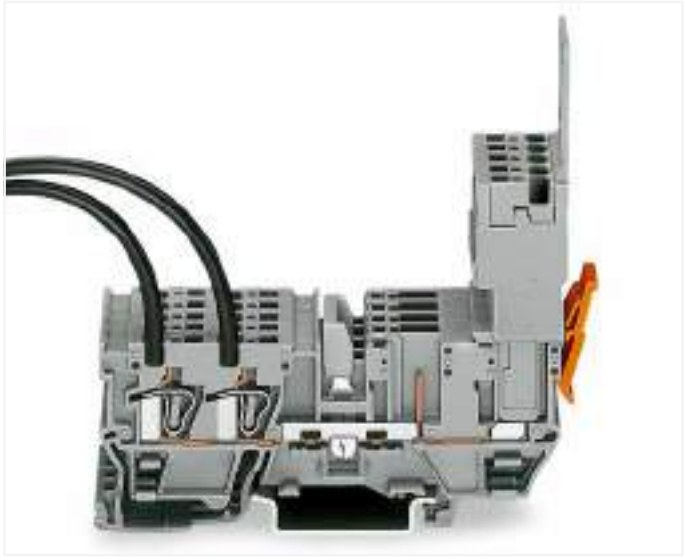
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable			
	white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers			
	plain	248-501	5

7

CAGE CLAMP®

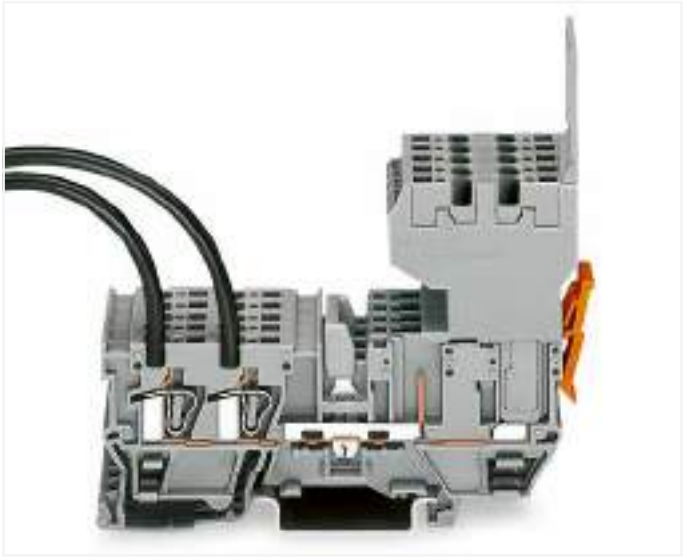
2-Conductor/2-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types



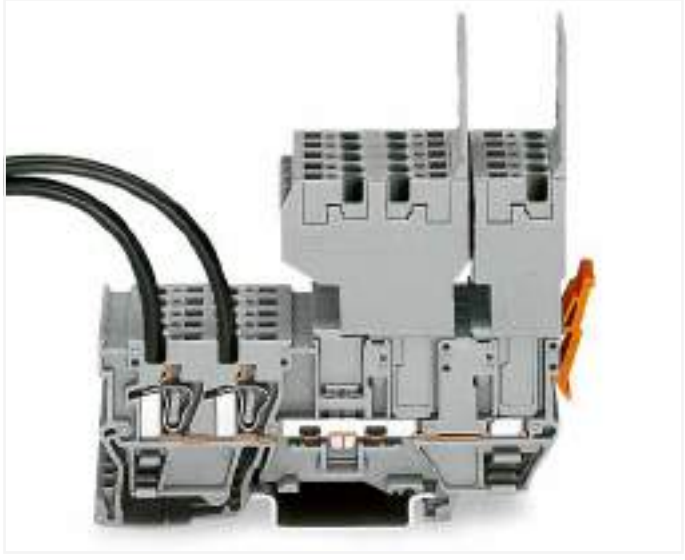
1-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



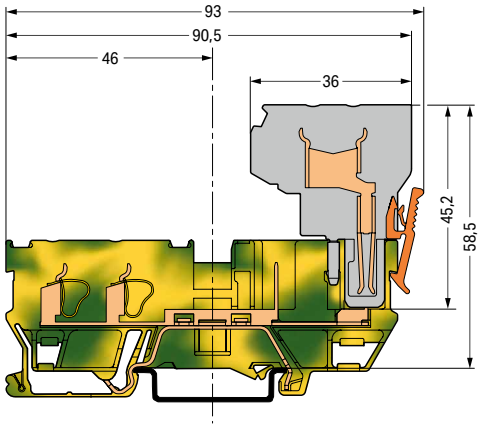
2 x 1-conductor female plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

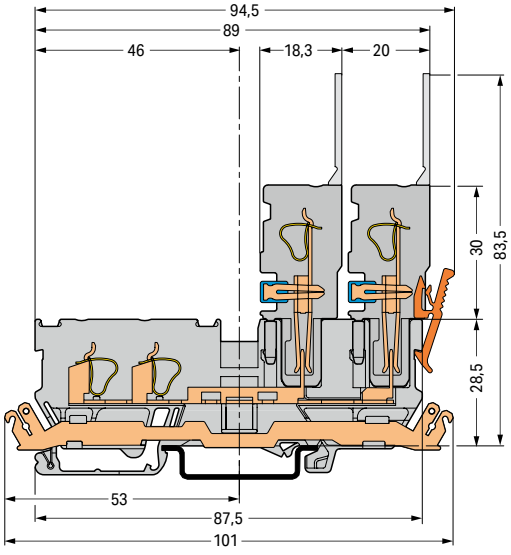


2-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



1- and 2-Conductor Female Plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.





Ground carrier terminal block
Carrier terminal block; with shield contact

7

4-Pin Carrier Terminal Block X-COM®-SYSTEM
769 Series

Technical Data	
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	

Technical Data
Terminal block width: 5 mm / 0.197 inch

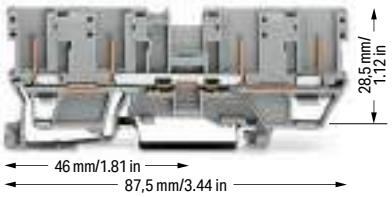
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

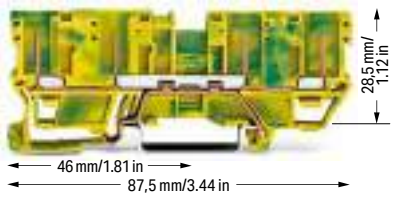
❷ See current-carrying capacity curve on page 455 and upon request

Note: 1-conductor angled female plugs cannot be used.

Please observe the application notes:
Jumpers, from page 426
Testing accessories, from page 421
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com





4-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	769-151	50

4-pin ground carrier terminal block		
Color	Item No.	Pack. Unit
green-yellow	769-207	50

4-pin carrier terminal block; with shield contact		
gray	769-201 ❶	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-302	100 (25)
gray	769-301	100 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight



gray	769-101	200

2-conductor female plug



gray	769-121	100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

4-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types



4 x 1-conductor female plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



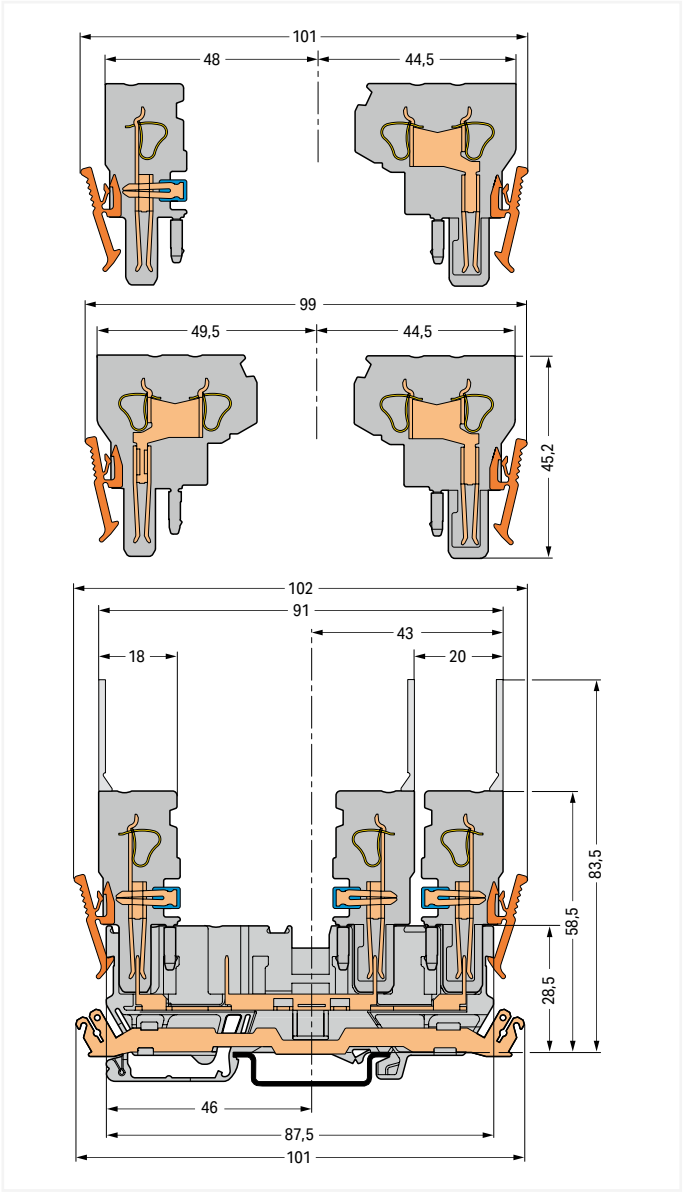
2 x 2-conductor female plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



2 x 1-conductor female plug (left), 1 x 2-conductor female plug (right), may be reversed – carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



1-conductor and 2-conductor female plugs (left), 2-conductor female plug (right), may be reversed – carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.

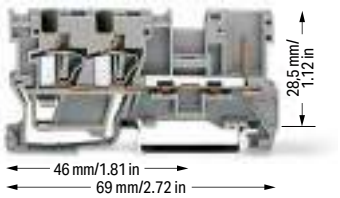


Carrier terminal block; with shield contact

CAGE CLAMP®

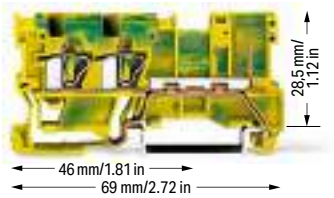
2-Conductor/1-Pin Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-Conductor/1-Pin Carrier Terminal Block		
Color	Item No.	Pack. Unit
gray	769-251	50
blue	769-251/000-006	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-pin ground carrier terminal block		
Color	Item No.	Pack. Unit
green-yellow	769-257	50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 420
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-321	100 (25)
gray	769-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

B-type test plug module; snaps together; 5 mm wide



gray	249-106	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

2-conductor female plug



gray	769-121	100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

7

CAGE CLAMP®

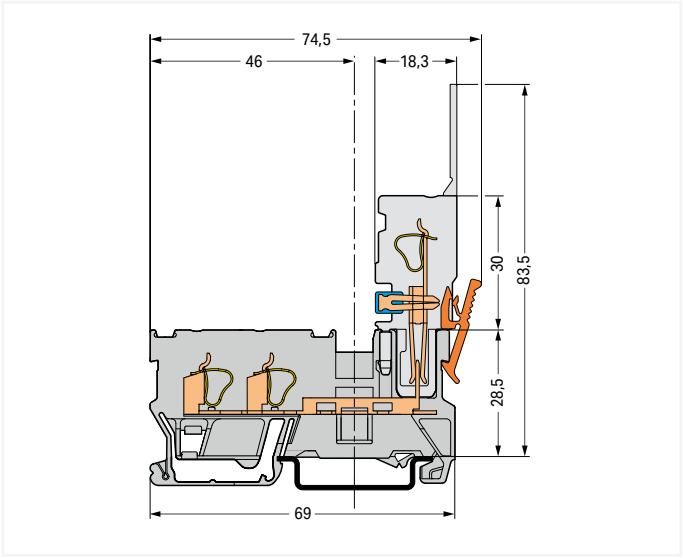
2-Conductor/1-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types



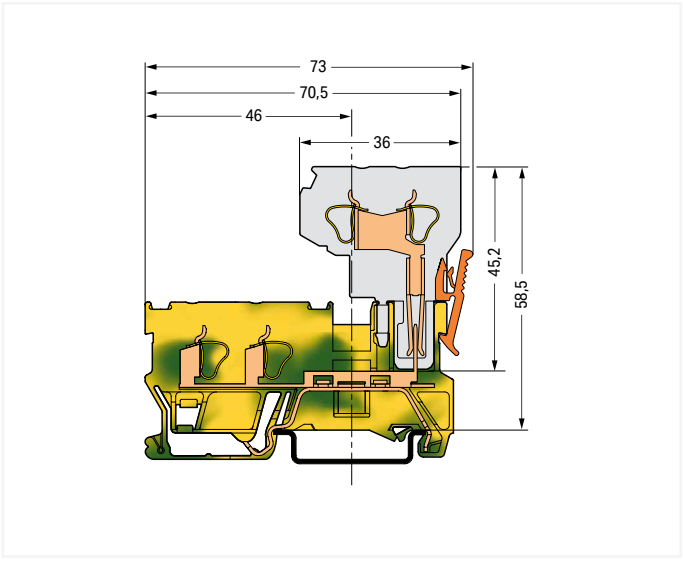
Pin cover (769-438); with Mini-WSB marker slot



1-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Carrier terminal block



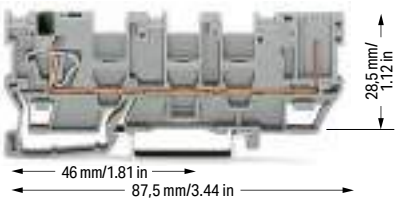
Ground carrier terminal block

7

CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Block X-COM®-SYSTEM; with Three Jumper Positions
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 425
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

1-conductor/1-pin carrier terminal block; with three jumper positions

Color	Item No.	Pack. Unit
gray	769-214	50

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-316	100 (25)
gray	769-315	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

2-conductor female plug



gray	769-121	100

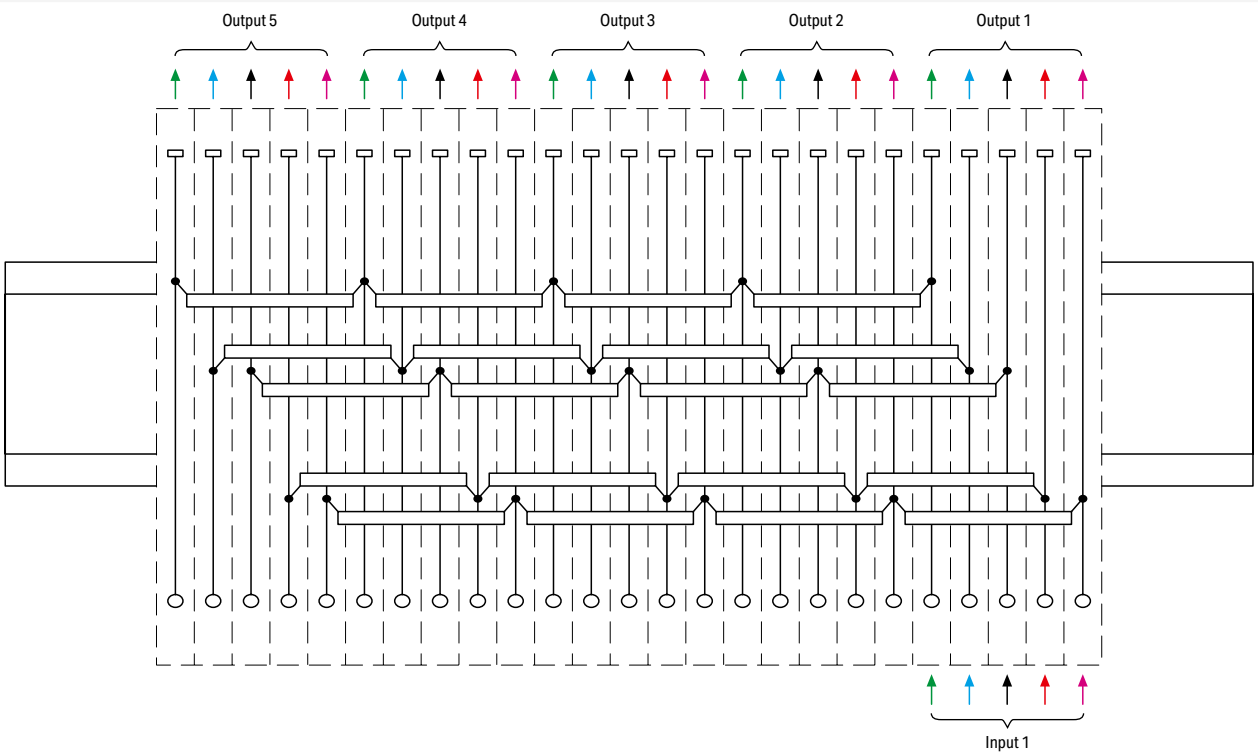
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

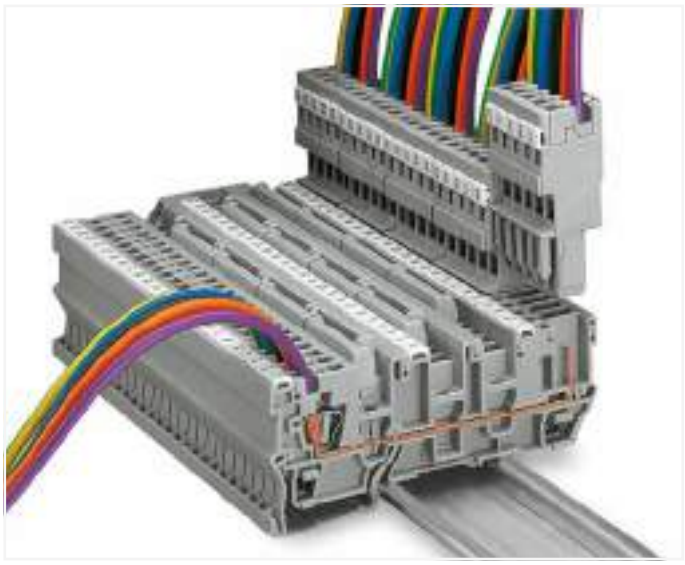
plain	248-501	5



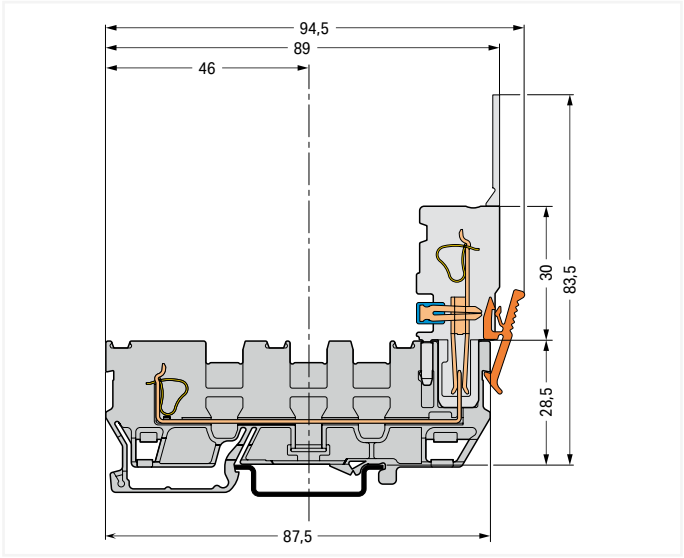
CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types

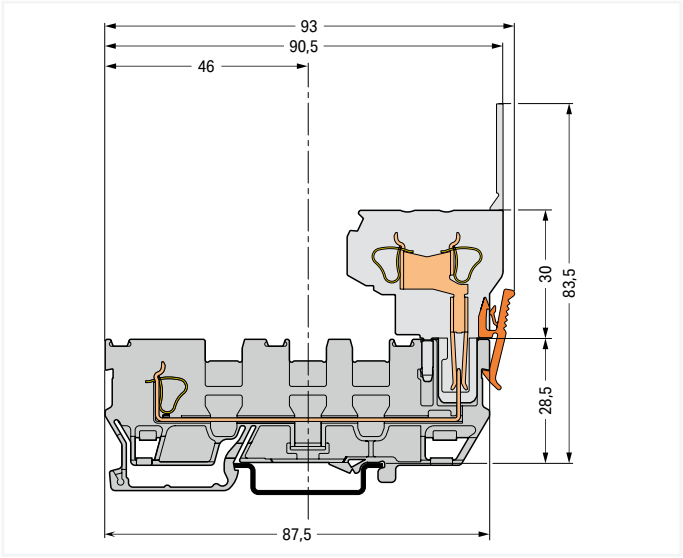




1-conductor/1-pin carrier terminal blocks; with three jumper positions
The three jumper positions allow up to six commoning options for staggered jumpers.



Carrier terminal block



Carrier terminal block

Application examples:
Multiplication of three-phase circuits L1-L2-L3-N-PE
with pluggable outputs (e.g., for motors, frequency converters, power units)
Voltage supplies to multiple locations
(e.g., ±15 V, 0 V, +5 V, +12 V, +24 V)
Various wire-to-wire interfacing possibilities

7

CAGE CLAMP®

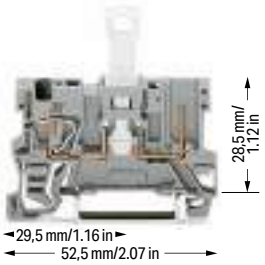
1-Conductor/1-Pin and 2-Pin Disconnect Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

Terminal block width: 5 mm / 0.197 inch

8 … 9 mm / 0.31 … 0.35 inch



1-conductor/1-pin disconnect carrier terminal block

Color	Item No.	Pack. Unit
gray	769-232	50

1-conductor/1-pin disconnect carrier terminal block; with shield contact

Color	Item No.	Pack. Unit
gray	769-233 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-308	100 (25)
gray	769-307	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

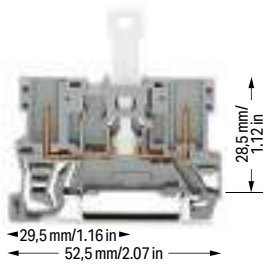


red	210-136	50

Technical Data

400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

Terminal block width: 5 mm / 0.197 inch



2-pin disconnect carrier terminal block

Color	Item No.	Pack. Unit
gray	769-222	50

2-pin disconnect carrier terminal block; with shield contact

Color	Item No.	Pack. Unit
gray	769-223 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-306	100 (25)
gray	769-305	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs



orange	769-435	100 (25)

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)



red	709-170	200 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

7

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Disconnect Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

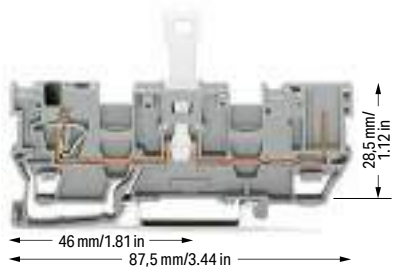
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

Terminal block width: 5 mm / 0.197 inch

8 … 9 mm / 0.31 … 0.35 inch



1-conductor/1-pin disconnect carrier terminal block; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-212	50

1-conductor/1-pin disconnect carrier terminal block; with shield contact; with two jumper positions

gray	769-213 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

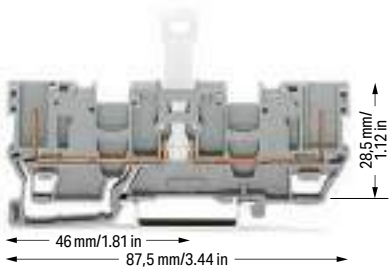


orange	769-435	100 (25)

Technical Data

400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

Terminal block width: 5 mm / 0.197 inch



2-pin disconnect carrier terminal block; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-202	50

2-pin disconnect carrier terminal block; with shield contact; with two jumper positions

gray	769-203 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-313	100 (25)

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)



red	709-170	200 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 422
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

2-conductor female plug



gray	769-121	100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

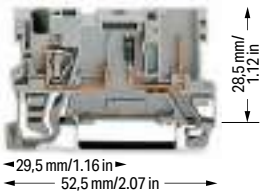
7

CAGE CLAMP®

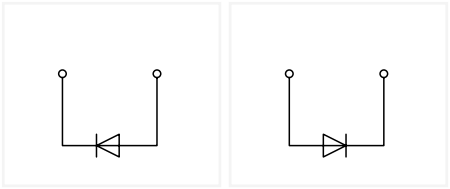
1-Conductor/1-Pin and 2-Pin Diode Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data

0.08 … 4 mm² | 28 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



769-238/281-411 769-238/281-410



1-conductor/1-pin diode carrier terminal block

	Item No.	Pack. Unit
Anode, right side	**769-238/281-411**	100
Anode, left side	**769-238/281-410**	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	**769-308**	100 (25)
gray	**769-307**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**769-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**769-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	**769-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	**280-415**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	**210-136**	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

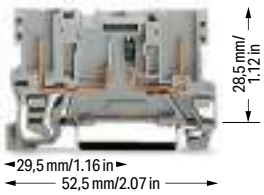
Coding pin; for coding female plugs



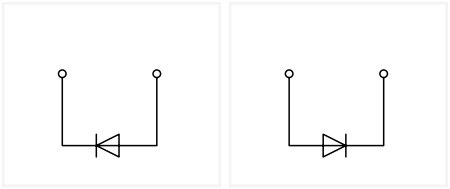
orange	**769-435**	100 (25)

Technical Data

U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch



769-228/281-411 769-228/281-410



2-pin diode carrier block

	Item No.	Pack. Unit
Anode, right side	**769-228/281-411**	100
Anode, left side	**769-228/281-410**	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	**769-306**	100 (25)
gray	**769-305**	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

1-connector female plug; straight



gray	**769-101**	200

1-conductor female plug; angled



gray	769-101/022-000	200

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	**2009-145**	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	**248-501**	5

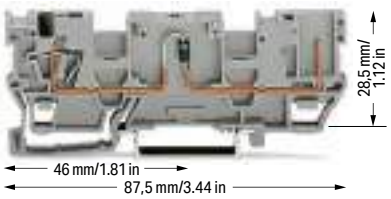
CAGE CLAMP®

1-Conductor/1-Pin and 2-Din Diode Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

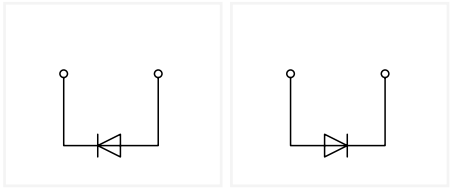
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



769-218/281-411 769-218/281-410



1-conductor/1-pin diode carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
Anode, right side	769-218/281-411	50
Anode, left side	769-218/281-410	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

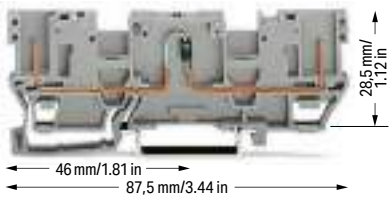
Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



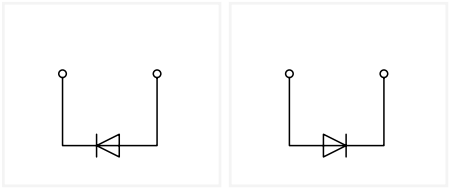
red	210-136	50

Technical Data

U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch



769-208/281-411 769-208/281-410



2-pin diode carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
Anode, right side	769-208/281-411	50
Anode, left side	769-208/281-410	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-313	100 (25)

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 422
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

2-conductor female plug



gray	769-121	100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

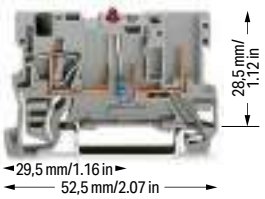
7

CAGE CLAMP®

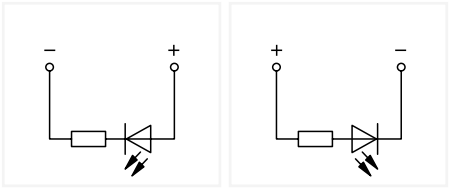
1-Conductor/1-Pin and 2-Pin LED Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data

0.08 … 4 mm² | 28 … 12 AWG
24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



769-239/281-413 769-239/281-434



1-cond./1-pin LED carrier block

	Item No.	Pack. Unit
Anode, right side	769-239/281-413	100
Anode, left side	769-239/281-434	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-308	100 (25)
gray	769-307	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

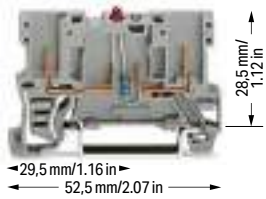
Coding pin; for coding female plugs



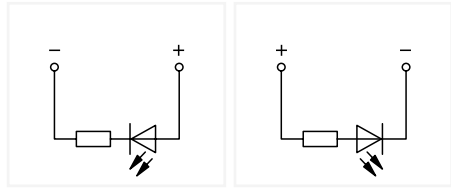
orange	769-435	100 (25)

Technical Data

24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch



769-229/281-413 769-229/281-434



2-pin LED carrier block

	Item No.	Pack. Unit
Anode, right side	769-229/281-413	100
Anode, left side	769-229/281-434	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-306	100 (25)
gray	769-305	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

7

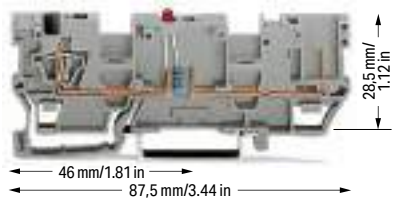
CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin LED Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

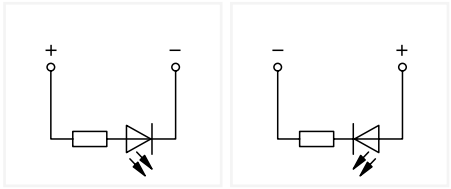
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



769-219/281-434 769-219/281-413



1-conductor/1-pin LED carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
Anode, left side	769-219/281-434	50
Anode, right side	769-219/281-413	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

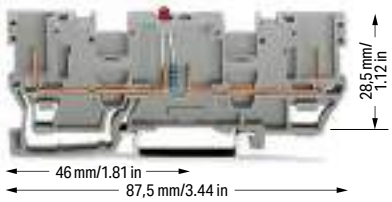
Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



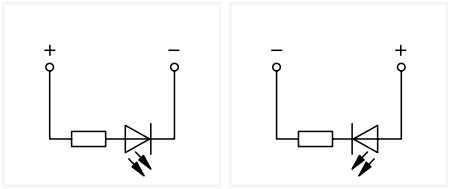
red	210-136	50

Technical Data

24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch



769-209/281-434 769-209/281-413



2-pin LED carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
Anode, left side	769-209/281-434	50
Anode, right side	769-209/281-413	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick



orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-313	100 (25)

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 422
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

2-conductor female plug



gray	769-121	100

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

7

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

Assembly Types



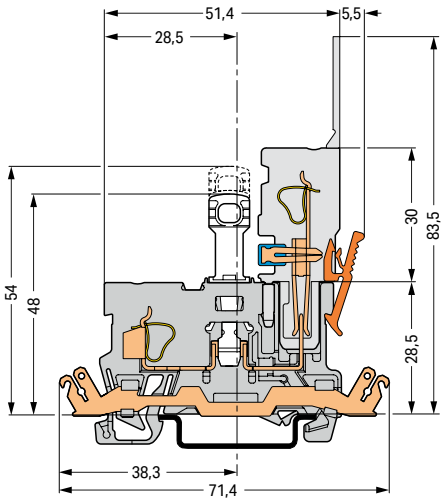
1-conductor female plug
Disconnect carrier terminal blocks cannot be commoned.



1-conductor female plug
Disconnect carrier terminal blocks cannot be commoned.



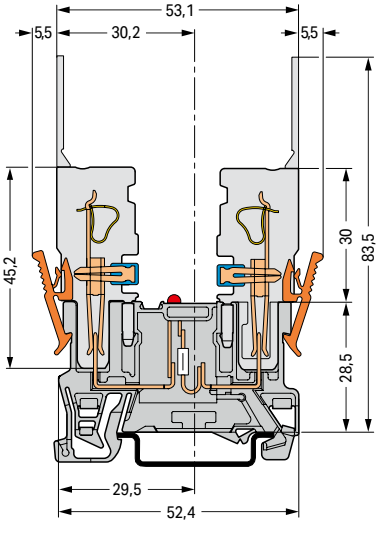
1-conductor female plug
Diode carrier terminal blocks cannot be commoned.



Disconnect carrier terminal block; with shield contact



1-conductor female plug
LED carrier terminal blocks cannot be commoned.

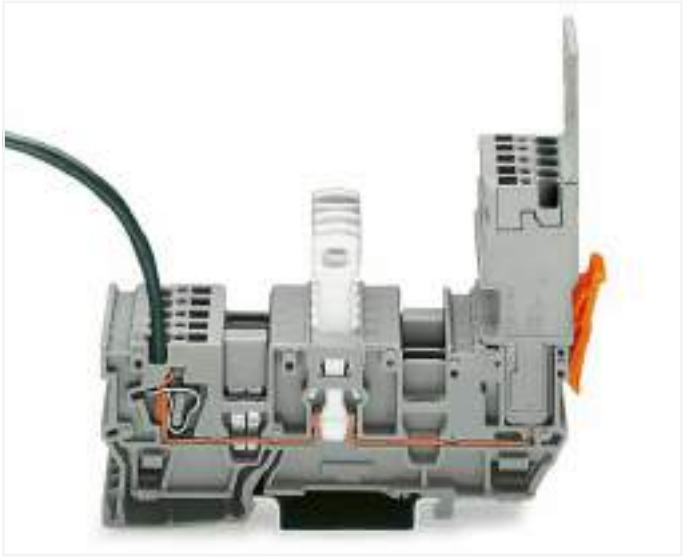


LED carrier terminal block

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks X-COM®-SYSTEM; with Two Jumper Positions and 1-/2-Conductor Female Plugs

Assembly Types



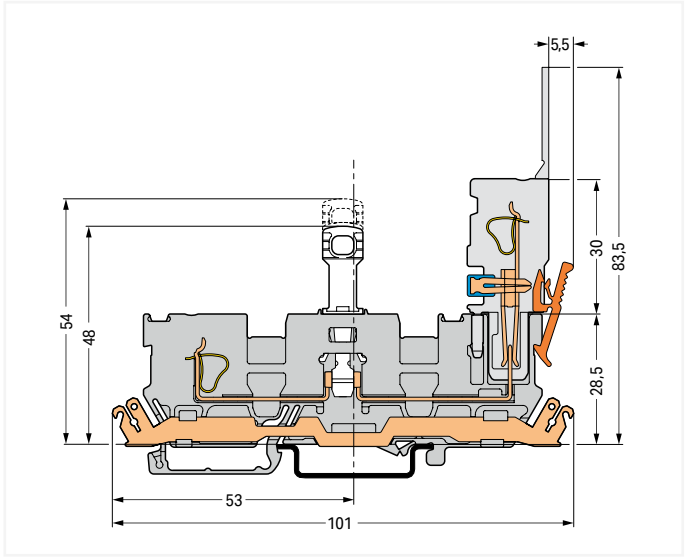
1-conductor female plug
Disconnect carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



2-conductor female plug
Disconnect carrier terminal blocks can be commoned via 280 and 780 Series Jumpers.



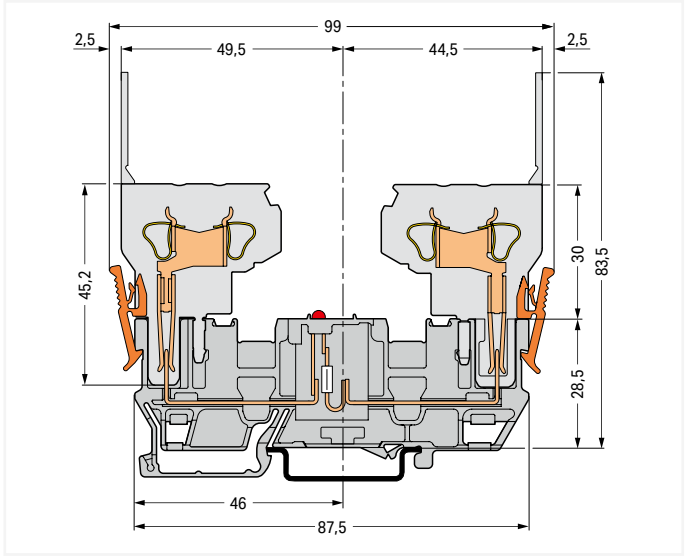
2-conductor female plug
Diode carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Disconnect carrier terminal block; with shield contact



2-conductor and 1-conductor female plugs (may be reversed)
LED carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



LED carrier terminal block

CAGE CLAMP®

1-Conductor/1-Conductor Pin Disconnect Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V / 4 kV / 3 = Nominal voltage with shield contact (see Section 15)

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 422
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

1-conductor/1-conductor pin disconnect carrier terminal block; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-242	50

1-conductor/1-conductor disconnect carrier terminal block; with shield contact

gray	769-243 ❶	50

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-318	100 (25)
gray	769-317	100 (25)

Separator plate; oversized; 1.1 mm thick



orange	769-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



gray	280-409	100 (25)

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)



red	709-170	200 (25)

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

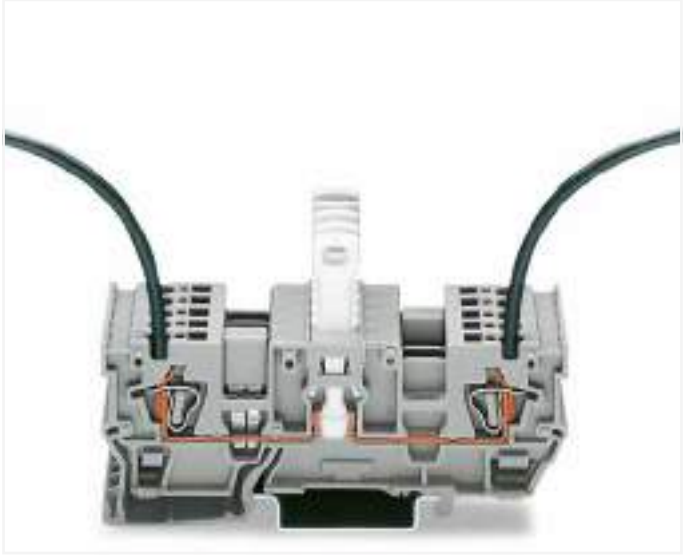
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

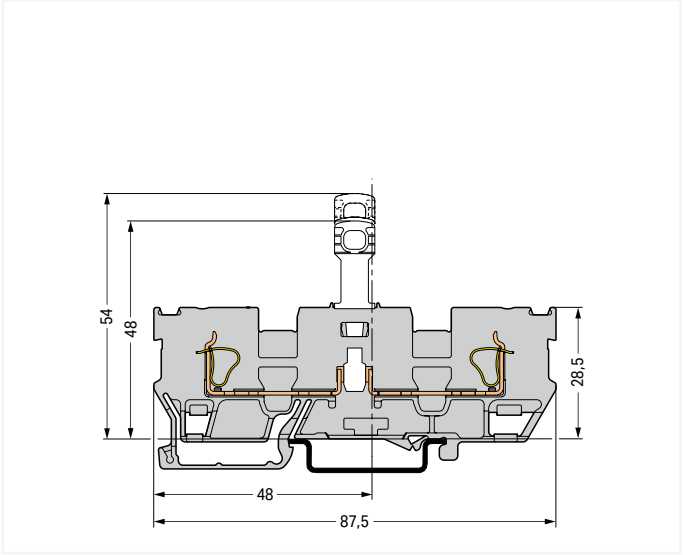
CAGE CLAMP®

1-Conductor/1-Conductor Pin Disconnect Carrier Terminal Blocks X-COM®-SYSTEM; with Two Jumper Positions

Assembly Types



Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Disconnect carrier terminal block

7

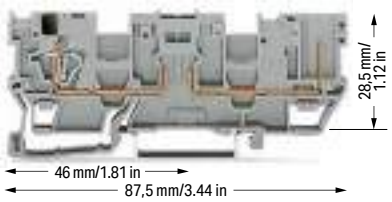
CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Block and Carrier Terminal Block X-COM®-SYSTEM; for Pluggable Module (Fuses, Relays, Optocouplers, etc.)

4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	





1-conductor/1-pin carrier terminal block; with two jumper positions; gray

	Item No.	Pack. Unit
2-pole	769-181	50

1-conductor/1-pin terminal block for pluggable modules; with two jumper positions; with orange separator plate; gray

	Item No.	Pack. Unit
4-pole; 11.1 mm wide	769-182/769-314	10
6-pole; 16.1 mm wide	769-183/769-314	5
8-pole; 21.1 mm wide	769-184/769-314	5
10-pole; 26.1 mm wide	769-185/769-314	5

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



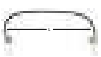
gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide



gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide



gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 422
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Test plug adapter; 5 mm wide; for 1.5 … 4 mm² terminal blocks



gray	280-404	100 (25)

1-connector female plug; straight



gray	769-101	200

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

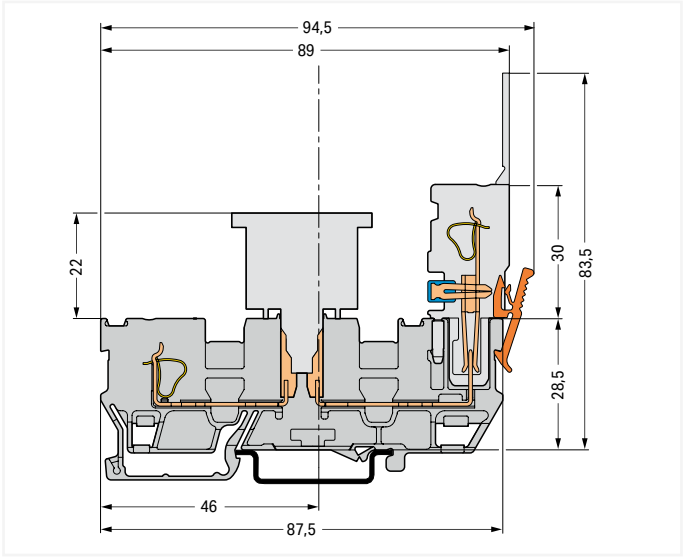
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

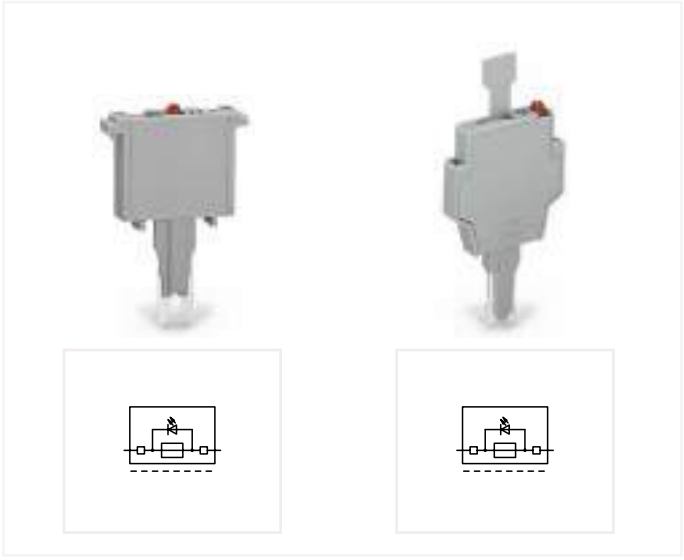
7

CAGE CLAMP®

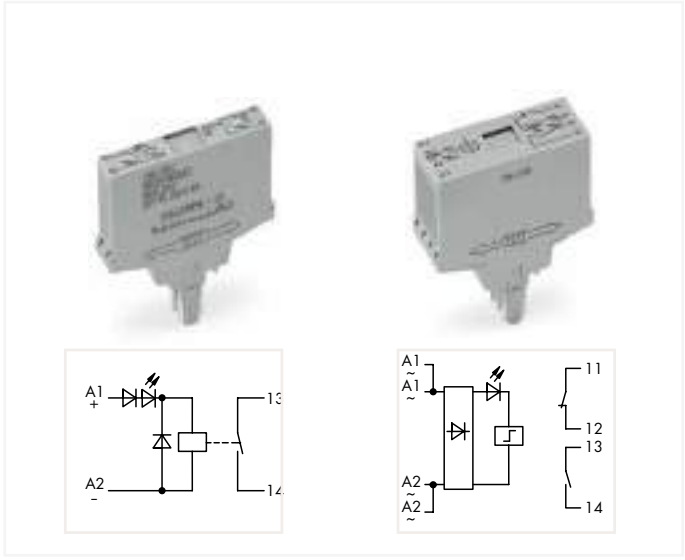
1-Conductor Female Plugs and Selection of Pluggable Modules X-COM®-SYSTEM
Assembly Types



Carrier terminal block



Selection of pluggable modules



Selection of pluggable modules

7

2-Pin Carrier Terminal Block and Carrier Terminal Block X-COM®-SYSTEM; for Pluggable Module (Fuses, Relays, Optocouplers, etc.)

769 Series

Technical Data	
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	

Technical Data	
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

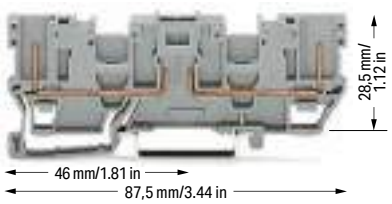
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

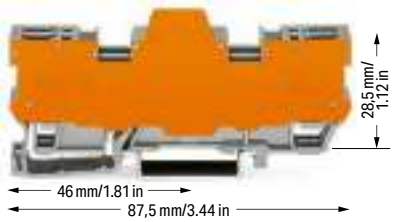
❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Jumpers, from page 426
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com





2-pin carrier terminal block; with two jumper positions; gray	Item No.	Pack. Unit
2-pole	769-161	50

2-pin terminal block for pluggable modules; with two jumper positions; with orange separator plate; gray	Item No.	Pack. Unit
4-pole; 11.1 mm wide	769-162/769-313	10
6-pole; 16.1 mm wide	769-163/769-313	5
8-pole; 21.1 mm wide	769-164/769-313	5
10-pole; 26.1 mm wide	769-165/769-313	5

7

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick			
	orange	769-310	100 (25)
	gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick			
	orange	769-313	100 (25)

Coding pin; for coding female plugs			
	orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block			
	gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A			
	1 to 2	780-452	100 (25)
	1 to 3	780-453	100 (25)
	1 to 4	780-454	100 (25)
	1 to 5	780-455	50 (25)
	1 to 6	780-456	50 (25)
	1 to 7	780-457	50 (25)
	1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A			
	L = 60 mm	249-125	100 (10)
	L = 110 mm	249-126	100 (10)
	L = 250 mm	249-127	100 (10)

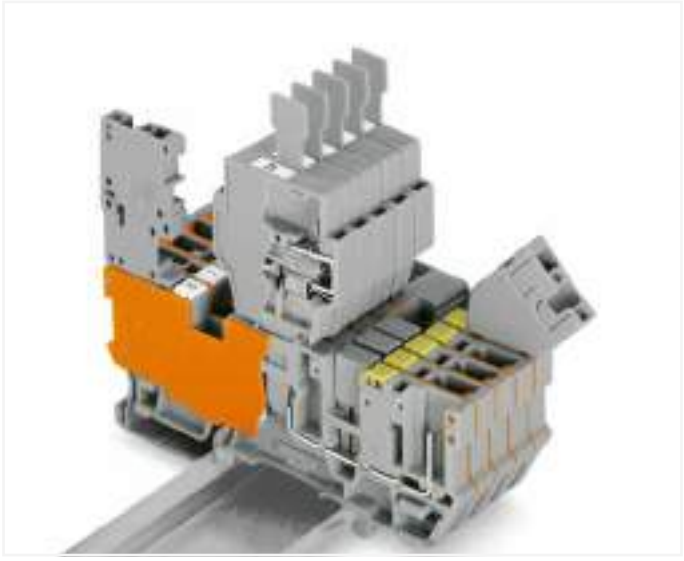
1-connector female plug; straight			
	gray	769-101	200

1-conductor female plug; angled			
	gray	769-101/022-000	200

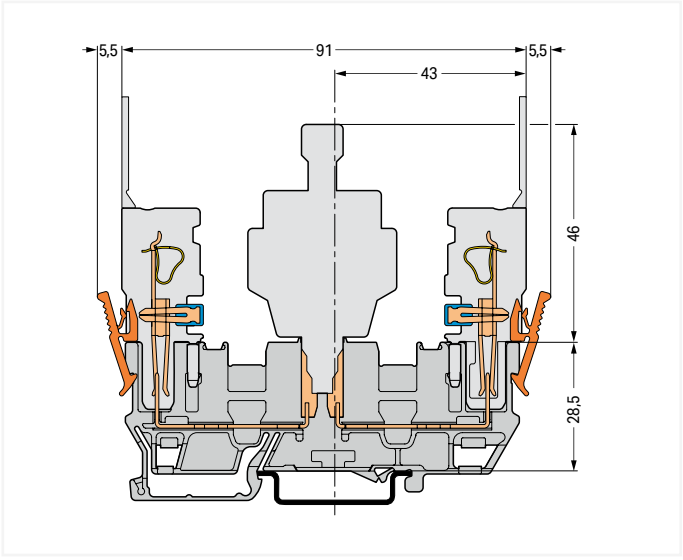
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable			
	white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers			
	plain	248-501	5

1-Conductor Female Plugs and Selection of Pluggable Modules X-COM®-SYSTEM
Assembly Types



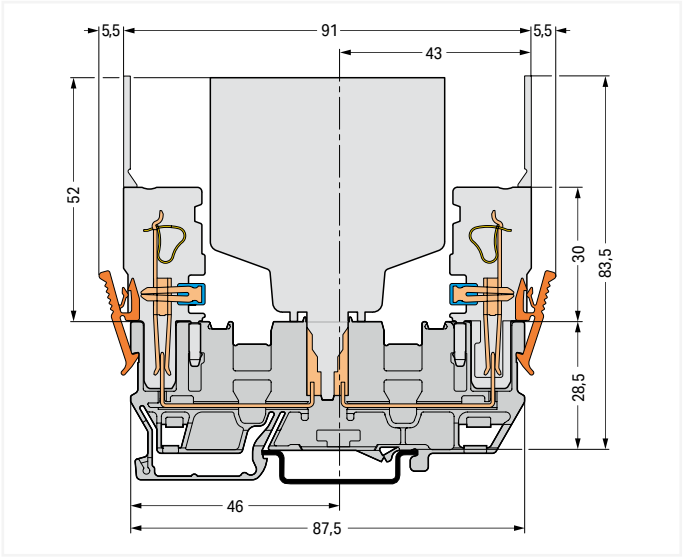
With 6 mm wide fuse plugs, only 1-pole female plugs can be used. Commoning is only possible using adjacent jumpers (280 Series) and push-in type wire jumpers.



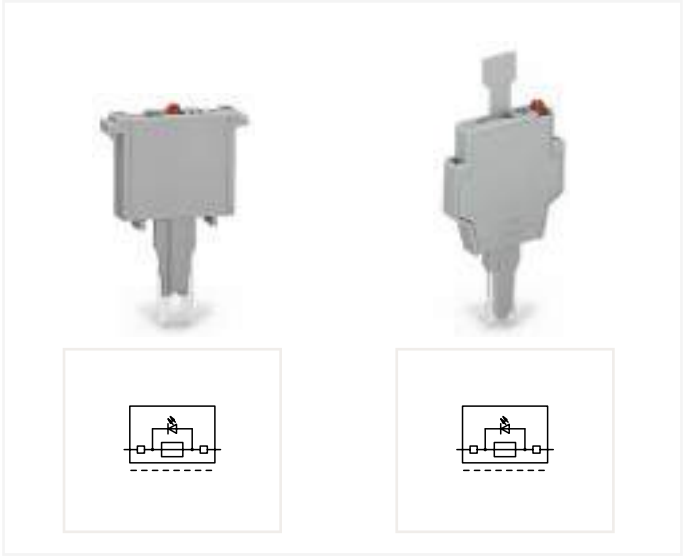
Carrier terminal block
For other dimensions, see carrier terminal block (769-151).



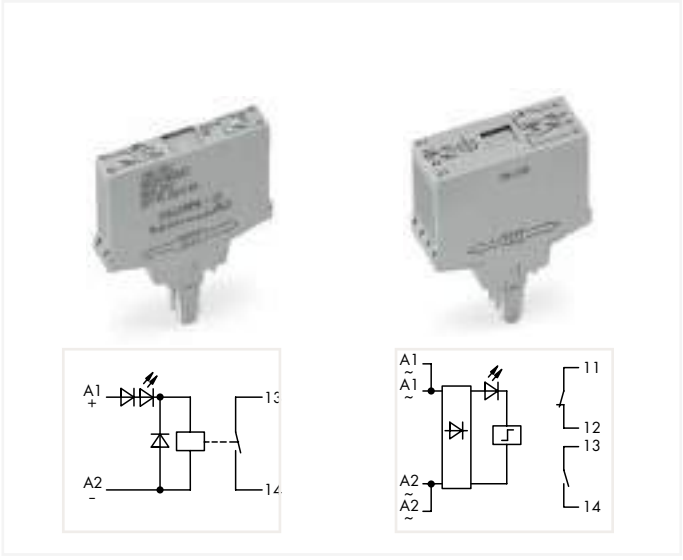
2-pin terminal block for pluggable modules; with orange separator plate



Carrier terminal block



Selection of pluggable modules



Selection of pluggable modules

CAGE CLAMP®

1-Conductor/1-Conductor Carrier Terminal Block and Carrier Terminal Block X-COM®-SYSTEM; for Pluggable Module (Fuses, Relays, Optocouplers, etc.)

4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

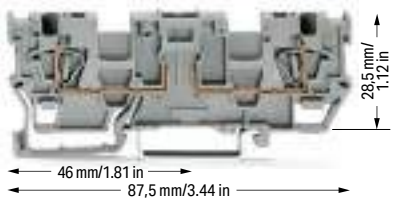
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V / 6 kV / 3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

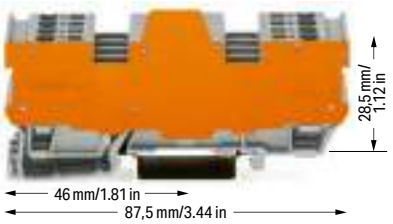
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Testing accessories, from page 422
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com





1-conductor/1-conductor carrier terminal block; with two jumper positions; gray

	Item No.	Pack. Unit
2-pole	769-191	50

1-conductor/1-conductor terminal block for pluggable modules; with two jumper positions; with orange separator plate; gray

	Item No.	Pack. Unit
4-pole; 11.1 mm wide	769-192/769-319	10
6-pole; 16.1 mm wide	769-193/769-319	5
8-pole; 21.1 mm wide	769-194/769-319	5
10-pole; 26.1 mm wide	769-195/769-319	5

7

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick



orange	769-318	100 (25)
gray	769-317	100 (25)

Separator; oversized; 1.1 mm thick



orange	769-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block



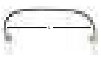
gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



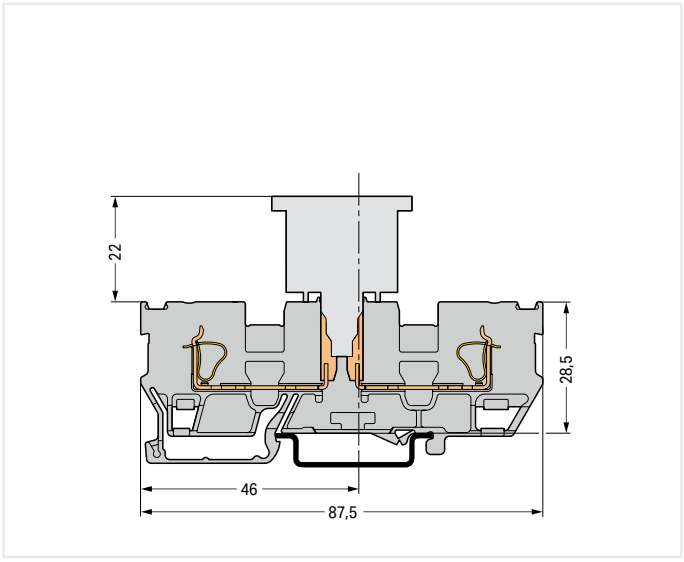
white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

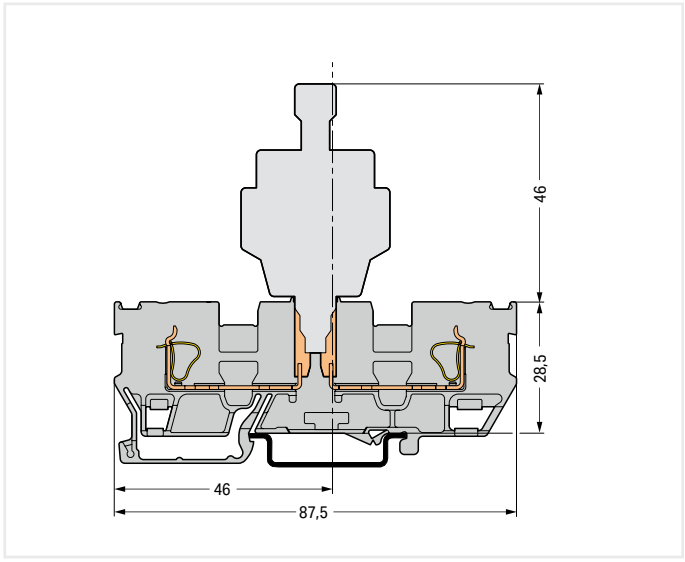
plain	248-501	6

CAGE CLAMP®

Selection of Pluggable Modules
Assembly Types



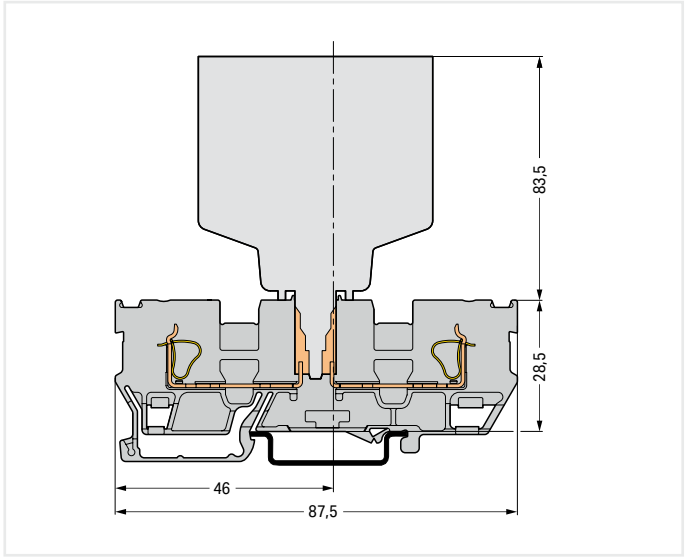
Carrier terminal block



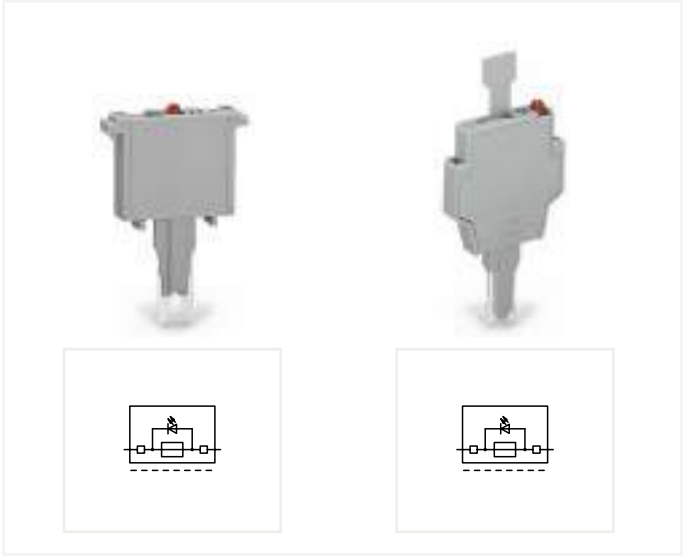
Carrier terminal block



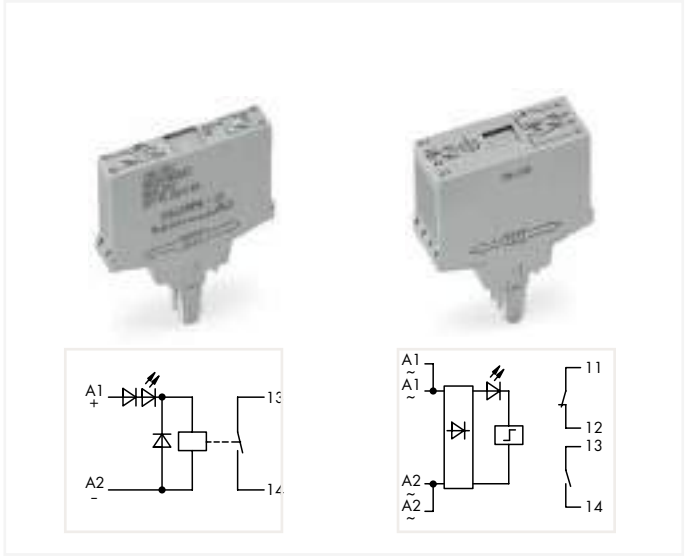
1-conductor/1-conductor carrier terminal block; with two jumper positions



Carrier terminal block



Selection of pluggable modules



Selection of pluggable modules

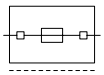
Fuse Plugs, Pluggable Diode and LED Modules





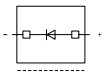


Fuse plug; with soldered miniature fuse; 5 mm wide; gray
Electrical ratings are given by the fuse.



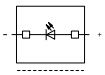
	Item No.	Pack. Unit
250 mA FF	280-850	100
500 mA FF	280-852	100
1 A FF	280-854	100
2 A FF	280-856	100

Diode module; with 1N4007 diode; 5 mm wide



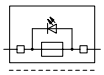
	Item No.	Pack. Unit
gray	280-801/281-411	100

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray



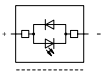
	Item No.	Pack. Unit
24 VDC	280-801/281-413	100
48 VDC	280-801/281-414	100

Fuse plug; with soldered miniature fuse; with additional indicator lamp; red LED; 15 … 30 VDC; 5 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA



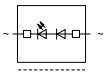
250 mA FF	280-850/281-413	100
500 mA FF	280-852/281-413	100
1 A FF	280-854/281-413	100
2 A FF	280-856/281-413	100

Diode module; with 1N4007 recovery diode; red LED; 5 mm wide; gray



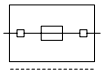
24 VDC	280-801/281-420	100
48 VDC	280-801/281-421	100

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray



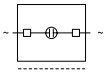
24 VAC/DC	280-801/281-415	100
48 VAC/VDC	280-801/281-416	100

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; 6 mm wide
Electrical ratings are given by the fuse.



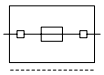
	281-511	50

Neon indicator module; 5 mm wide; I_N 0.5 mA; gray



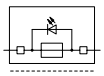
120 VAC/VDC	280-801/281-418	100
230 VAC/VDC	280-801/281-417	100

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with hole for one LED (for self-assembly); 6 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication.



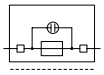
	281-512	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with LED; 24 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA



	281-512/281-501	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 120 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

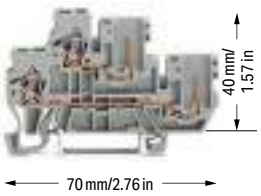


	281-512/281-418	50
	281-512/281-417	50

CAGE CLAMP®

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
L/L	870-101	50
N/L	870-102	50
L/N	870-103	50

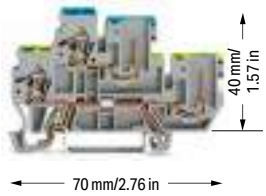
1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; blue

	Item No.	Pack. Unit
N/N	870-104	50

Other terminal blocks with the same profile:

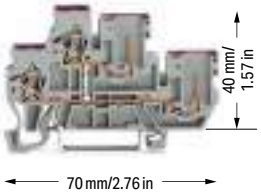
Through	870-501	Page 432

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; gray

	Item No.	Pack. Unit
PE/N	870-117	50
PE/L	870-127	50

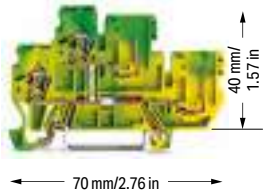


2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-108	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; internally commoned; Violet conductor entry; blue

	Item No.	Pack. Unit
N	870-109	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	870-107	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick



orange	870-119	100 (25)
gray	870-118	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

CAGE CLAMP®

1-Conductor/1-Pin Double-Deck Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM

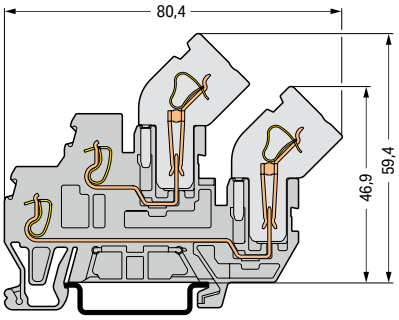
Assembly Types



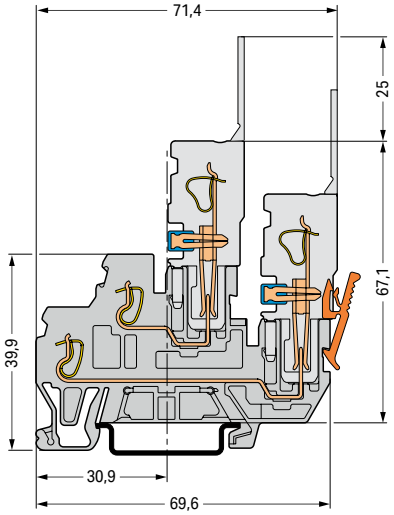
Commoning a double-deck through terminal block (870-501) with a 1-conductor/1-pin double-deck terminal block (870-101) via push-in type jumper bar.



1-conductor female plug; angled
Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.



Carrier terminal block



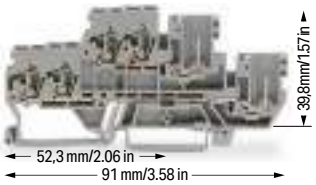
Carrier terminal block

7

CAGE CLAMP®

2-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



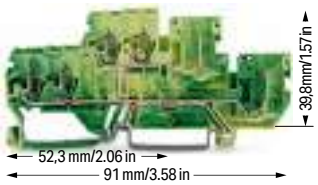
2-conductor/1-pin double-deck carrier terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
L/L	870-1131	40

4-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-1138	40

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



4-conductor/2-pin double-deck carrier block; 4-conductor/2-pin ground conductor block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE/N	870-1137	40

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick



orange	870-1149	100 (25)
gray	870-1148	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

7

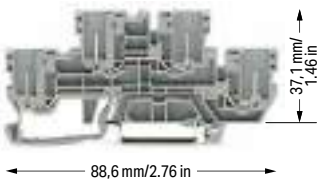
2-Pin/2-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
870 Series

Technical Data

500 V / 6 kV / 3 ❶ | 300 V, 20 A

I_N 16 A

Terminal block width: 5 mm / 0.197 inch



2-pin/2-pin double-deck carrier terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
L/L	870-151	50

Technical Data

Terminal block width: 5 mm / 0.197 inch



4-pin double-deck carrier block; 4-pin ground conductor block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	870-157	50



4-pin double-deck carrier terminal block; 4-pin through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-158	50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Note: 2-conductor female plugs cannot be used.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick



orange	870-169	100 (25)
gray	870-168	100 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight



gray	769-101	200

1-conductor female plug; angled



gray	769-101/022-000	200

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

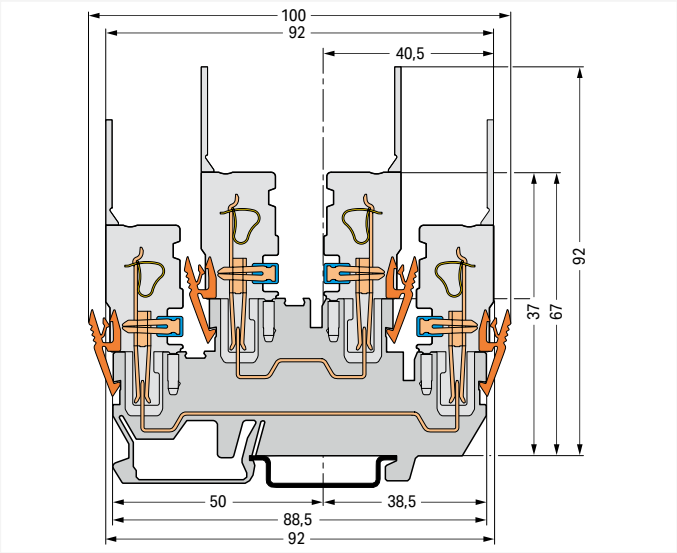
7

2-Pin/2-Pin Double-Deck Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

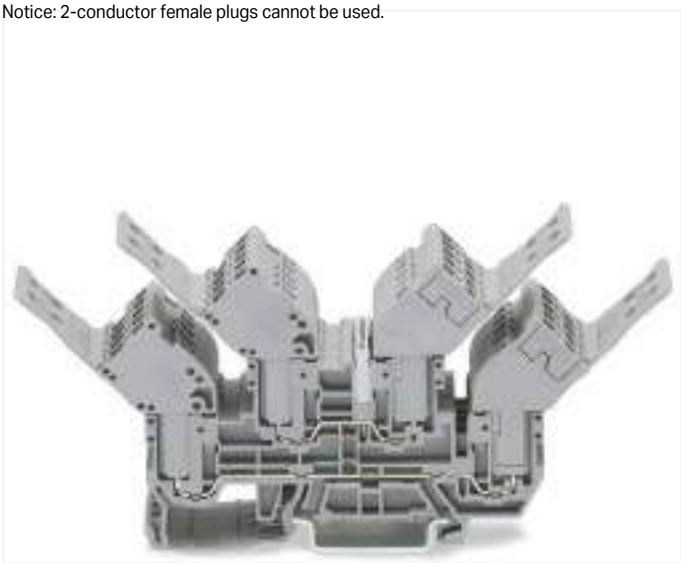
Assembly Types



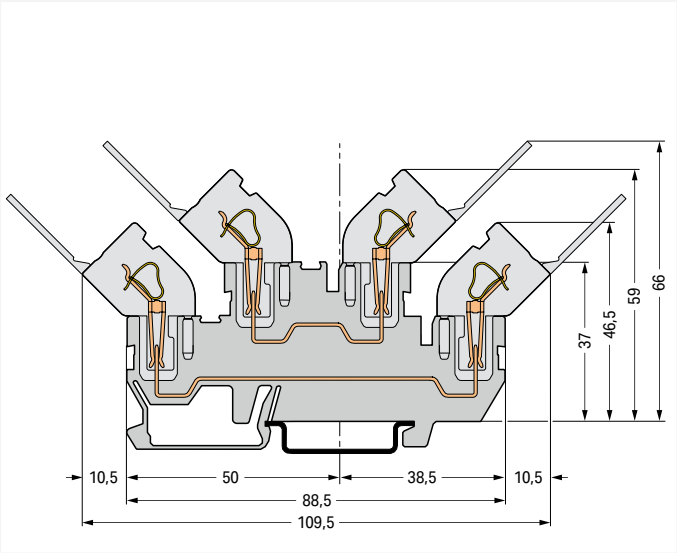
1-connector female plug; straight
Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.
Notice: 2-conductor female plugs cannot be used.



Carrier terminal block



1-conductor female plug; angled
Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.



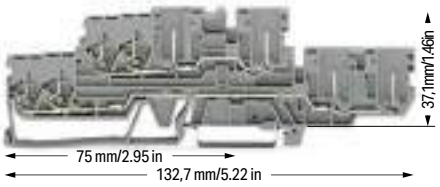
Carrier terminal block

7

CAGE CLAMP®

2-Conductor/2-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
2.5 (4 “f-st”) mm²; 870 Series

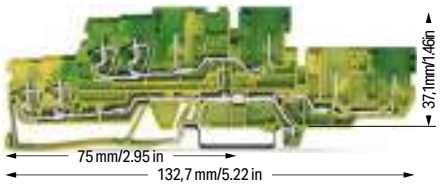
Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



2-conductor/2-pin double-deck carrier terminal block; through/through terminal block; gray

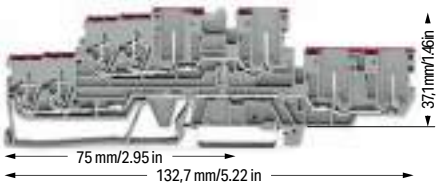
	Item No.	Pack. Unit
L/L	870-131	40

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



4-conductor/4-pin double-deck carrier block; 4-conductor/4-pin ground conductor block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	870-137	40



4-conductor/4-pin double-deck carrier terminal block; 4-conductor/4-pin through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-138	40

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Note: 2- and 1-conductor angled female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick



orange	870-149	100 (25)
gray	870-148	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Coding pin; for coding female plugs



orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot



gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

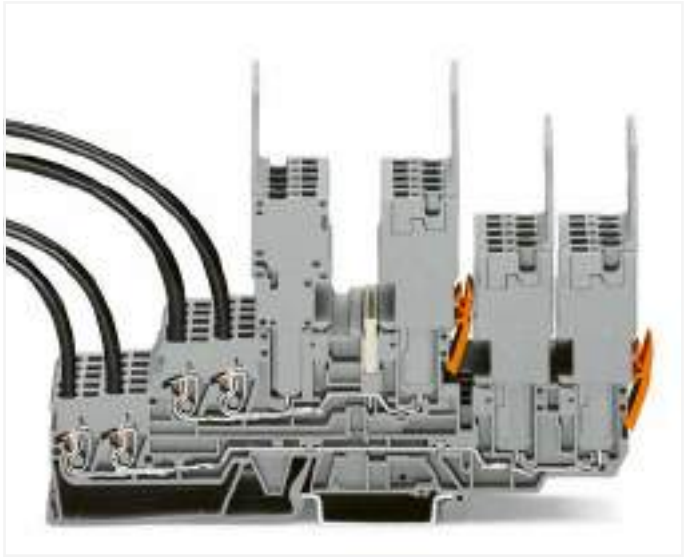


gray	769-101	200

CAGE CLAMP®

2-Conductor/2-Pin Double-Deck Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

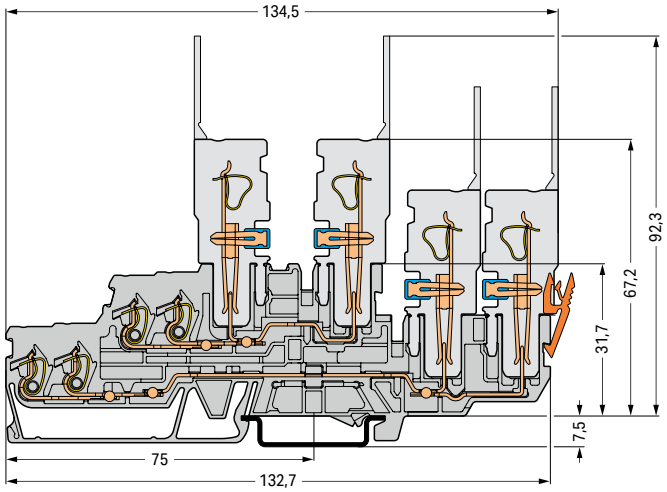
Assembly Types



1-connector female plug; straight

Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.

Notice: Female plugs must be arranged in the opposite direction on the upper deck.
2-conductor female plugs and angled 1-conductor female plugs cannot be used.



Carrier terminal block

Male Connectors, Headers and Female Plugs X-COM®-SYSTEM
769 Series
Description and Installation



Male connector; with CAGE CLAMP® connection
1-connector female plug; straight



Male connector; with CAGE CLAMP® connection and snap-in mounting feet
1-connector female plug; straight



Male connector; with CAGE CLAMP® and mounting flanges
1-connector female plug; straight



Insert a male connector with snap-in flanges (769-604/005-000) into the cutout.



Male connector; with snap-in flanges
Tool-free assembly



Male connector; with snap-in flanges
Tool-free assembly



Operating tool
Inserting a conductor – side-entry wiring (example shows a female plug).
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Operating tool
Inserting a conductor via operating tool (example shows a male connector).



Operating lever
Conductor termination – side-entry wiring (example shows a female plug)



Strain relief plates can be snapped into both male connector and female plug.



Labeling a male connector with CAGE CLAMP® connection via Mini-WSB Quick Markers.



Labeling a female plug with CAGE CLAMP® connection via Mini-WSB Quick Markers.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



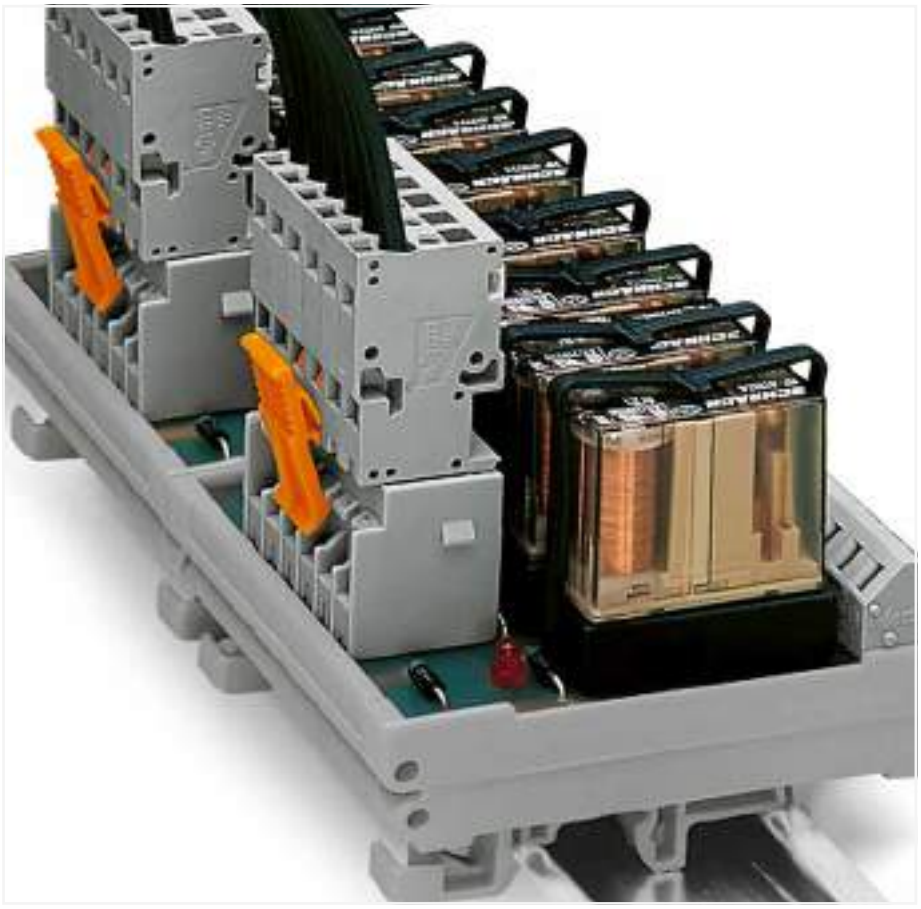
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.



Locking/releasing a lever.



Commoning a 1-conductor female plug via miniature adjacent jumpers.



Note: Female plugs used according to the regulations must not be connected/disconnected when live or under load.



Male header and 1-conductor female plug; with lateral locking levers



Male header; with solder pins for PCBs



Pluggable PCB connection
Connection to a relay module inside the control cabinet



Male header; with straight solder pins and 1-conductor female plug (picture shows a relay module)



Male header; with solder pins
Integrating PCB components into the system wiring.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



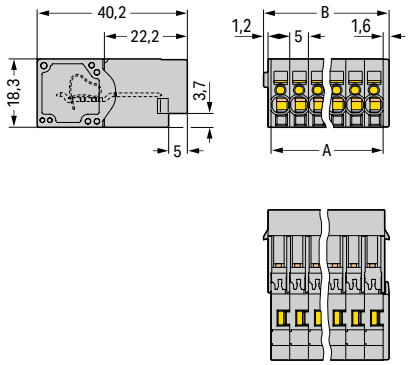
fine-stranded,
with pin terminal
(gastight crimped)

Male Connector X-COM®-SYSTEM; with CAGE CLAMP® Connection; 5 mm Pin Spacing
4 mm²; 769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



B = A + 3.6 mm
A = pole no. x pin spacing

Male connector; with CAGE CLAMP® connection; for flying leads; gray

Pole No.	Item No.	Pack. Unit
2	769-602	100
3	769-603	100
4	769-604	100
5	769-605	50
6	769-606	50
7	769-607	25
8	769-608	25
9	769-609	25
10	769-610	25
11	769-611	25
12	769-612	25
13	769-613	25
14	769-614	15
15	769-615	10

Accessories; item-specific

Strain relief plate; gray

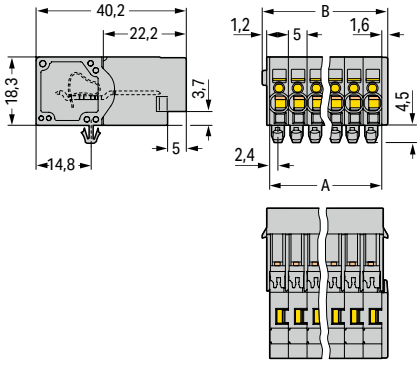


2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)
6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



B = A + 3.6 mm
A = pole no. x pin spacing

Male connector; with CAGE CLAMP® connection and snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm Ø mounting holes; with mounting adapter (209-137) for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	769-602/001-000	100
3	769-603/001-000	100
4	769-604/001-000	50
5	769-605/001-000	50
6	769-606/001-000	50
7	769-607/001-000	25
8	769-608/001-000	25
9	769-609/001-000	25
10	769-610/001-000	25
11	769-611/001-000	25
12	769-612/001-000	25
13	769-613/001-000	15
14	769-614/001-000	15
15	769-615/001-000	20

Accessories; item-specific

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

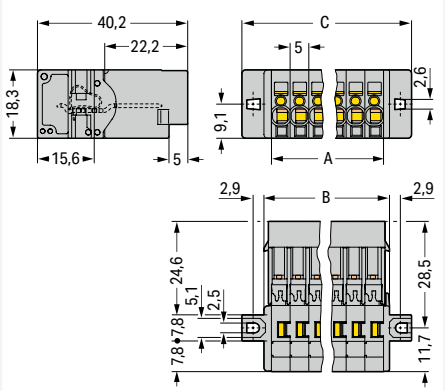


gray	209-137	25

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



C = A + 15.4 mm
B = A + 3.6 mm
A = pole no. x pin spacing

Male connector; with CAGE CLAMP® connection and mounting flanges; for screw or similar mounting types; for vertical or horizontal mounting; gray

Pole No.	Item No.	Pack. Unit
2	769-602/002-000	100
3	769-603/002-000	50
4	769-604/002-000	50
5	769-605/002-000	50
6	769-606/002-000	50
7	769-607/002-000	25
8	769-608/002-000	25
9	769-609/002-000	25
10	769-610/002-000	25
11	769-611/002-000	25
12	769-612/002-000	25
13	769-613/002-000	15
14	769-614/002-000	10
15	769-615/002-000	20

Accessories; item-specific

Mounting screw (M2.5 x 16) and hexagon nut (M2.5)

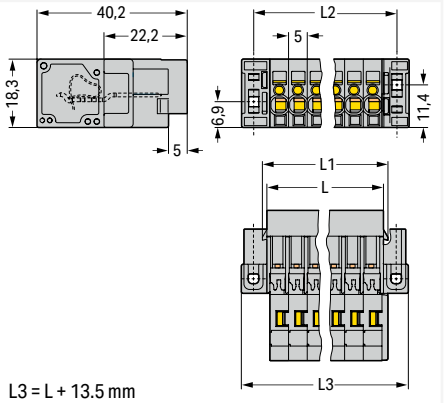


	769-499	100 (25)

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



L3 = L + 13.5 mm
L2 = L + 7 mm
L1 = L + 2.4 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Male connector; with CAGE CLAMP® connection and feedthrough flanges; for screw or similar mounting types; for vertical or horizontal mounting; gray

Pole No.	Item No.	Pack. Unit
2	769-602/004-000	100
3	769-603/004-000	50
4	769-604/004-000	25
5	769-605/004-000	25
6	769-606/004-000	25
7	769-607/004-000	25
8	769-608/004-000	25
9	769-609/004-000	25
10	769-610/004-000	25
11	769-611/004-000	25
12	769-612/004-000	15
13	769-613/004-000	15
14	769-614/004-000	10
15	769-615/004-000	10

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curve on page 456 and upon request

Approvals and corresponding ratings, visit www.wago.com

Accessories; for male connectors

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

1-connector female plug; straight



gray | 769-102 | 100

1-conductor female plug; with lateral locking levers



gray | 769-102/021-000 | 50

2-conductor female plug



gray | 769-122 | 50

Coding pin; for coding female plugs



orange | 769-435 | 100 (25)

Operating tool; for female plugs and male connectors with CAGE CLAMP® connection



210-490 | 1

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection



769-434 | 2000 (100)

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white | 2009-145 | 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain | 248-501 | 5



Male connector; with CAGE CLAMP® connection
1-connector female plug; straight



Labeling a male connector with CAGE CLAMP® connection via Mini-WSB Quick Markers.

7

CAGE CLAMP®

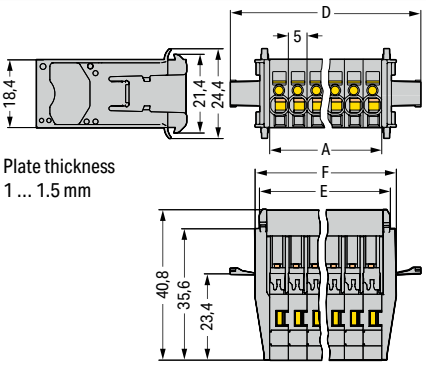
Male Connector X-COM®-SYSTEM; with CAGE CLAMP® Connection and Snap-In Flanges; 5 mm Pin Spacing

4 mm²; 769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



F = A + 8.1 mm
E = A + 4.9 mm
D = A + 21.3 mm
A = pole no. x pin spacing

Male connector; with CAGE CLAMP® connection and snap-in flanges; for flying leads; gray		
Pole No.	Item No.	Pack. Unit
2	769-602/005-000	50
3	769-603/005-000	25
4	769-604/005-000	25
5	769-605/005-000	25
6	769-606/005-000	25
7	769-607/005-000	25
8	769-608/005-000	20
9	769-609/005-000	20
10	769-610/005-000	20
11	769-611/005-000	15
12	769-612/005-000	15
13	769-613/005-000	15
14	769-614/005-000	10
15	769-615/005-000	10

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Approvals and corresponding ratings, visit www.wago.com

Accessories; for male connectors

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

1-connector female plug; straight



gray | 769-102 | 100

1-conductor female plug; with lateral locking levers



gray | 769-102/021-000 | 50

2-conductor female plug



gray | 769-122 | 50

Coding pin; for coding female plugs



orange | 769-435 | 100 (25)

Operating tool; for female plugs and male connectors with CAGE CLAMP® connection



210-490 | 1

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection



769-434 | 2000 (100)

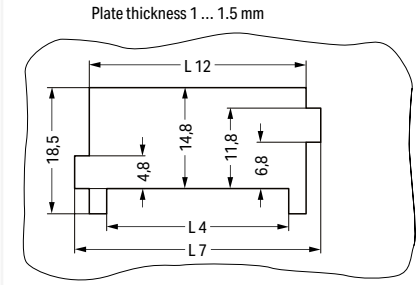
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white | 2009-145 | 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain | 248-501 | 5



L12 = pole no. x pin spacing + 6.8 mm
L4 = pole no. x pin spacing + 1.7 mm
L7 = L4 + 9.4 mm

Cutout
Male connector with CAGE CLAMP® connection (769-6xx/005-000) and snap-in flanges



Insert a male connector with snap-in flanges (769-604/005-000) into the cutout.



Male connector; with snap-in flanges
Tool-free assembly



Male connector; with snap-in flanges
Tool-free assembly

7

CAGE CLAMP®

Male Connector X-COM®-SYSTEM; with CAGE CLAMP® Connection and Snap-In Flanges; 5 mm Pin Spacing

4 mm²; 769 Series

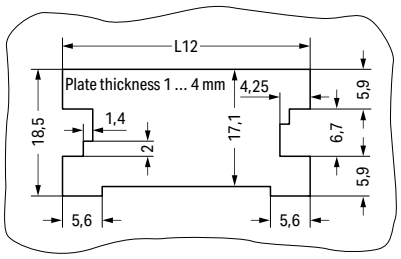
Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Approvals and corresponding ratings, visit www.wago.com

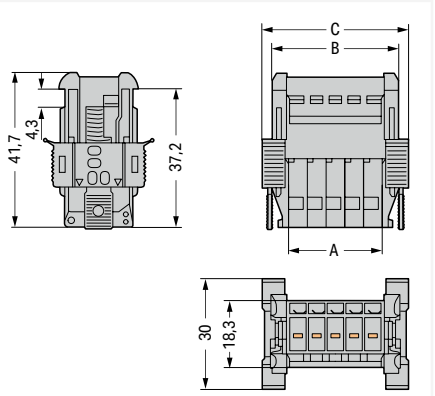




L12 = pole no. x pin spacing + 10.2 mm

Sheet metal cutout (for female connectors without locking levers)
Male connector with CAGE CLAMP® connection (769-6xx/006-000) and snap-in flanges

Dimensions (in mm)



C = A + 14.3 mm
B = A + 9.3 mm
A = pole no. x pin spacing



Insert a male connector with snap-in flanges (769-605/006-000) into the cutout.



Secure the snap-in flange.



For removal, insert operating tool (2.5 mm blade) into release slot.



Press center part on both the top and bottom of the connector. Then remove snap-in flange.

Male connector; with CAGE CLAMP® connection and snap-in flanges; for flying leads; gray		
Pole No.	Item No.	Pack. Unit
2	769-602/006-000	50
3	769-603/006-000	25
4	769-604/006-000	25
5	769-605/006-000	25
6	769-606/006-000	25
7	769-607/006-000	25
8	769-608/006-000	20
9	769-609/006-000	20
10	769-610/006-000	20
11	769-611/006-000	15
12	769-612/006-000	15
13	769-613/006-000	15
14	769-614/006-000	10
15	769-615/006-000	10

7

Male Header X-COM®-SYSTEM; with Solder Pins; 5 mm Pin Spacing
769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V / 4 kV / 3 ❶	300 V, 20 A
500 V / 4 kV / 2 ❶	300 V, 20 A
I_N 32 A ❷	

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V / 4 kV / 3 ❶	300 V, 20 A
500 V / 4 kV / 2 ❶	300 V, 20 A
I_N 32 A ❷	

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

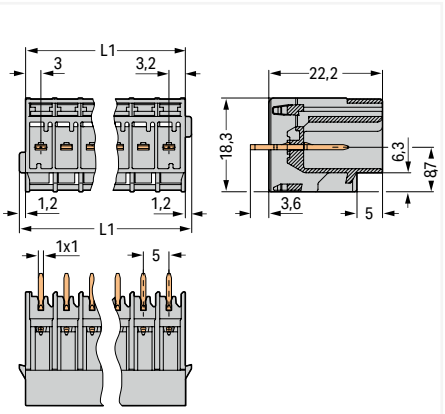
❷ Current-carrying capacity curve on page 457 and upon request

Approvals and corresponding ratings, visit www.wago.com



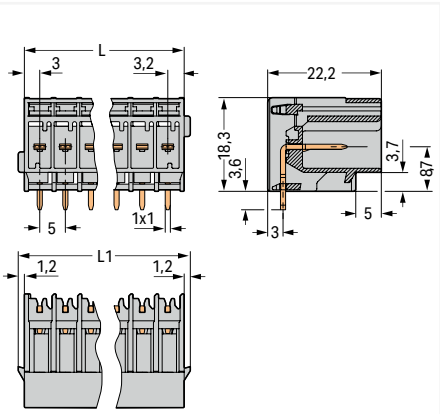


Dimensions (in mm)

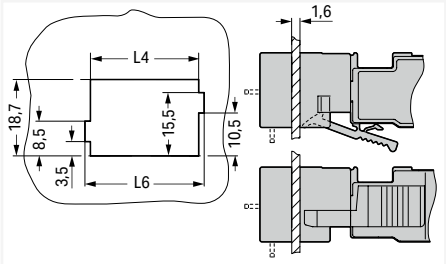


L1 = L + 2.4 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Dimensions (in mm)



L1 = L + 2.4 mm
L = (pole no. - 1) x pin spacing + 6.2 mm



L6 = L4 + 2.6 mm
L4 = pole no. x pin spacing + 1.7 mm

Cutout
Male header; with solder pins

Male header; with straight solder pins; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632	200
3	769-633	100
4	769-634	50
5	769-635	50
6	769-636	50
7	769-637	50
8	769-638	25
9	769-639	25
10	769-640	25
11	769-641	25
12	769-642	25
13	769-643	25
14	769-644	25
15	769-645	25

Male header; with angled solder pins; 1 x 1 mm; Horizontal mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-662	200
3	769-663	100
4	769-664	50
5	769-665	50
6	769-666	50
7	769-667	50
8	769-668	25
9	769-669	25
10	769-670	25
11	769-671	25
12	769-672	25
13	769-673	25
14	769-674	25
15	769-675	25



Male header; with angled solder pins

Male header; with preceding contact; with straight solder pins; 1 x 1 mm; Vertical mating direction to the PCB; gray

2	769-632/000-036	200
3	769-633/000-036	100
4	769-634/000-036	50
5	769-635/000-036	50

Accessories; for male connectors

1-connector female plug; straight



gray 769-102 100

1-conductor female plug; with lateral locking levers



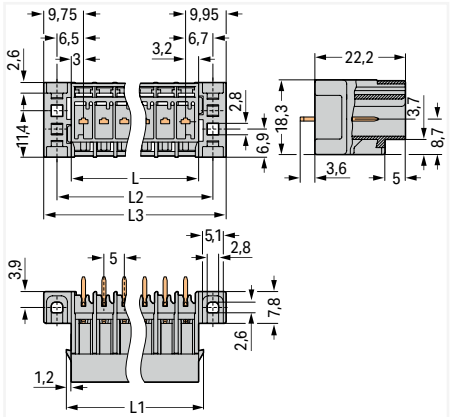
gray 769-102/021-000 50

Male Header X-COM®-SYSTEM; with Solder Pins and Mounting Flanges; 5 mm Pin Spacing
769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V / 4 kV / 3 ❶	300 V, 20 A
500 V / 4 kV / 2 ❶	300 V, 20 A
I_N 32 A ❷	



Dimensions (in mm)



L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Male header; with straight solder pins and mounting flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/003-000	200
3	769-633/003-000	100
4	769-634/003-000	50
5	769-635/003-000	50
6	769-636/003-000	25
7	769-637/003-000	25
8	769-638/003-000	25
9	769-639/003-000	25
10	769-640/003-000	25
11	769-641/003-000	25
12	769-642/003-000	25
13	769-643/003-000	15
14	769-644/003-000	15
15	769-645/003-000	15

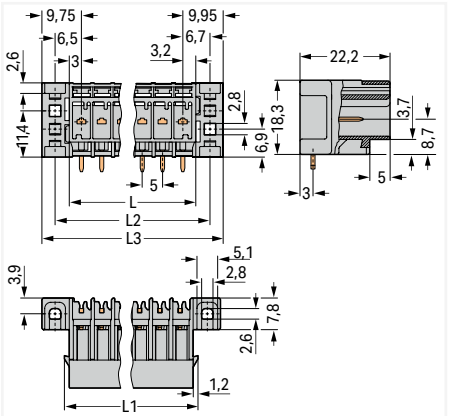
Male header; with preceding contact; with straight solder pins and mounting flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/003-036	200
3	769-633/003-036	100
4	769-634/003-036	50
5	769-635/003-036	50
6	769-636/003-036	25

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V / 4 kV / 3 ❶	300 V, 20 A
500 V / 4 kV / 2 ❶	300 V, 20 A
I_N 32 A ❷	



Dimensions (in mm)



L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Male header; with angled solder pins and mounting flanges; 1 x 1 mm; Horizontal mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-662/003-000	100
3	769-663/003-000	100
4	769-664/003-000	50
5	769-665/003-000	50
6	769-666/003-000	50
7	769-667/003-000	25
8	769-668/003-000	25
9	769-669/003-000	25
10	769-670/003-000	25
11	769-671/003-000	25
12	769-672/003-000	25
13	769-673/003-000	15
14	769-674/003-000	15
15	769-675/003-000	15

Accessories; for male connectors

1-connector female plug; straight



gray	769-102	100

1-conductor female plug; with lateral locking levers

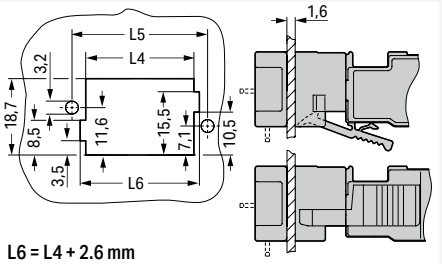


gray	769-102/021-000	50

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curve on page 457 and upon request

Approvals and corresponding ratings, visit www.wago.com



L6 = L4 + 2.6 mm
L5 = L5 + 6.6 mm
L4 = pole no. x pin spacing + 1.7 mm

Cutout
Male header; with solder pins and mounting flanges



Male header; with preceding contact; with straight solder pins and mounting flanges



Male header with mounting flanges
1-conductor female plug with bottom-mount locking levers



Male header and 1-conductor female plug with lateral locking levers

7

Male Header X-COM®-SYSTEM; with Solder Pins and Feedthrough Flanges; 5 mm Pin Spacing
769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V / 4 kV / 3 ❶	300 V, 20 A
500 V / 4 kV / 2 ❶	300 V, 20 A
I_N 32 A ❷	

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V / 4 kV / 3 ❶	300 V, 20 A
500 V / 4 kV / 2 ❶	300 V, 20 A
I_N 32 A ❷	

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

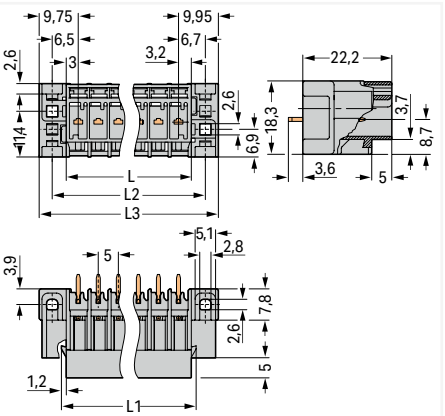
❷ Current-carrying capacity curve on page 457 and upon request

Approvals and corresponding ratings, visit www.wago.com



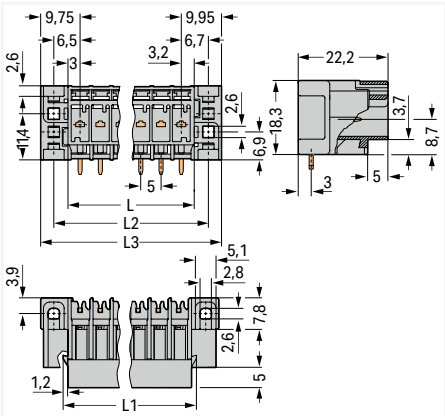


Dimensions (in mm)

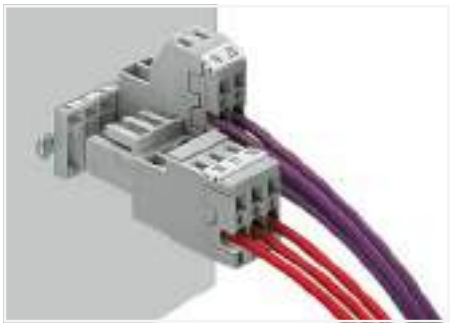


L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Dimensions (in mm)



L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm



Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug



Male header and 1-conductor female plug with lateral locking levers

Male header; with straight solder pins and feedthrough flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/004-000	200
3	769-633/004-000	50
4	769-634/004-000	50
5	769-635/004-000	50
6	769-636/004-000	50
7	769-637/004-000	25
8	769-638/004-000	25
9	769-639/004-000	25
10	769-640/004-000	25
11	769-641/004-000	25
12	769-642/004-000	25
13	769-643/004-000	15
14	769-644/004-000	15
15	769-645/004-000	15

Male header; with angled solder pins and feedthrough flanges; 1 x 1 mm; Horizontal mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-662/004-000	200
3	769-663/004-000	100
4	769-664/004-000	50
5	769-665/004-000	50
6	769-666/004-000	50
7	769-667/004-000	50
8	769-668/004-000	25
9	769-669/004-000	25
10	769-670/004-000	25
11	769-671/004-000	25
12	769-672/004-000	25
13	769-673/004-000	25
14	769-674/004-000	15
15	769-675/004-000	15

Accessories; for male connectors

1-connector female plug; straight



gray	769-102	100

1-conductor female plug; with lateral locking levers



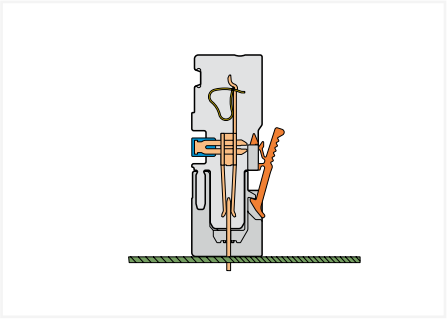
gray	769-102/021-000	50

Coding pin; for coding female plugs

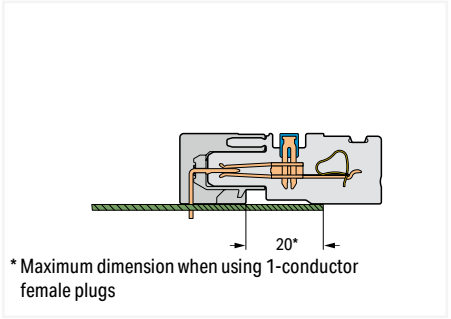


orange	769-435	100 (25)

Male Headers X-COM®-SYSTEM; with Solder Pins; with 1-/2-Conductor Female Plugs
Assembly Types

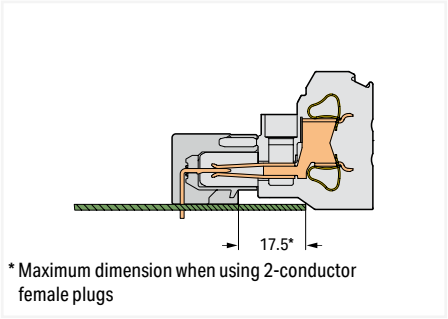


Male header; with straight solder pins



* Maximum dimension when using 1-conductor female plugs

Male header; with angled solder pins



* Maximum dimension when using 2-conductor female plugs

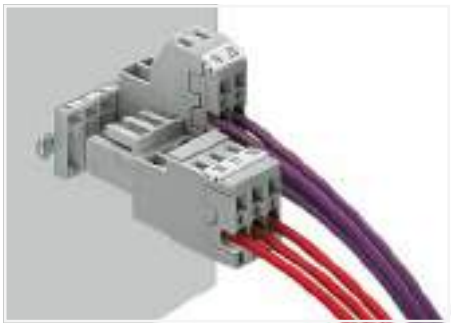
Male header; with angled solder pins



Male header; with mounting flanges
1-conductor female plug; with bottom-mount locking levers



Male header; with mounting flanges
1-conductor female plug; with lateral locking levers

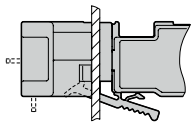


Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug

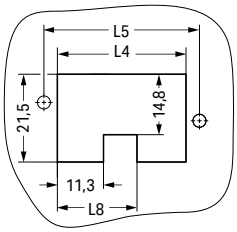
7

Cutouts for headers with fixing flanges for feedthrough applications and locking levers

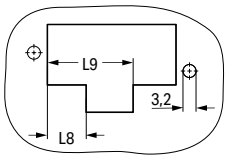
Female plugs with **bottom-mounted** locking levers



Cutouts for
2-pole locking levers
(2- to 15-pole female plugs)

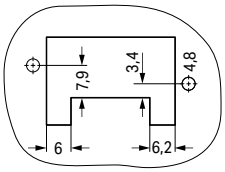


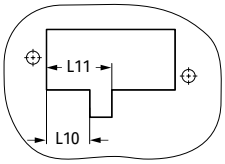
Layout for locking levers outer . . .



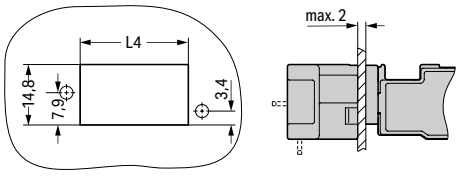
. . . inner

Cutouts for
single pole locking levers

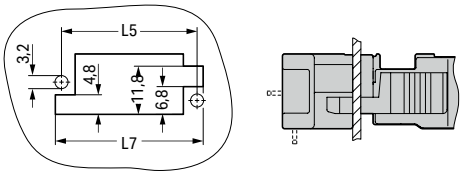




Female plug **without** locking levers



Female plug with **lateral** locking levers



L 4 = pole no. x pin spacing + 1.7 mm
L 5 = L4 + 6.6 mm
L 7 = L4 + 9.4 mm
L 8 = pole no. LL x pin spacing - 0.3 mm
L 9 = L8 + 11.6 mm
L10 = pole no. LL x pin spacing + 0.6 mm
L11 = L10 + 5.4 mm
Pole no. LL: Number of poles ahead of the poles attached to the locking lever
LL = locking lever

Male Header X-COM®-SYSTEM; with Solder Pins and Rivet Mounting Flanges; 5 mm Pin Spacing
769 Series

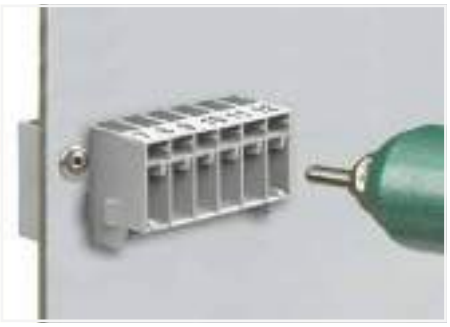
Technical Data
Pin spacing: 5 mm / 0.197 inch
250 V / 4 kV / 3 ❶
500 V / 4 kV / 2 ❶
I_N 32 A ❷



❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

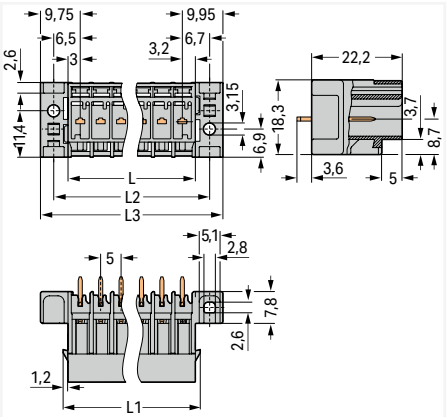
❷ Current-carrying capacity curves upon request

Approvals and corresponding ratings,
visit www.wago.com



Mounting with 3 mm Ø blind rivets

Dimensions (in mm)



L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Male header; with straight solder pins and rivet mounting flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/007-000	200
3	769-633/007-000	50
4	769-634/007-000	50
5	769-635/007-000	50
6	769-636/007-000	50
7	769-637/007-000	25
8	769-638/007-000	25
9	769-639/007-000	25
10	769-640/007-000	25
11	769-641/007-000	25
12	769-642/007-000	25
13	769-643/007-000	15
14	769-644/007-000	15
15	769-645/007-000	15

Accessories; for male connectors

1-connector female plug; straight



gray 769-102 100

1-conductor female plug; with lateral locking levers



gray 769-102/021-000 50

Coding pin; for coding female plugs



orange 769-435 100 (25)

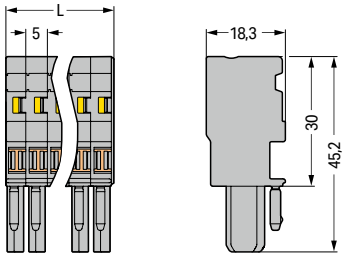
CAGE CLAMP®

1-Conductor Female Plug X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



L = pole no. x module width

1-conductor female plug; straight; fits into carrier terminal blocks or male connectors; with coding fingers; can be commoned with miniature adjacent jumpers; gray

Pole No.	Item No.	Pack. Unit
1	769-101	200
2	769-102	100
3	769-103	50
4	769-104	50
5	769-105	50
6	769-106	25
7	769-107	25
8	769-108	25
9	769-109	25
10	769-110	25
11	769-111	20
12	769-112	20
13	769-113	10
14	769-114	10
15	769-115	10

1-conductor female plug; straight; fits into carrier terminal blocks or male connectors; with coding fingers; can be commoned with miniature adjacent jumpers

1 blue	769-101/000-006	200
1 green-yellow	769-101/000-016	200

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curve from page 453 and upon request

Item no. suffixes
blue …/000-006

Snap-on type strain relief housing, see page 452

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white 769-470 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray 769-471 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray 769-472 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 280-415 100 (25)

Adjacent jumper; insulated; I_N 24 A



gray 769-402 100 (25)

Jumper cover; for 1-conductor female plugs; for 5 poles



gray 769-436 100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection



769-434 2000 (100)

Locking Lever; for 1-pole female plugs



gray 769-428 100 (25)
orange 769-429 100 (25)

Locking lever; for female plugs with 2 poles and more



gray 769-431 100 (25)
orange 769-430 100 (25)

Strain relief plate; gray



1-pole 769-410 100 (25)
2- … 3-pole 769-411 100 (25)
4- … 5-pole 769-412 100 (25)

Strain relief plate; gray



6- … 9-pole 769-413 100 (25)
10- … 15-pole 769-414 100 (25)

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Snap-on type strain relief housing; consists of strain relief support and housing



5-pole 769-1605 25

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-145 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5



1-pole female plug
Application examples:
- Phase selection in three-phase network
- Test plug with rated current capability
- Simplified circuit expansion – addition of base circuits requires only female plugs to be plugged in



Jumper cover for 1-conductor female plugs

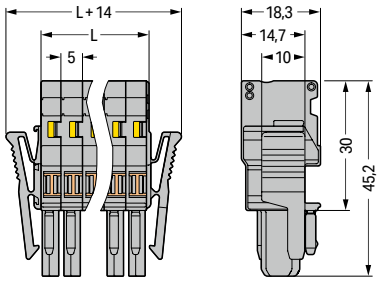
CAGE CLAMP®

1-Conductor Female Plug X-COM®-SYSTEM; with Lateral Locking Levers
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



L = (pole no. x module width) + 1 mm

1-conductor female plug; with lateral locking levers; only compatible with male connectors; codable; can be commoned with miniature adjacent jumpers; gray

Pole No.	Item No.	Pack. Unit
2	769-102/021-000	200
3	769-103/021-000	50
4	769-104/021-000	50
5	769-105/021-000	50
6	769-106/021-000	50
7	769-107/021-000	25
8	769-108/021-000	25
9	769-109/021-000	25
10	769-110/021-000	25
11	769-111/021-000	25
12	769-112/021-000	25
13	769-113/021-000	15
14	769-114/021-000	15
15	769-115/021-000	15

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curve from page 455 and upon request

Snap-on type strain relief housing, see page 452

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white 769-470 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray 769-471 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray 769-472 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 280-415 100 (25)

Adjacent jumper; insulated; I_N 24 A



gray 769-402 100 (25)

Jumper cover; for 1-conductor female plugs; for 5 poles



gray 769-436 100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection



769-434 2000 (100)

Strain relief plate; gray



2- … 3-pole 769-411 100 (25)
4- … 5-pole 769-412 100 (25)

Strain relief plate; gray



6- … 9-pole 769-413 100 (25)
10- … 15-pole 769-414 100 (25)

Snap-on type strain relief housing; consists of strain relief support and housing



5-pole 769-1605 25

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-145 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5



Male header; with mounting flanges
1-conductor female plug with lateral locking levers



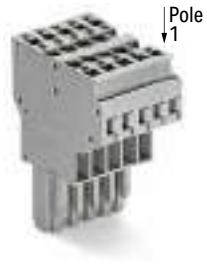
Male header and 1-conductor female plug with lateral locking levers

7

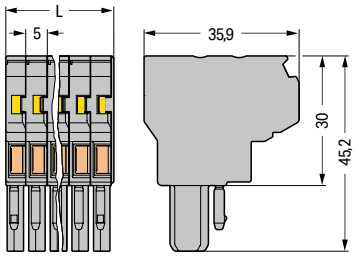
CAGE CLAMP®

2-Conductor Female Plug X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



L = pole no. x module width

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Please observe the application notes:
Jumpers, from page 426

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

2-conductor female plug; fits into carrier terminal blocks or male connectors; codable; can be commoned with adjacent and staggered jumpers; gray

Pole No.	Item No.	Pack. Unit
1	769-121	100
2	769-122	50
3	769-123	25
4	769-124	25
5	769-125	20
6	769-126	10
7	769-127	10
8	769-128	10
9	769-129	10
10	769-130	10
11	769-131	5
12	769-132	5
13	769-133	5
14	769-134	5
15	769-135	5

2-conductor female plug; fits into carrier terminal blocks or male connectors; codable; can be commoned with adjacent and staggered jumpers

1 green-yellow	769-121/000-016	100

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block



gray	280-402	200 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A



1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Locking Lever; for 1-pole female plugs



gray	769-428	100 (25)
orange	769-429	100 (25)

Locking lever; for female plugs with 2 poles and more



gray	769-431	100 (25)
orange	769-430	100 (25)

Strain relief plate; gray



1-pole	769-410	100 (25)
2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray



6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

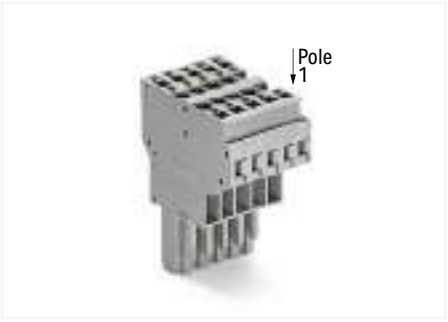
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

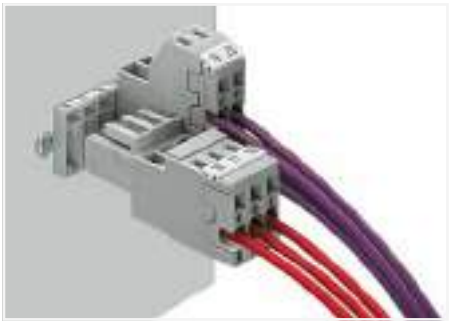
plain	248-501	5



2-conductor female plugs:
- Common signals from one subassembly to the other (bus structure)
- Can be used as a T-wire branch tap connection (e.g. for lighting wiring)
- Enable a higher number of connection possibilities



Commoning options of female plugs:
- After removal, commoned potentials still remain commoned
- Use of plug-in jumpers instead of additional wired jumpers
- Can be used as a "hardware" key for safety lockout
- Can also be used as a commoning jumper for sensor circuits or machine programming



Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug

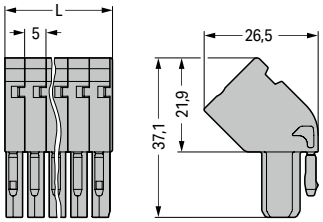
CAGE CLAMP®

1-Conductor Female Plug X-COM®-SYSTEM; Angled
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Dimensions (in mm)



L = pole no. x module width

1-conductor female plug; angled; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	769-101/022-000	200
2	769-102/022-000	100
3	769-103/022-000	50
4	769-104/022-000	50
5	769-105/022-000	50
6	769-106/022-000	25
7	769-107/022-000	25
8	769-108/022-000	25
9	769-109/022-000	25
10	769-110/022-000	25
11	769-111/022-000	20
12	769-112/022-000	20
13	769-113/022-000	10
14	769-114/022-000	10
15	769-115/022-000	10

1-conductor female plug; angled; fits into carrier terminal blocks; codable

1 green-yellow	769-101/022-016	200

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white 769-470 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray 769-471 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray 769-472 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 280-415 100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection



769-434 2000 (100)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Strain relief plate; gray



1-pole 769-410 100 (25)
2- … 3-pole 769-411 100 (25)
4- … 5-pole 769-412 100 (25)

Strain relief plate; gray



6- … 9-pole 769-413 100 (25)
10- … 15-pole 769-414 100 (25)

Snap-on type strain relief housing; consists of strain relief support and housing



5-pole 769-1605 25

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-145 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5



Angled female plugs provide reduced installation height.



1-conductor/1-pin double-deck carrier terminal block
1-conductor female plug, angled*
*1-conductor straight female plug is also possible!

7

Female Plug for Self-Assembly X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V / 6 kV / 3 ❶
I_N 32 A ❷
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



1-conductor end module; codable; can be commoned with miniature adjacent jumpers

Color	Item No.	Pack. Unit
gray	769-503	250
blue	769-503/000-006	250
green-yellow	769-503/000-016	250

1-conductor center module; codable; can be commoned with miniature adjacent jumpers

Color	Item No.	Pack. Unit
gray	769-502	250
blue	769-502/000-006	250
green-yellow	769-502/000-016	250

1-conductor base module; with integrated end plate; codable; can be commoned with miniature adjacent jumpers

Color	Item No.	Pack. Unit
gray	769-501	250
blue	769-501/000-006	250
green-yellow	769-501/000-016	250

Accessories; item-specific

Adjacent jumper; insulated; I_N 24 A



gray 769-402 100 (25)

Locking Lever; for 1-pole female plugs



gray	769-428	100 (25)
orange	769-429	100 (25)

Locking lever; for female plugs with 2 poles and more



gray	769-431	100 (25)
orange	769-430	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white 769-470 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray 769-471 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray 769-472 200 (25)

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V / 6 kV / 3 ❶
I_N 32 A ❷
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



2-conductor end module; codable; can be commoned with adjacent and staggered jumpers

Color	Item No.	Pack. Unit
gray	769-506	250
blue	769-506/000-006	250
green-yellow	769-506/000-016	250

2-conductor center module; codable; can be commoned with adjacent and staggered jumpers

Color	Item No.	Pack. Unit
gray	769-505	250
blue	769-505/000-006	250
green-yellow	769-505/000-016	250

2-conductor base module; with integrated end plate; codable; can be commoned with adjacent and staggered jumpers

Color	Item No.	Pack. Unit
gray	769-504	250
blue	769-504/000-006	250
green-yellow	769-504/000-016	250

Accessories; item-specific

Adjacent jumper; insulated; I_N = I_N terminal block



gray 280-402 200 (25)

Locking Lever; for 1-pole female plugs



gray	769-428	100 (25)
orange	769-429	100 (25)

Locking lever; for female plugs with 2 poles and more



gray	769-431	100 (25)
orange	769-430	100 (25)

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 280-415 100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection



769-434 2000 (100)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V / 6 kV / 3 ❶
I_N 32 A ❷
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



1-conductor end module; angled; codable

Color	Item No.	Pack. Unit
gray	769-515	250
blue	769-515/000-006	250
green-yellow	769-515/000-016	250

1-conductor center module; angled; codable

Color	Item No.	Pack. Unit
gray	769-513	250
blue	769-513/000-006	250
green-yellow	769-513/000-016	250

1-conductor base module; angled; with integrated end plate; codable

Color	Item No.	Pack. Unit
gray	769-512	250
blue	769-512/000-006	250
green-yellow	769-512/000-016	250

Strain relief plate; gray



1-pole	769-410	100 (25)
2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray



6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Accessories; for female plugs

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Customizing Modular Female Plugs
WAGO's modular X-COM®-SYSTEM female plugs can be customized for applications requiring varying numbers of poles (e.g., when designing prototypes).

Modules and Pole Numbers
A customized X-COM®-SYSTEM female plug consists of:
- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

Intended Use
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

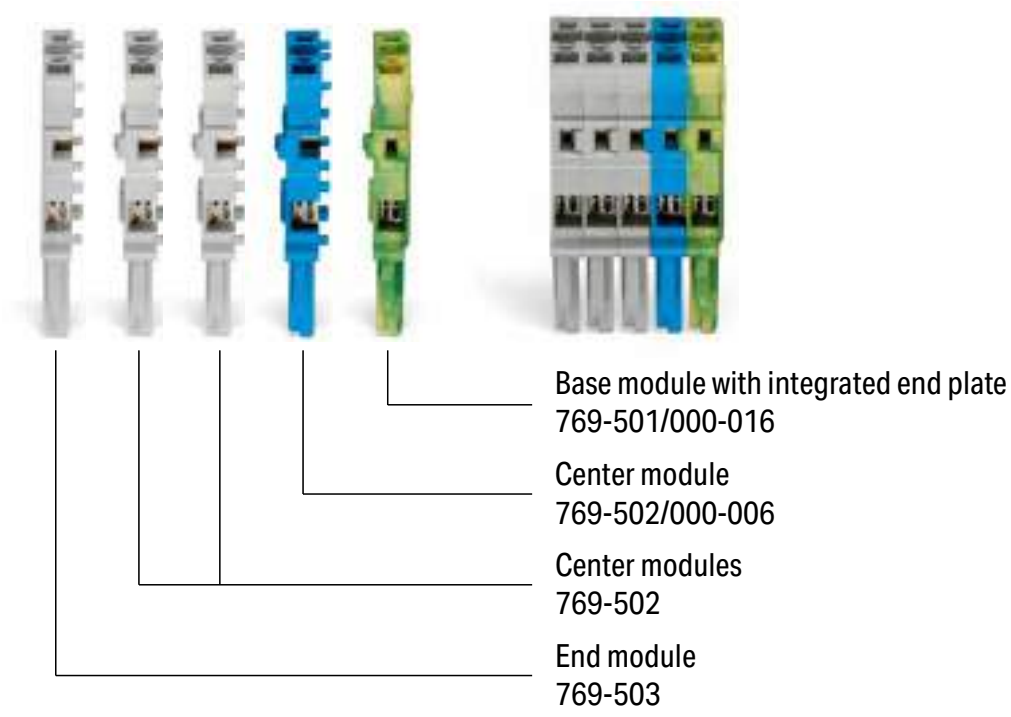
Assembly
The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.


End module


Center module


Base module

Example: 5-Pole, 1-Conductor Female Plug



Pre-Assembled 1-Conductor Female Plug X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V / 6 kV / 3 ❶
I_N 32 A ❷
Module width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-036	25
4	769-104/000-036	25
5	769-105/000-036	20
6	769-106/000-036	10
7	769-107/000-036	10
8	769-108/000-036	10
9	769-109/000-036	10
10	769-110/000-036	10
11	769-111/000-036	5
12	769-112/000-036	5
13	769-113/000-036	5
14	769-114/000-036	5
15	769-115/000-036	5

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V / 6 kV / 3 ❶
I_N 32 A ❷
Module width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-037	25
4	769-104/000-037	25
5	769-105/000-037	20
6	769-106/000-037	10
7	769-107/000-037	10
8	769-108/000-037	10
9	769-109/000-037	10
10	769-110/000-037	10
11	769-111/000-037	5
12	769-112/000-037	5
13	769-113/000-037	5
14	769-114/000-037	5
15	769-115/000-037	5

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V / 6 kV / 3 ❶
I_N 32 A ❷
Module width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-038	25
4	769-104/000-038	25
5	769-105/000-038	20
6	769-106/000-038	10
7	769-107/000-038	10
8	769-108/000-038	10
9	769-109/000-038	10
10	769-110/000-038	10
11	769-111/000-038	5
12	769-112/000-038	5
13	769-113/000-038	5
14	769-114/000-038	5
15	769-115/000-038	5

7

Accessories; for female plugs

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white | 769-470 | 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray | 769-471 | 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray | 769-472 | 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow | 280-415 | 100 (25)

Adjacent jumper; insulated; I_N 24 A

gray | 769-402 | 100 (25)

Jumper cover; for 1-conductor female plugs; for 5 poles

gray | 769-436 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red | 210-136 | 50

Strain relief plate; gray

2- … 3-pole | 769-411 | 100 (25)
4- … 5-pole | 769-412 | 100 (25)

Strain relief plate; gray

6- … 9-pole | 769-413 | 100 (25)
10- … 15-pole | 769-414 | 100 (25)

Snap-on type strain relief housing; consists of strain relief support and housing

5-pole | 769-1605 | 25

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

769-434 | 2000 (100)

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white | 2009-145 | 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain | 248-501 | 5

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V / 6 kV / 3 ❶	
I_N 32 A ❷	
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Current-carrying capacity curves upon request

Snap-on type strain relief housing, see page 452

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

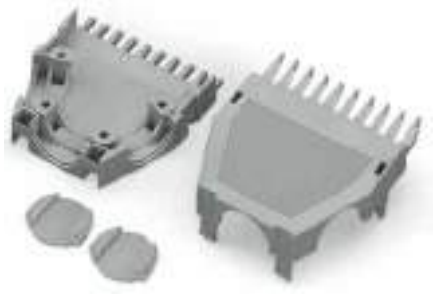
1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-039	25
4	769-104/000-039	25
5	769-105/000-039	20
6	769-106/000-039	10
7	769-107/000-039	10
8	769-108/000-039	10
9	769-109/000-039	10
10	769-110/000-039	10
11	769-111/000-039	5
12	769-112/000-039	5
13	769-113/000-039	5
14	769-114/000-039	5
15	769-115/000-039	5

Strain Relief Housing X-COM®-SYSTEM; for Female Plugs and Male Connectors with CAGE CLAMP® Connection

769 Series



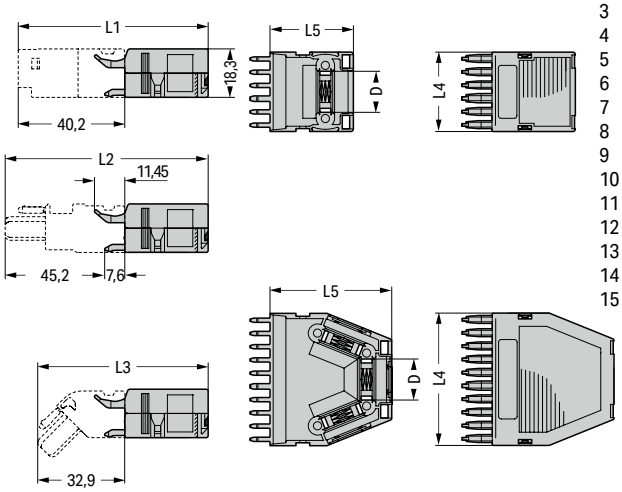




Application:
Strain relief housings for 769 Series

Dimensions (in mm)

Dimensions for strain relief housings



pole no.	L1	L2	L3	L4	L5	D
2	71.7	76.7	64.4	10	31.5	5
3	71.7	76.7	64.4	15	31.5	9.7
4	71.7	76.7	64.4	20	31.5	14
5	71.7	76.7	64.4	25	31.5	14
6	71.7	76.7	64.4	30	31.5	15.5
7	77.7	81.7	69.4	35	36.5	15.5
8	86.2	91.2	78.9	40	46	15.5
9	86.2	91.2	78.9	45	46	15.5
10	86.2	91.2	78.9	50	46	15.5
11	86.2	91.2	78.9	55	46	15.5
12	86.2	91.2	78.9	60	46	15.5
13	86.2	91.2	78.9	65	46	15.5
14	86.2	91.2	78.9	70	46	15.5
15	86.2	91.2	78.9	75	46	15.5



Snapping on a strain relief housing.



Strain relief housing; consists of strain relief support and housing; 6-pole and 1-conductor female plug; angled; 6-pole



2- to 5-pole strain relief housings feature one cable outlet (rear side).
6- to 7-pole strain relief housings feature one cable outlet
8- to 9-pole strain relief housings feature two cable outlets and one cover.
10- to 16-pole strain relief housings feature three cable outlets and two covers.

Strain relief housing; consists of strain relief support and housing with 1 cable outlet (rear side), 2- to 5-pole only suitable for cable ties (not offered by WAGO); gray

Polzahl	Bestellnr.	VPE
2	769-1602	100
3	769-1603	100
4	769-1604	100
5	769-1605	50

Strain relief housing; consists of strain relief support and housing with 1 cable outlet; gray

Polzahl	Bestellnr.	VPE
6	769-1606	100
7	769-1607	100

Strain relief housing; consists of strain relief support and housing with 2 cable outlets, 1 cover; gray

8	769-1608	50
9	769-1609	50

Strain relief housing; consists of strain relief support and housing with 3 cable outlets, 2 covers; gray

10	769-1610	50
11	769-1611	25
12	769-1612	25
13	769-1613	25
14	769-1614	25
15	769-1615	25

Accessories; item-specific

WSB Quick Marking System; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 209-501 5

Accessories; item-specific

Cable clamp; for strain relief



6 or more poles 209-174 25

Mounting screw; for cable clamp

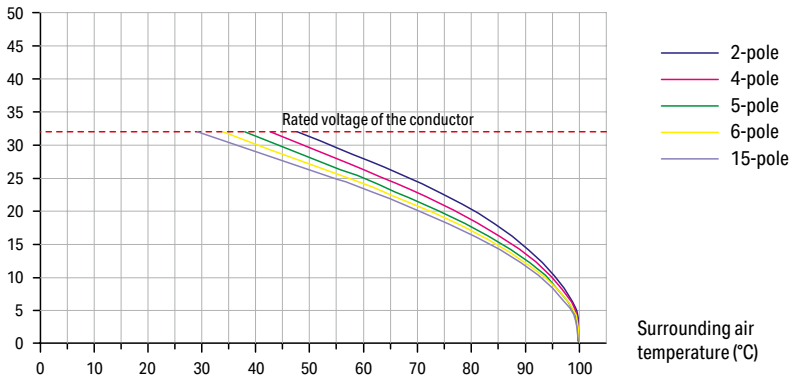


6 or more poles 209-173 50

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves

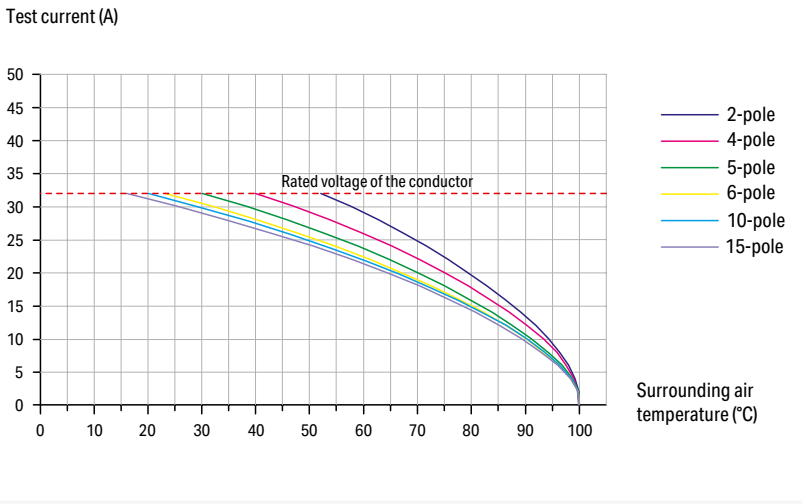




1-conductor/1-pin carrier terminal block (769-176)
Conductor cross section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

7





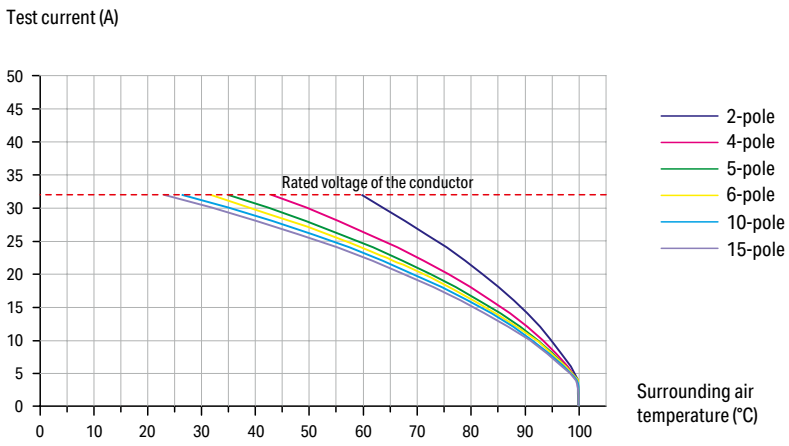
2-pin carrier terminal block (769-156)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

CAGE CLAMP®

2-Conductor/2-Pin and 4-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves

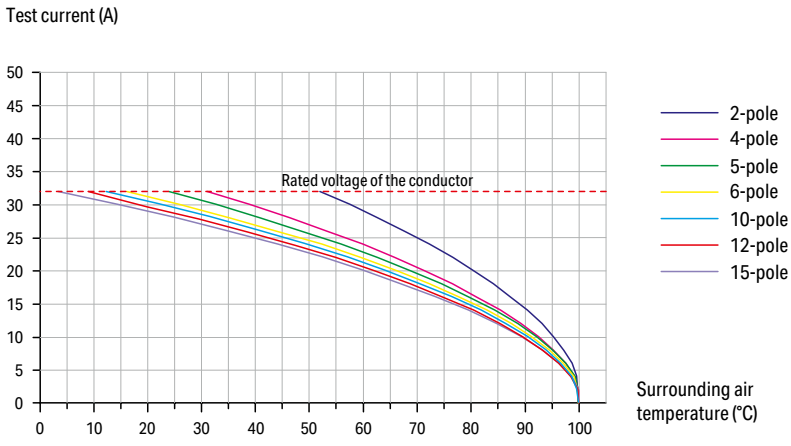




2-conductor/2-pin carrier terminal block (769-171)
Conductor cross section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

7





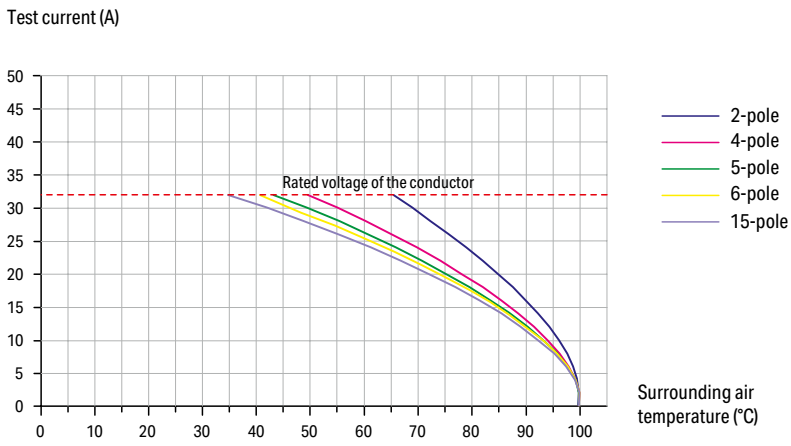
4-pin carrier terminal block (769-151)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

CAGE CLAMP®

Male Connectors; with CAGE CLAMP® Connection and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves





Male connectors with
CAGE CLAMP® connection (769-602 to 769-615)
Conductor cross section: 4 mm² (12 AWG)

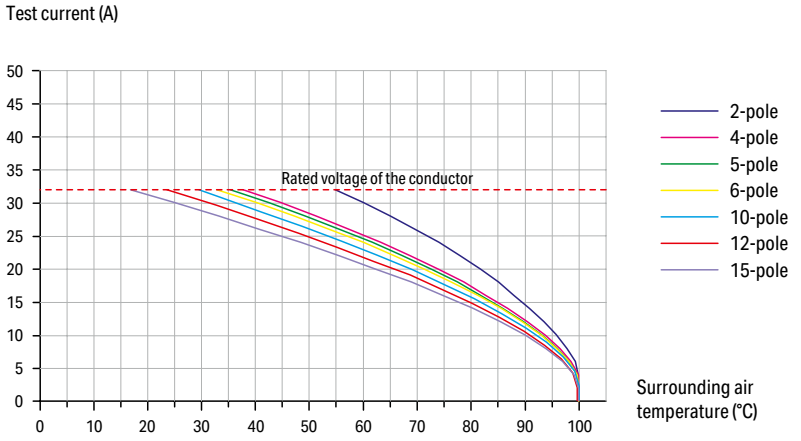
1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

7

CAGE CLAMP®

Male Headers with Straight/Angled Solder Pins and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves

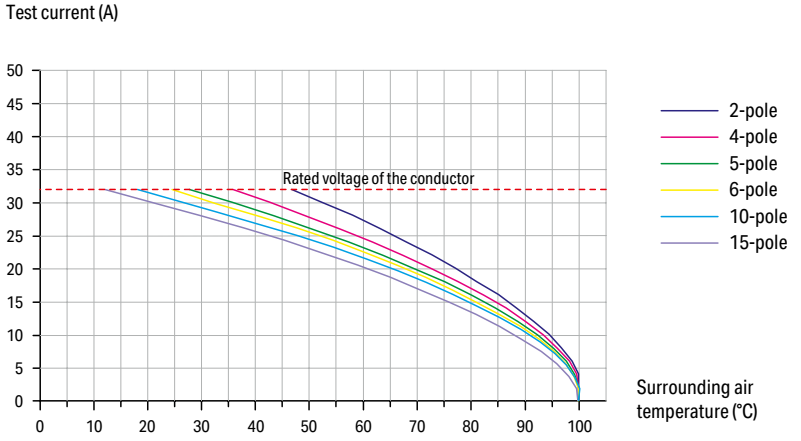




Male headers with straight solder pins (769-632 to 769-645)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

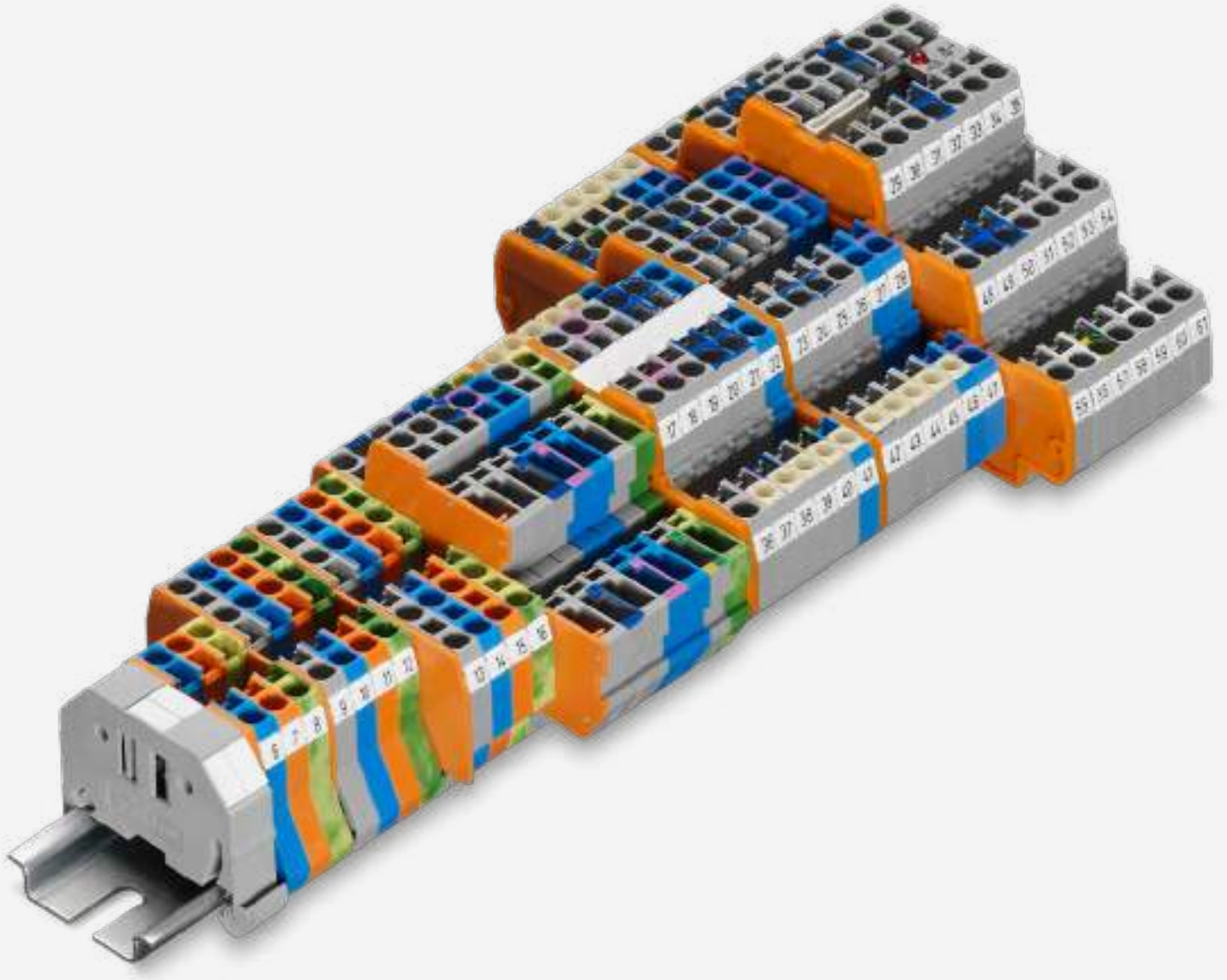
7





Male headers with angled solder pins (769-662 to 769-675)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m



WAGO Rail-Mount Terminal Blocks Mini
WAGO Rail-Mount Terminal Blocks Compact

CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks Mini
WAGO Rail-Mount Terminal Blocks Compact

			Page
	**Through, Ground Conductor and Ex Terminal Blocks for DIN-35 and DIN-15 Rails** 0.08 … 2.5 mm² (28 … 12 AWG)	264 Series	504
	**Through, Ground Conductor and Ex Terminal Blocks for DIN-35 and DIN-15 Rails** 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	508
	**Multilevel Rail-Mount Terminal Blocks** 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	510
	**Multilevel Diode and LED Terminal Blocks** 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	514
	**Sensor and Actuator Terminal Blocks** 0.08 … 2.5 mm² (28 … 12 AWG)	270 Series	521
	**Accessories for Rail-Mount Terminal Blocks**		513

8

Rail-Mount Terminal Blocks Mini; for DIN-15 and DIN-35 Rails
264 Series
Description and Installation



Quick assembly keys prevent reverse mounting.



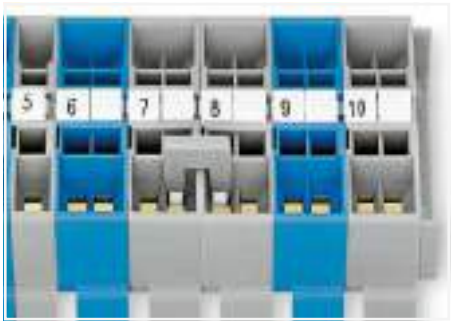
Separate terminal strip and slide individual terminal block laterally.



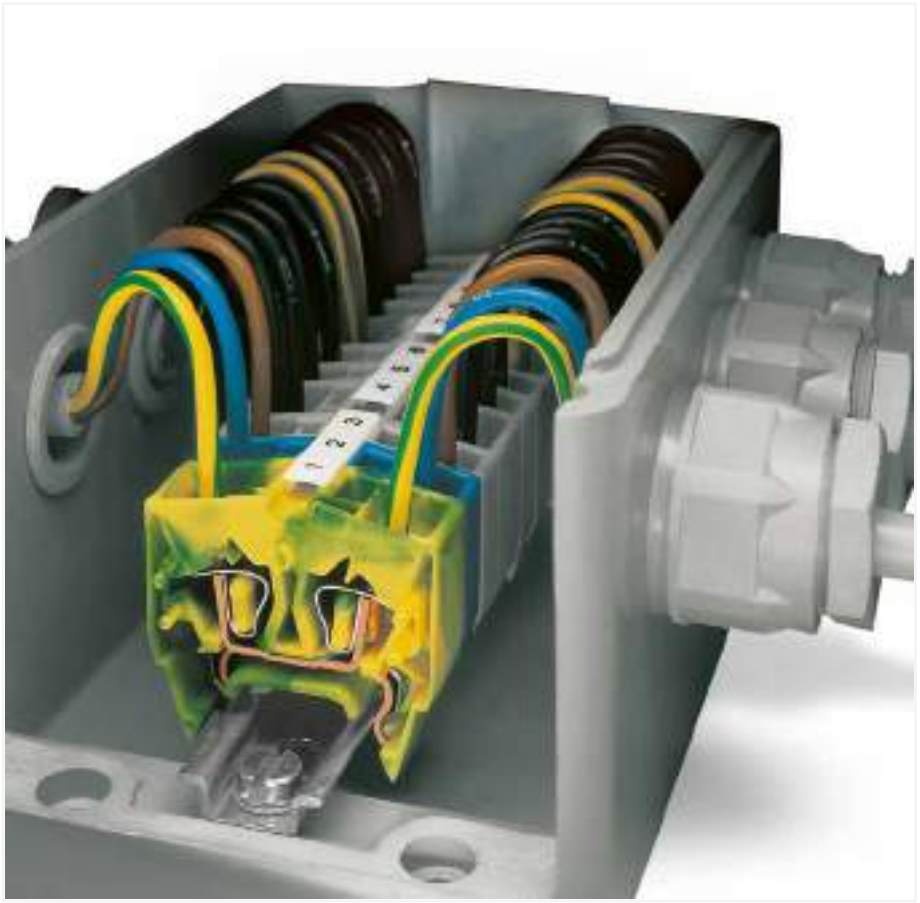
Remove terminal block from the DIN-rail with a levering action.



Commoning with comb-style jumper bar.



Commoning with comb-style jumper bar.





Easy-to-use miniature blocks that require minimal enclosure space.



Combining 2- and 4-conductor terminal blocks.



Marking via Mini-WSB Quick Marking System.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15.



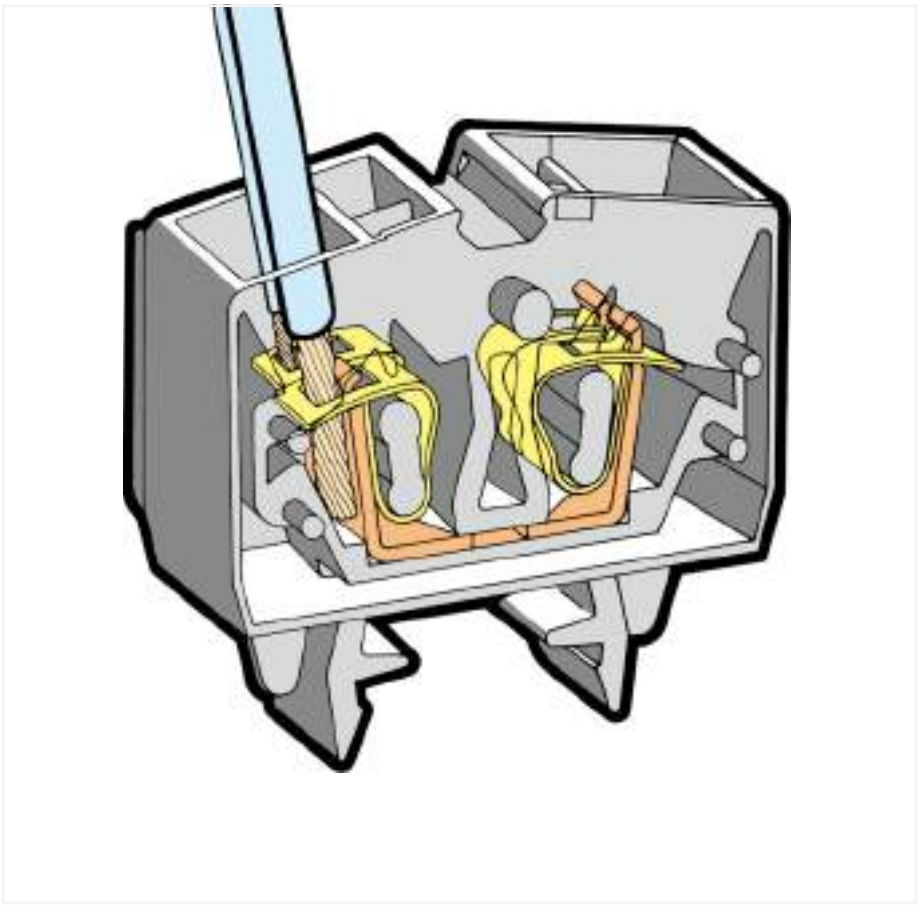
CAGE CLAMP® termination:
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Separating groups via intermediate plates.



Ex e/Ex i separator plate for miniature rail-mount terminal blocks





Testing by touch contact to the CAGE CLAMP® spring (limited to 0.5 A and 48 V test voltage) – test pins are not protected against accidental contact.



Testing via CAGE CLAMP® on the current bar (max. nominal current: 6 A) – CAGE CLAMP® clamps individual test contacts.
The maximum test voltage is 400 V.



Marking with T-marker tag (209-290).



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)

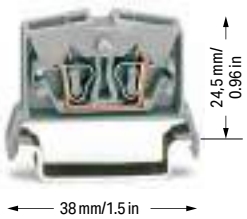


fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

Miniature Through/Ground Conductor and Ex Terminal Block; for DIN-35 Rail
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor miniature through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	264-711	100
blue	264-714 ❷	100
orange	264-716	100
light gray	264-125 ❸	100

Accessories; item-specific

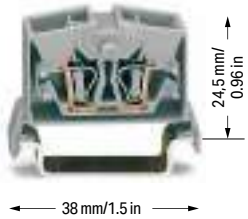
Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Test plug module; snaps together; 6 mm wide

gray	249-136	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor miniature through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	264-731	100
blue	264-734 ❷	100
orange	264-736	100
light gray	264-225 ❸	100

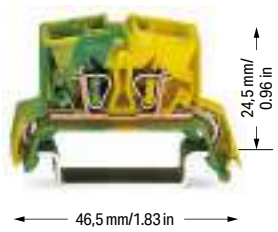
Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

gray	249-139	100 (25)



4-conductor miniature ground terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
green-yellow	264-737	100
green-yellow	264-737/999-950 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

gray	249-139	100 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 15)

See application notes for:
Alternate comb-style jumper bar, page 426
Test plug module, page 420
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 264 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick



orange	264-369	25
gray	264-368	25
light gray	264-370	25

Ex e/Ex i separator; orange; 4 mm thick



66 mm	264-367	25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way	264-402	200 (25)

Operating tool; insulated

2-way	280-432	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Screwless end stop; for DIN-35 rail; 6 mm wide



gray	249-116	100 (25)

Steel DIN-rail; per EN 60715; 35 x 7.5 mm; 1 mm thick; 2 m long



slotted	210-112	10 (1)
unslotted	210-113	10

Aluminum DIN-rail; similar to EN 60715; 35 x 8.2 mm; 1.6 mm thick; 2 m long



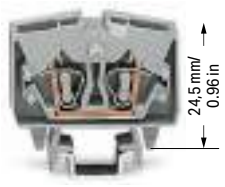
unslotted	210-196	10

8

CAGE CLAMP®

Miniature Through/Ground Conductor and Ex Terminal Block; for DIN-15 Rail
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor miniature through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	264-701	100
blue	264-704 ❷	100
orange	264-706	100
light gray	264-120 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



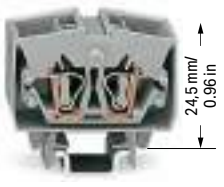
2-way 281-492 100 (25)

Test plug module; snaps together; 6 mm wide



gray 249-136 100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor miniature through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	264-721	100
blue	264-724 ❷	100
orange	264-726	100
light gray	264-220 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

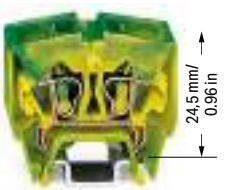


2-way 280-492 200 (25)

Test plug module; snaps together; 10 mm wide



gray 249-139 100 (25)



4-conductor miniature ground terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
green-yellow	264-727	100
green-yellow	264-727/999-950 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way 280-492 200 (25)

Test plug module; snaps together; 10 mm wide



gray 249-139 100 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 15)

See application notes for:
Alternate comb-style jumper bar, page 426
Test plug module, page 420
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 264 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick



orange 264-369 25
gray 264-368 25
light gray 264-370 25

Ex e/Ex i separator; orange; 4 mm thick



66 mm 264-367 25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way 264-402 200 (25)

Operating tool; insulated

2-way 280-432 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white 2009-145 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5

Screwless end stop; for DIN-15 rail; 6 mm wide



gray 249-101 25

Steel DIN-rail; per EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



slotted 210-111 10 (1)
unslotted 210-295 10 (1)

Aluminum DIN-rail; similar to EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long



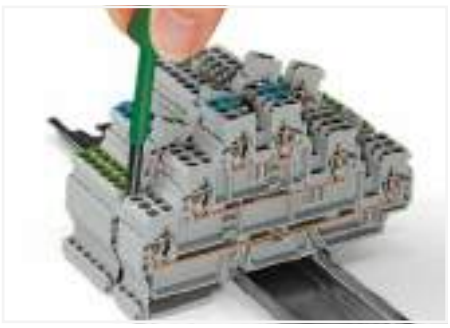
unslotted 210-296 1

8

Rail-Mount Terminal Blocks Compact; for DIN-15 and DIN-35 Rails
870 Series
Description and Installation



Snapping a rail-mount terminal block onto DIN-35 rail.



Removing a terminal block from the assembly.



Inserting insulation stops into conductor entry holes of terminal strip.



Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side until installed.
Push-in type jumper bars 1 – 3 – 5 – 7 or 1 – 4 – 7 are available upon request.





Commoning with push-in type jumper bars:
Two parallel jumper slots are accommodated in one terminal block.



Commoning terminal blocks of different sizes via step-down jumpers.



Testing:
Using a pre-wired module assembly, similar to test plugs.



Testing with phase testing device, also possible with single-pole voltage tester.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15.



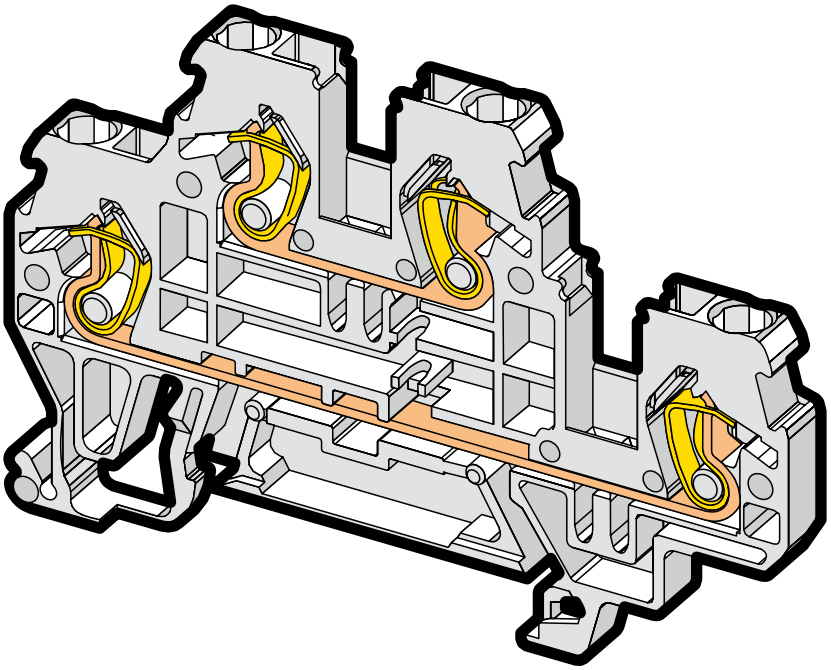
CAGE CLAMP® termination:
Inserting a conductor via operating tool (0.08 … 4 mm² "f-st").
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



CAGE CLAMP® termination:
Inserting a conductor via operating tool (0.08 … 4 mm² "f-st").

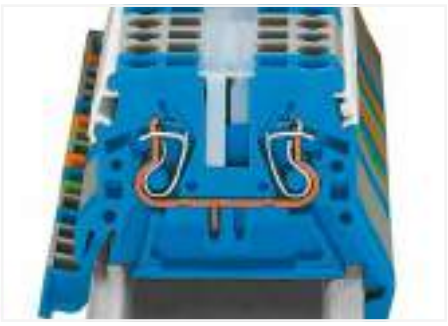


Multilevel terminal blocks:
Double- and triple-deck terminal blocks with internal commoning acting as 4- and 6-conductor terminal blocks

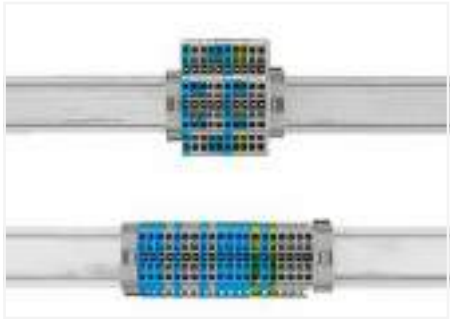




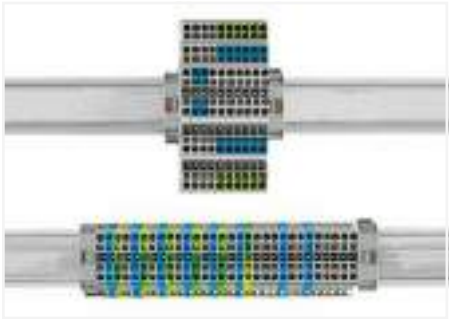
Protective warning marker (280-405); with a black high-voltage symbol



WMB markers in Mini-WSB marker slots
Marking strip; translucent
Mini-WSB markers



Use 50% less rail space with double-deck terminal blocks.



Use 67% less rail space with triple-deck terminal blocks.



Translucent marking strip (709-196) – jumpers below may be visible.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)

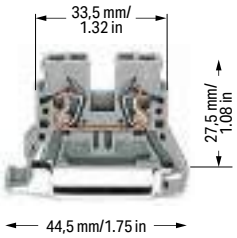


fine-stranded, with pin terminal (gastight crimped)

Through/Ground Conductor/Ex and Double-Potential Terminal Block for DIN-35 and DIN-15 Rails

2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



2-conductor through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	870-901	100
blue	870-904 ❸	100
orange	870-902	100
light gray	870-909 ❹	100

2-conductor ground terminal block; for DIN-35 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

green-yellow	870-907	100
green-yellow	870-907/999-950 ❹	100

Accessories; item-specific

End and intermediate plate; 2 mm thick



orange	870-924	100 (25)
gray	870-923	100 (25)
light gray	870-925	100 (25)

Separator; oversized; 2 mm thick



orange	870-929	100 (25)
gray	870-928	100 (25)

End and intermediate plate; 2 mm thick; for 2-conductor ground conductor Ex terminal blocks only



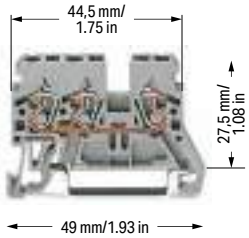
green-yellow	870-926	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



3-conductor through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	870-681	100
blue	870-684 ❸	100
orange	870-682	100

3-conductor ground terminal block; for DIN-35 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

green-yellow	870-687	100

Accessories; item-specific

End and intermediate plate; 1 mm thick



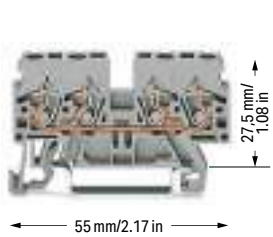
orange	870-934	100 (25)
gray	870-933	100 (25)

Separator; oversized; 1 mm thick



orange	870-947	100 (25)
gray	870-946	100 (25)

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



4-conductor through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	870-831	100
blue	870-834 ❸	100
orange	870-832	100

4-conductor ground terminal block; for DIN-35 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

green-yellow	870-837	100

Other terminal blocks with the same profile:

Double-potential	870-826	Page 467

Accessories; item-specific

End and intermediate plate; 1 mm thick



orange	870-944	100 (25)
gray	870-943	100 (25)

Separator; oversized; 1 mm thick



orange	870-949	100 (25)
gray	870-948	100 (25)

Accessories; 870 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

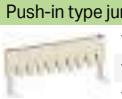


dark gray	280-472	200 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

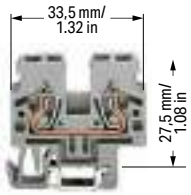
Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

CAGE CLAMP®

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



2-conductor through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	870-911	100
light gray	870-914 ❸	100
orange	870-912	100
light gray	870-919 ❹	100

2-conductor ground terminal block; for DIN-15 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

Color	Item No.	Pack. Unit
green-yellow	870-917	100

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	870-924	100 (25)
gray	870-923	100 (25)
light gray	870-925	100 (25)

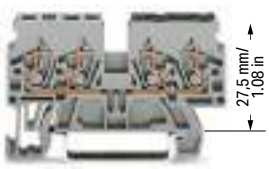
Separator; oversized; 2 mm thick

orange	870-929	100 (25)
gray	870-928	100 (25)

End and intermediate plate; 2 mm thick; for 2-conductor ground conductor Ex terminal blocks only

green-yellow	870-926	100 (25)

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Double-potential terminal block; with integrated marking level

Color	Item No.	Pack. Unit
gray	870-826	100

Notice: These double-potential terminal blocks cannot be commoned with push-in type jumper bars!
Front-entry double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 5 mm. This achieves a width of just 2.5 mm versus standard through terminal blocks for a total height of just 27.5 mm from the upper-edge of DIN-rail.
Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.
Technical data and accessories,
visit www.wago.com

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	870-944	100 (25)
gray	870-943	100 (25)

Separator; oversized; 1 mm thick

orange	870-949	100 (25)
gray	870-948	100 (25)

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Suitable for Ex e II applications
0.2 … 2.5 (4 “f-st”) mm² / 24 … 12 AWG
440 V; 22 A
(see Section 15)
Using one or more push-in type jumper bars, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A.

See application notes for:
Insulation stop, page 425
Tap-off module, page 518
Group marker carrier, page 513

Approvals and corresponding ratings,
visit www.wago.com



Mounting on DIN-15 rail:
Snap individual terminal blocks onto the DIN-15 rail and slide together.
Removal from DIN-15 rail:
Open assembly by laterally sliding terminal blocks with an operating tool and remove them from the rail.



In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.
End plates 870-923 (gray), 870-924 (orange) and 870-925 (light gray), as well as separator plates 870-928 (gray) and 870-929 (orange) cannot be assembled to 2-conductor ground Ex terminal blocks (870-907/999-950).

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Tap-off module; with anti-reverse mating protection; snaps together; 5 mm wide

gray	870-425	100 (25)

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-145	1

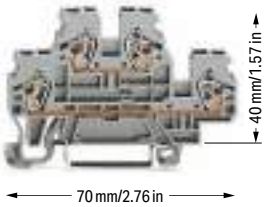
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

CAGE CLAMP®

Double-Deck Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Double-deck terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
L/L	870-501	50
N/L	870-502	50
L/N	870-503	50

Double-deck terminal block; through/through terminal block; blue

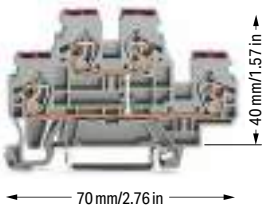
	Item No.	Pack. Unit
N/N	870-504 ❸	50

Double-deck terminal block; through/through terminal block; light gray

	Item No.	Pack. Unit
L/L	870-961 ❹	50

Other terminal blocks with the same profile:

Diode	870-540/281-410	Page 472
LED	870-543/281-434	Page 472



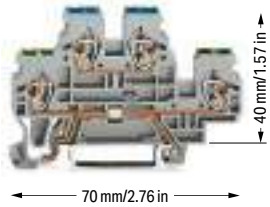
Double-deck terminal block; 4-conductor through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-508	50

Double-deck terminal block; 4-conductor through terminal block; internally commoned; Violet conductor entry; blue

	Item No.	Pack. Unit
N	870-509 ❸	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

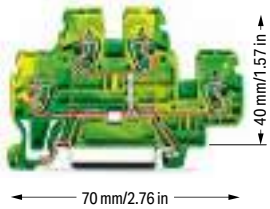


Double-deck terminal block; ground conductor/through terminal block; gray

	Item No.	Pack. Unit
PE/N	870-517	50
PE/L	870-527	50

Double-deck terminal block; ground conductor/through terminal block; light gray

	Item No.	Pack. Unit
PE/L	870-967/999-950 ❸	50



Double-deck terminal block; 4-conductor ground terminal block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	870-507	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Suitable for Ex e II applications
0.2 … 2.5 (4 “f-st”) mm² / 24 … 12 AWG
440 V; 22 A
(see Section 15)
Using one or more push-in type jumper bars, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A.

See application notes for:
Insulation stop, page 425
Group marker carrier, page 513

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick



orange	870-519	100 (25)
gray	870-518	100 (25)

Ex e/Ex i separator; orange; 3 mm thick



125.5 mm	209-192	50 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

8

3-Conductor Double-Deck Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



3-conductor double-deck terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
L/L	870-531	50
N/L	870-532	50
L/N	870-533	50

3-conductor double-deck terminal block; through/through terminal block; blue

	Item No.	Pack. Unit
N/N	870-534 ❸	50



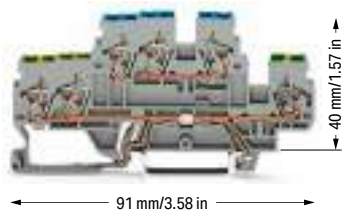
3-conductor double-deck terminal block; 6-conductor through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-538	50

3-conductor double-deck terminal block; 6-conductor through terminal block; internally commoned; Violet conductor entry; blue

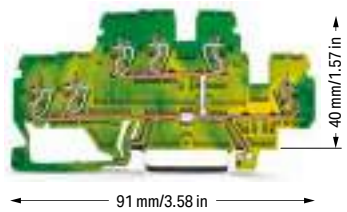
	Item No.	Pack. Unit
N	870-539 ❸	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



3-conductor double-deck terminal block; ground conductor/through terminal block; gray

	Item No.	Pack. Unit
PE/N	870-535	50
PE/L	870-536	50



3-conductor double-deck terminal block; 6-conductor ground terminal block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	870-537	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Insulation stop, page 425
Group marker carrier, page 513

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick



orange	870-574	100 (25)
gray	870-573	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

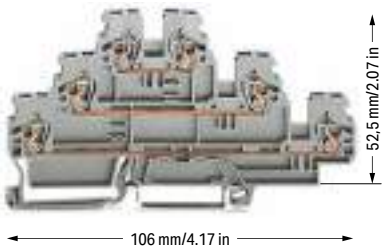
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

CAGE CLAMP®

Triple-Deck Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Triple-deck terminal block; through/through/through terminal block; gray

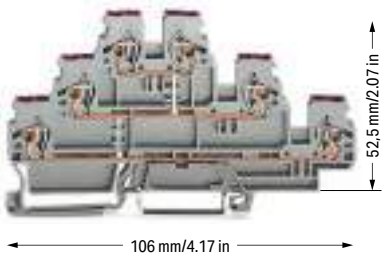
	Item No.	Pack. Unit
L/L/L	870-551	50
L/L/N	870-553	50

Triple-deck terminal block; through/through/through terminal block; light gray

	Item No.	Pack. Unit
L/L/L	870-951 ❸	50

Other terminal blocks with the same profile:

Diode	870-590/281-410	Page 474
LED	870-593/281-434	Page 474



Triple-deck terminal block; 6-conductor through terminal block; internally commoned; Violet conductor entry; gray

	Item No.	Pack. Unit
L	870-556	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Triple-deck terminal block; shield conductor/through/through terminal block; gray

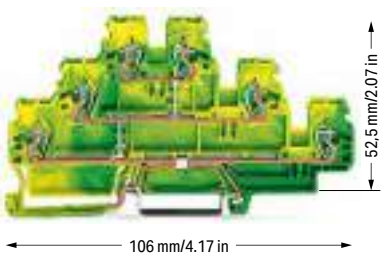
	Item No.	Pack. Unit
Shield/N/L	870-558	50
Shield/L/L	870-559	50

Triple-deck terminal block; ground conductor/through/through terminal block; gray

	Item No.	Pack. Unit
PE/N/L	870-567	50
PE/L/L	870-577	50

Triple-deck terminal block; ground conductor/through/through terminal block; light gray

	Item No.	Pack. Unit
PE/L/L	870-957/999-950 ❸	50



Triple-deck terminal block; 6-conductor ground terminal block; internally commoned; green-yellow

	Item No.	Pack. Unit
PE	870-557	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Suitable for Ex e II applications
0.2 … 2.5 (4 “f-st”) mm² / 24 … 12 AWG
440 V; 22 A
(see Section 15)
Using one or more push-in type jumper bars, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A.

See application notes for:
Insulation stop, page 425
Group marker carrier, page 513

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick



orange	870-569	100 (25)
gray	870-568	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

8

Group Marker Carrier, Marking Strip and Push-In Type Jumper Bar



Group marker carrier; fits into the jumper slot of the current bars
Module width: 5 mm

Color	Item No.	Pack. Unit
gray	870-184	50 (25)

Group marker carrier; fits into the jumper slot of the current bars
Module width: 10 mm

Color	Item No.	Pack. Unit
gray	870-183	50 (25)

Group marker carrier; fits into the jumper slot of the current bars
Module width: 15 mm

Color	Item No.	Pack. Unit
gray	870-182	50 (25)



Marking strip; plain; 7.5 mm wide; 1 m long

Color	Item No.	Pack. Unit
transluscent	709-196	50 (25)



In addition to the plastic marker strips, group marker carriers are now available for the WMB and WSB marking systems. They can be mounted in parallel to a push-in type jumper bar via the open jumper contact slot. It is also very useful if the marker slots on the side of the terminal block are hidden. The carriers are available in the following widths: 5 mm (0.197 inch), 10 mm (0.394 inch) and 15 mm (0.591 inch).

Notice:
Group marker carriers are not suitable for ground conductor terminal blocks and double potential terminal blocks as they have no jumper contact slots.



Ready-made push-in type jumper bar; insulated; I_N 18 A; light gray

	Item No.	Pack. Unit
1-3-5	870-405/011-000	200 (25)
1-3-5-7	870-407/011-000	200 (25)
1-3-5-7-9	870-409/011-000	100 (25)



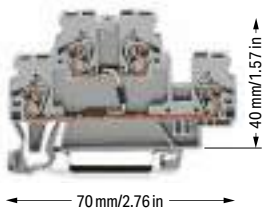
Delta jumper; insulated; 1-2 3-4 5-6; I_N 18 A

Color	Item No.	Pack. Unit
light gray	870-406/020-000	100 (25)

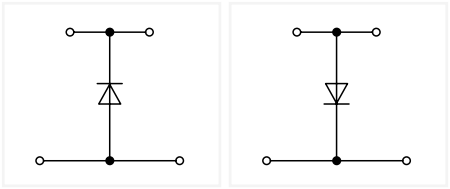
8

Double-Deck Diode Terminal Block and LED Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data
0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch



870-540/281-410 870-540/281-411

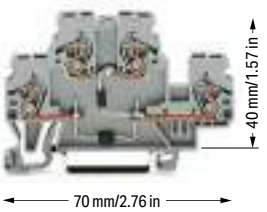


Double-deck diode terminal block; with 1N4007 diode

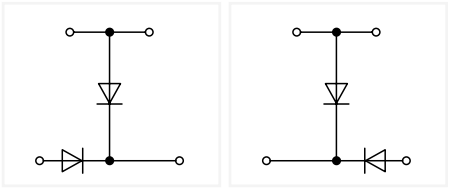
	Item No.	Pack. Unit
○ anode bottom	870-540/281-410	50
○ anode top	870-540/281-411	50

Other terminal blocks with the same profile:		
Through	870-501	Page 468

Technical Data
0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch



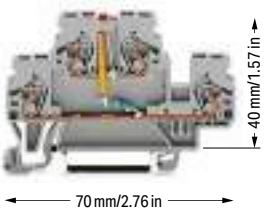
870-541/281-492 870-541/281-491



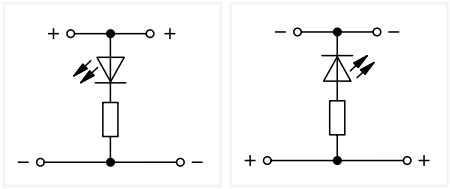
Double-deck diode terminal block; with two 1N4007 diodes

	Item No.	Pack. Unit
○ anode top, anode left	870-541/281-492	50
○ anode top, anode right	870-541/281-491	50

Technical Data
0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch

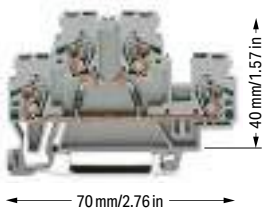


870-543/281-413 870-543/281-434

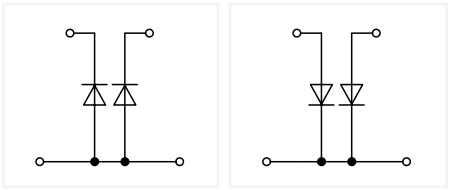


Double-deck LED terminal block; with red LED

	Item No.	Pack. Unit
○ anode top	870-543/281-413	50
○ anode bottom	870-543/281-434	50

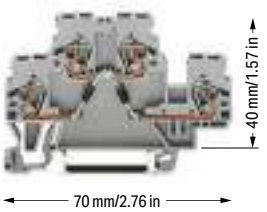


870-542/281-487 870-542/281-488

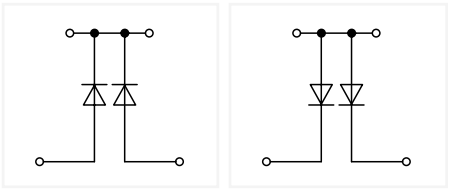


Double-deck diode terminal block; with two 1N4007 diodes

	Item No.	Pack. Unit
○ anodes bottom	870-542/281-487	50
○ anodes top	870-542/281-488	50



870-541/281-489 870-541/281-490



Double-deck diode terminal block; with two 1N4007 diodes

	Item No.	Pack. Unit
○ anodes bottom	870-541/281-489	50
○ anodes top	870-541/281-490	50

8

Double-Deck Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

❶ Max. insulation diameter: 4.4 mm

See application notes for:
Insulation stop, page 425
Group marker carrier, page 513

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick



orange	870-519	100 (25)
gray	870-518	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

transluscent	709-196	1

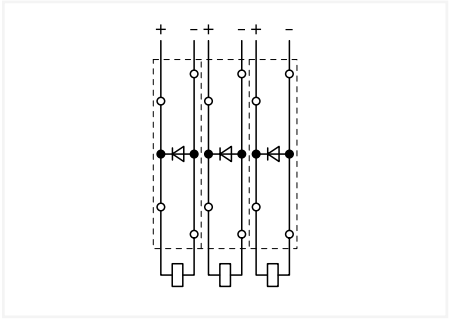
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



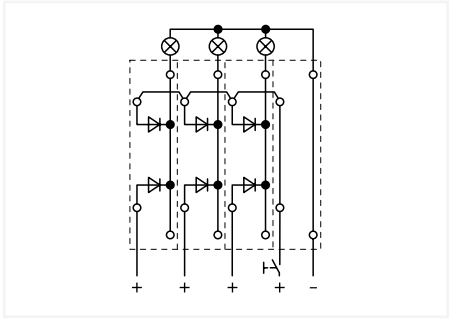
white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

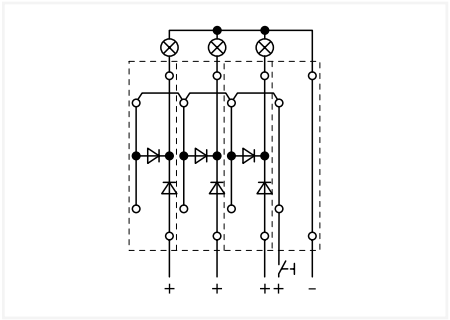
plain	248-501	5



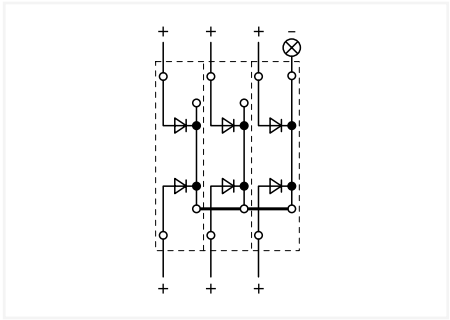
Recovery diodes can be created using the following terminal blocks:
870-540/281-410 or 870-540/281-411



Lamp test circuits can be created using the following terminal blocks:
870-542/281-487 or 870-542/281-488



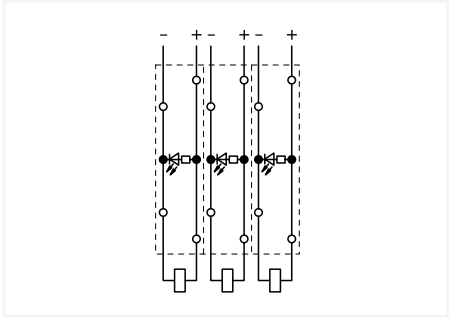
Lamp test circuits can be created using the following terminal blocks:
870-541/281-492 or 870-541/281-491



Collective fault signals can be created using the following terminal blocks:
870-541/281-489 or 870-541/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.
These terminal blocks provide high-density wiring in a width of just 5 mm.

Push-in type jumper bars provide additional options for custom circuit design.

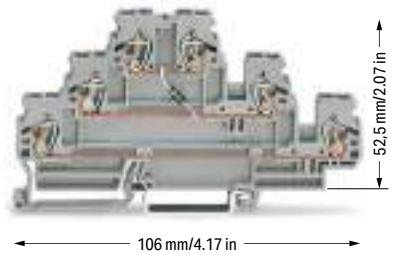


Circuit-related voltage indications can be created using the following terminal blocks:
870-543/281-434 or 870-543/281-413

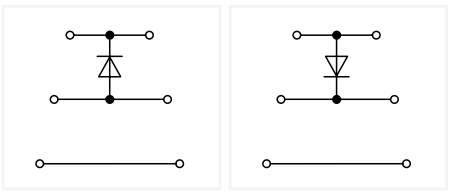
8

Triple-Deck Diode Terminal Block and LED Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data
0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch

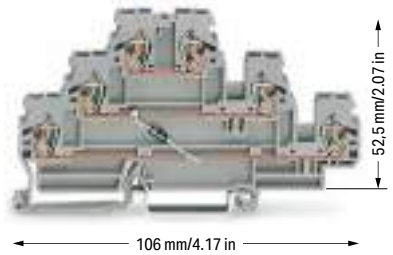


280-590/281-410 280-590/281-411

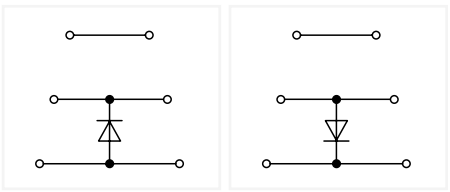


Triple-deck diode terminal block; with 1N4007 diode		
	Item No.	Pack. Unit
○ anode bottom	870-590/281-410	50
○ anode top	870-590/281-411	50

Technical Data
0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch

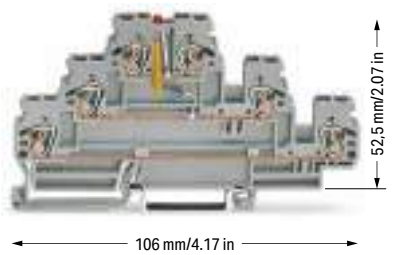


280-590/281-675 280-590/281-676

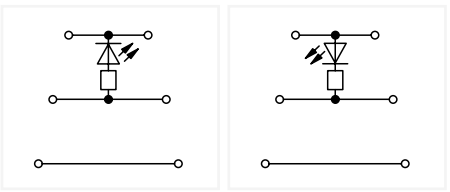


Triple-deck diode terminal block; with two 1N4007 diodes		
	Item No.	Pack. Unit
○ anode bottom	870-590/281-675	50
○ anode top	870-590/281-676	50

Technical Data
0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch

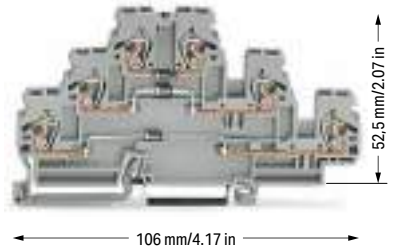


280-593/281-434 280-593/281-413

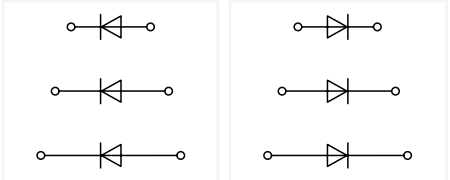


Triple-deck LED terminal block; with red LED		
	Item No.	Pack. Unit
○ anode bottom	870-593/281-434	50
○ anode top	870-593/281-413	50

Other terminal blocks with the same profile:		
Through	870-551	Page 470



280-596/281-673 280-596/281-674



Triple-deck diode terminal block; with two 1N4007 diodes		
	Item No.	Pack. Unit
○ anodes right	870-596/281-673	50
○ anodes left	870-596/281-674	50

❶ Max. insulation diameter: 4.4 mm

See application notes for:
Insulation stop, page 425
Group marker carrier, page 513

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick



orange	**870-569**	100 (25)
gray	**870-568**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	**280-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	**280-405**	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	**870-402**	200 (25)
3-way	**870-403**	200 (25)
4-way	**870-404**	100 (25)
5-way	**870-405**	100 (25)
6-way	**870-406**	100 (25)
7-way	**870-407**	100 (25)
8-way	**870-408**	100 (25)
9-way	**870-409**	100 (25)
10-way	**870-410**	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	**870-433**	200 (25)
1 to 4	**870-434**	200 (25)
1 to 5	**870-435**	100 (25)
1 to 6	**870-436**	100 (25)
1 to 7	**870-437**	100 (25)
1 to 8	**870-438**	100 (25)
1 to 9	**870-439**	100 (25)
1 to 10	**870-440**	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

transluscent	**709-196**	1

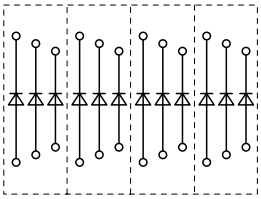
Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	**2009-145**	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	**248-501**	5



Triple-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.

These terminal blocks provide high-density wiring in a width of just 5 mm.

Push-in type jumper bars provide additional options for custom circuit design.

8

CAGE CLAMP®

Pluggable Tap-Off Modules
870 Series
Description and Installation



Snapping tap-off and spacer modules together to assemble a multipole tap-off module (max. 10 poles).



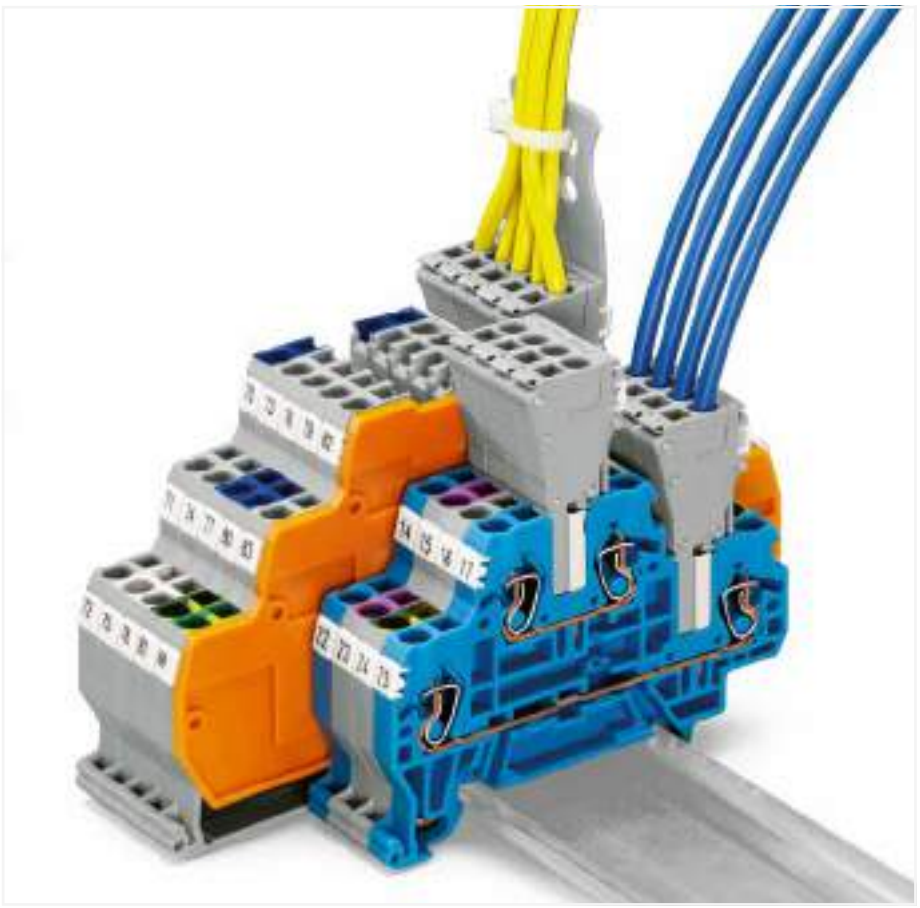
Module assembly with CAGE CLAMP® connections (0.25 … 2.5 mm²/24 … 14 AWG), including strain relief plate and marker slots for Mini-WSB or WMB markers.



The tap-off module assembly can be directly plugged into the jumper contact slot of the current bar. The terminal blocks can also be commoned via push-in type jumper bars parallel to the jumper slots being used by the modules.



CAGE CLAMP® termination:
Tap-off modules are used when additional or removable connections are required (can be used as a permanent connection or a test plug).
Wiring is possible whether the modules are plugged into the assembly or not.





Using anti-reverse mating modules at both ends of a module assembly prevents reverse mating.



Three anti-reverse mating modules are necessary when snapping more than seven tap-off modules together.



Testing is also possible using a pre-wired tap-off module assembly in the very same way as test plugs.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands

CAGE CLAMP®

Pluggable Tap-Off Module
870 Series

Technical Data	
0.25 … 2.5 mm²	22 … 14 AWG
500 V / 6 kV / 3 ❶	
I_N 18 A	
Module width: 5 mm / 0.197 inch	
10 mm / 0.38 inch	



Pluggable tap-off module; with anti-reverse mating protection; snaps together; for 870 Series Rail-Mount Terminal Blocks with jumper slots in the current bar

Color	Item No.	Pack. Unit
gray	870-425	100 (25)

Technical Data	
0.25 … 2.5 mm²	22 … 14 AWG
500 V / 6 kV / 3 ❶	
I_N 10 A	
Module width: 5 mm / 0.197 inch	
10 mm / 0.38 inch	



Pluggable tap-off module; snaps together; for 870 Series Rail-Mount Terminal Blocks with jumper slots in the current bar

Color	Item No.	Pack. Unit
gray	870-426	100 (25)

Spacer module; snaps together; bridges terminal blocks

gray	870-427	100 (25)

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

Accessories; for pluggable tap-off modules

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

Strain relief plate; gray



35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

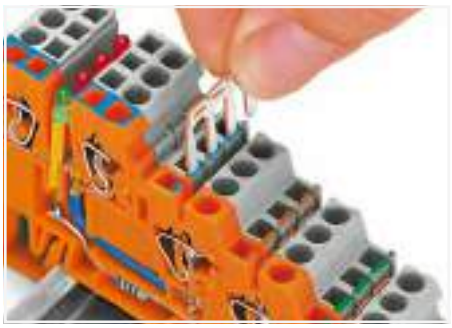
WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	793-501	5

8

CAGE CLAMP®

Sensor Terminal Blocks and Actuator Terminal Blocks
270 Series
Description and Installation



Inserting a jumper.



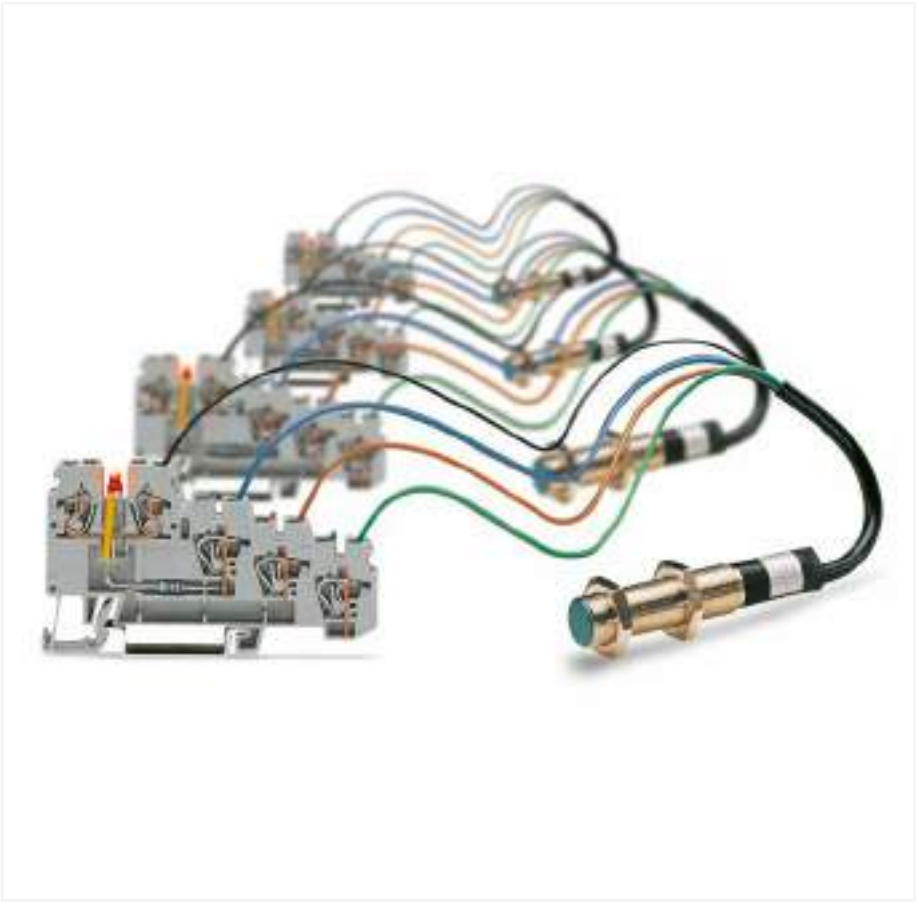
Commoning a supply voltage using uninsulated push-in type jumper bars, 2- to 9-way or 17-way (2 x 8 bits), depending on application.



Commoning signal level voltage via insulated push-in type jumper bars (870 Series) –
2- to 9-way, depending on application.
Sensor LED terminal blocks cannot be commoned!



Terminal block assembly:
Sensor terminal blocks





Terminal block assembly:
Sensor LED terminal blocks



Marking strip (Item No. 709-196)
Not suitable for LED terminal blocks!



Sensor LED terminal block

CAGE CLAMP® terminates the following copper conductors:

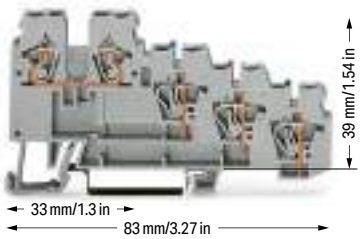
solid "s"	stranded "st"	fine-stranded "f-st", also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

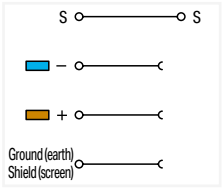
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

4-Conductor Sensor Terminal Block and 4-Conductor Sensor LED Terminal Block
2.5 mm²; 270 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	300 V, 20 A
I_N 18 A ❷	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

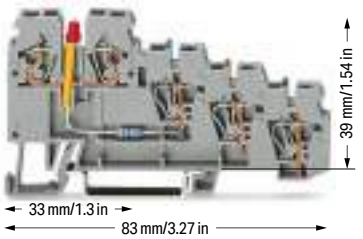




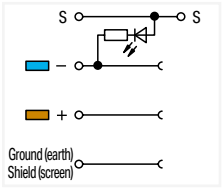
4-conductor sensor terminal block

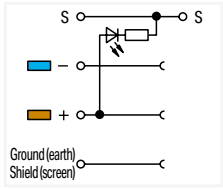
Color	Item No.	Pack. Unit
gray	270-570	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



270-570/281-434 270-570/281-434



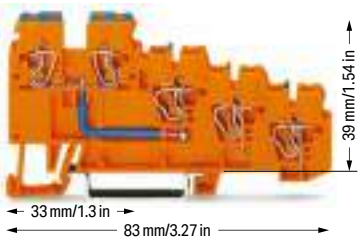


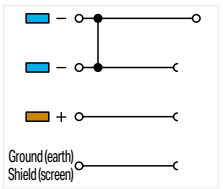
4-conductor sensor LED terminal block; for PNP (high-side) switching sensors; Red LED

Color	Item No.	Pack. Unit
gray	270-570/281-434	50

4-conductor sensor LED terminal block; for NPN (low-side) switching sensors; Yellow LED

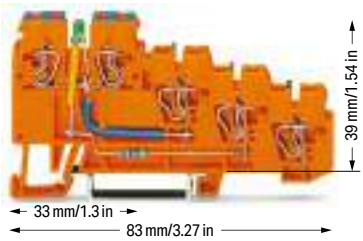
Color	Item No.	Pack. Unit
gray	270-570/281-507	50

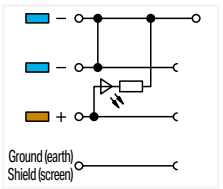




4-conductor sensor supply terminal block; Internal bridge: 9 A

Color	Item No.	Pack. Unit
orange	270-574	10





4-conductor sensor LED supply terminal block; Green LED

Color	Item No.	Pack. Unit
orange	870-574/281-483	10

*12 AWG: THHN, THWN

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Internal bridge: 9 A

❸ Other voltages are available upon request.
LED power consumption: 4.8 mA

See application notes for:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	270-322	100 (25)
gray	270-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Push-in type jumper bar; uninsulated; I_N 18 A
Jumpers can be shortened using an electronic side cutter.



9-way	270-409	200 (25)
17-way	270-417	200 (25)
80-way	270-480	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	50 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



	210-720	1

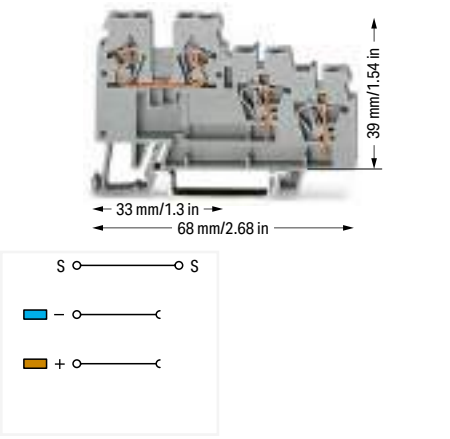
8

3-Conductor Sensor Terminal Block and 3-Conductor Sensor LED Terminal Block
2.5 mm²; 270 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	300 V, 20 A
I_N 18 A ❷	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

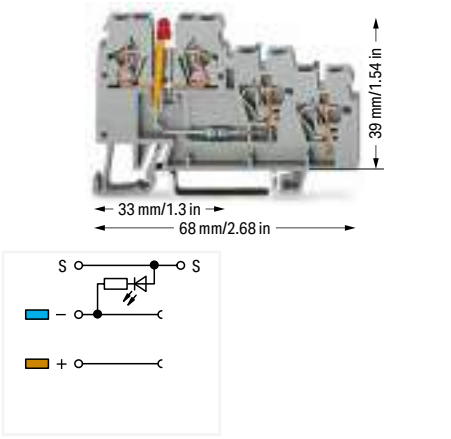
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



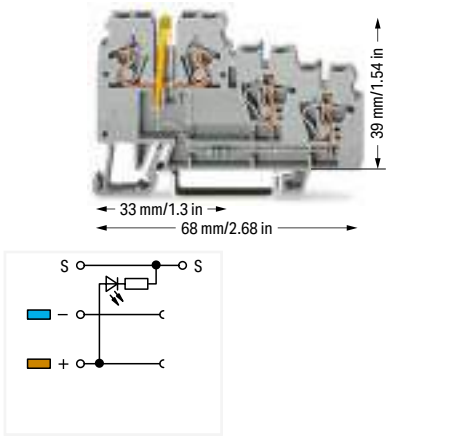
3-conductor sensor terminal block

Color	Item No.	Pack. Unit
gray	270-560	50



3-conductor sensor LED terminal block; for PNP (high-side) switching sensors; Red LED

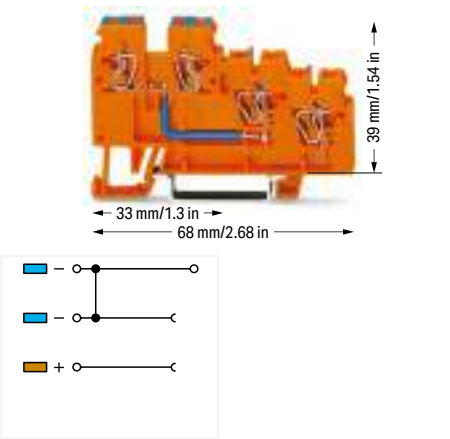
Color	Item No.	Pack. Unit
gray	270-560/281-434	50



3-conductor sensor LED terminal block; for NPN (low-side) switching sensors; Yellow LED

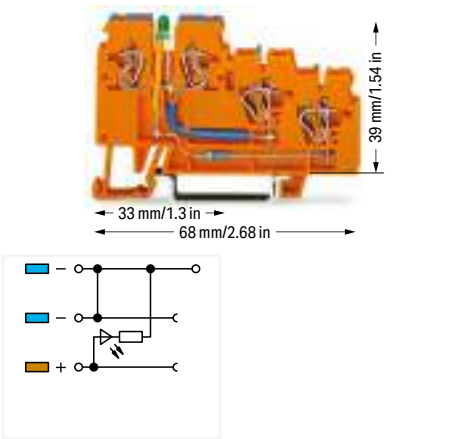
Color	Item No.	Pack. Unit
gray	270-560/281-507	50

8



3-conductor sensor supply terminal block; Internal bridge: 9 A

Color	Item No.	Pack. Unit
gray	270-564	10



3-conductor sensor LED supply terminal block; Green LED

Color	Item No.	Pack. Unit
gray	270-564/281-483	10

Pluggable tap-off modules (Item No. 870-425, 870-426, 870-427) can be used on the signal level.

3-Conductor Actuator Terminal Block and 3-Conductor Actuator LED Terminal Block
2.5 mm²; 270 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V / 4 kV / 3 ❶	300 V, 20 A
I_N 18 A ❷	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

*12 AWG: THHN, THWN

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

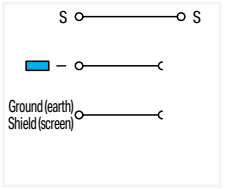
❷ Other voltages are available upon request.
LED power consumption: 4.8 mA

See application notes for:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

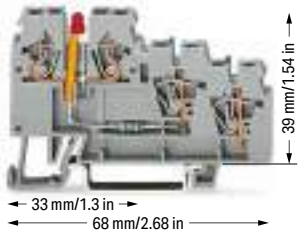


270-572

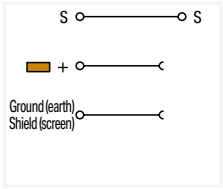


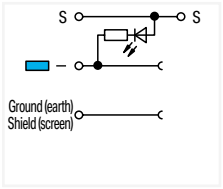
3-conductor actuator terminal block		
Color	Item No.	Pack. Unit
gray	270-572	50

3-conductor actuator terminal block		
gray	270-585	50



270-585

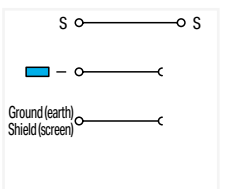




3-conductor actuator LED terminal block; for PNP (high-side) switching actuators; Red LED		
Color	Item No.	Pack. Unit
gray	270-572/281-434	50

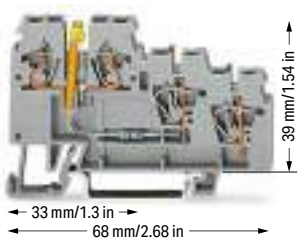


270-577

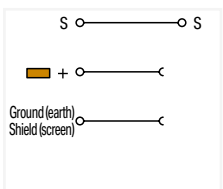


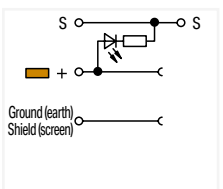
3-conductor actuator supply terminal block		
Color	Item No.	Pack. Unit
orange	270-577	10

3-conductor actuator supply terminal block		
orange	270-586	10



270-586





3-conductor actuator LED terminal block; for NPN (low-side) switching actuators; Yellow LED		
Color	Item No.	Pack. Unit
gray	270-585/281-507	50

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks



orange	270-321	100 (25)
gray	270-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Push-in type jumper bar; uninsulated; I_N 18 A
Jumpers can be shortened using an electronic side cutter.



9-way	270-409	200 (25)
17-way	270-417	200 (25)
80-way	270-480	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	50 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

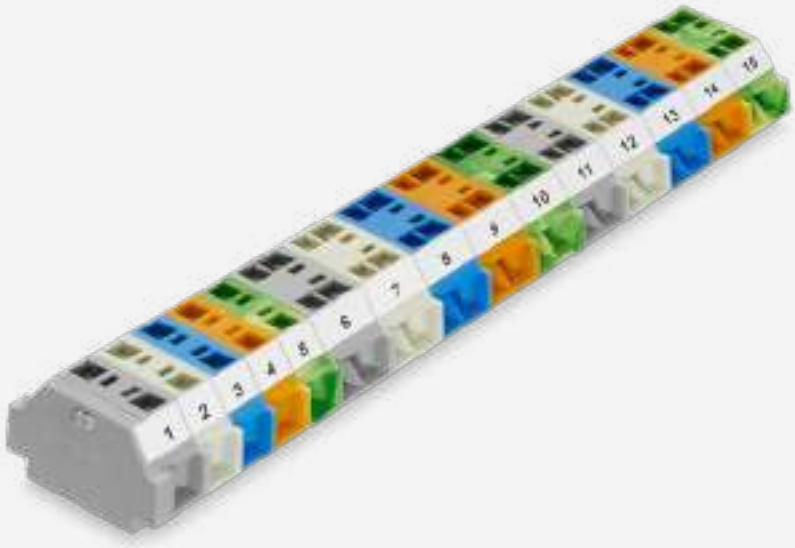
plain	793-5501	5

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



	210-720	1

8



WAGO Modular Terminal Blocks and WAGO Terminal Strips

CAGE CLAMP®

WAGO Modular Terminal Blocks and WAGO Terminal Strips

			Page
	**Modular Terminal Blocks and Terminal Strips; with Mounting Flanges or Snap-In Mounting Feet – Front-Entry Wiring** 2.5 (4 “f-st”) mm² (12 AWG)	869 Series	527
	**Modular Terminal Blocks and Terminal Strips; with Mounting Flanges or Snap-In Mounting Feet – Front-Entry Wiring** 2.5 mm² (14 AWG)	264 Series	532
	**Modular Terminal Blocks and Terminal Strips; with Mounting Flanges or Snap-In Mounting Feet – Side-Entry Wiring** 0.08 … 1.5 mm² (28 … 16 AWG) / 2.5 mm² (14 AWG) / 4 mm² (12 AWG)	260/261/262 Series	538
	**Modular Terminal Blocks and Terminal Strips; with Push-Buttons on One or Both Sides** 0.08 … 1.5 mm² (28 … 16 AWG)	261 Series	542
	**Modular Terminal Blocks and Terminal Strips with Mini-WSB Marker Slot and Push-Buttons on One or Both Sides** 1.5 mm² (16 AWG)	261 Series	546
	**Accessories for Modular Terminal Blocks and Terminal Strips**	260/261/262 Series	552

9

CAGE CLAMP®

Modular Terminal Blocks and Terminal Strips
869 Series
Description and Installation



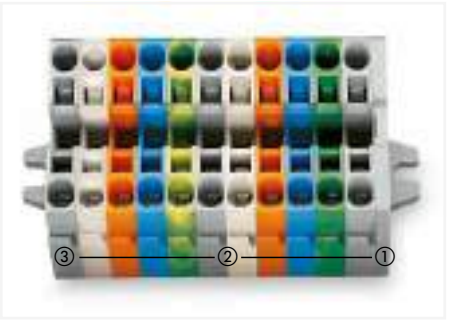
Mounting and securing a terminal strip directly to the plate via screw-type flanges.



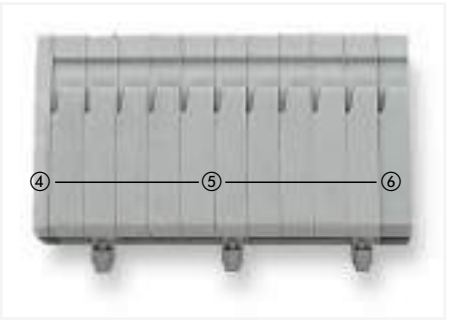
Mounting a terminal strip with snap-in feet into holes.



Mounting a terminal strip with snap-in feet onto the aluminum rail.



Terminal strip with mounting flanges:
- End plate with mounting flange ①
- Center terminal blocks ②
- End terminal block with mounting flange ③



Terminal strip with snap-in mounting feet:
- End plate ④
- Center terminal blocks with/without snap-in mounting feet ⑤
- End terminal block with/without snap-in mounting foot ⑥





WMB markers in Mini-WSB marker slots
Translucent marking strip
Mini-WSB markers



Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side until installed.
Push-in type jumper bars 1 – 3 – 5 – 7 or 1 – 4 – 7 are available upon request.



Protective warning marker (280-405); with a black high-voltage symbol

CAGE CLAMP® terminates the following copper conductors:

solid "s"	stranded "st"	fine-stranded "f-st", also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

Compact Terminal Strips; with Mounting Flanges or Snap-in Mounting Feet
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm²	28 … 12 AWG
500 V / 6 kV / 3	300 V, 20 A
I_N 24 A	
Pole width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Pole width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Pole width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	







Compact terminal strip; with M3 mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	869-102	100
3	869-103	100
4	869-104	100
5	869-105	100
6	869-106	50
7	869-107	50
8	869-108	50
9	869-109	50
10	869-110	50
11	869-111	25
12 ❶	869-112	25

light gray

2	869-132	100
3	869-133	100
4	869-134	100
5	869-135	100
6	869-136	50
7	869-137	50
8	869-138	50
9	869-139	50
10	869-140	25
11	869-141	25
12 ❶	869-142	25

Compact terminal strip; with M4 mounting flanges; for screw or similar mounting types; 4.2 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	869-202	100
3	869-203	100
4	869-204	100
5	869-205	100
6	869-206	50
7	869-207	50
8	869-208	50
9	869-209	50
10	869-210	25
11	869-211	25
12 ❶	869-212	25

light gray

2	869-232	100
3	869-233	100
4	869-234	100
5	869-235	100
6	869-236	50
7	869-237	50
8	869-238	50
9	869-239	50
10	869-240	25
11	869-241	25
12 ❶	869-242	25

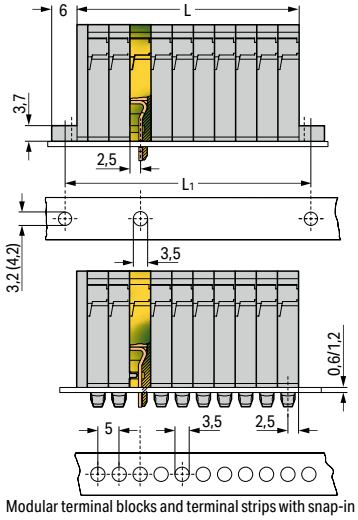
Compact terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 + 0.1 mm mounting hole diameter; gray

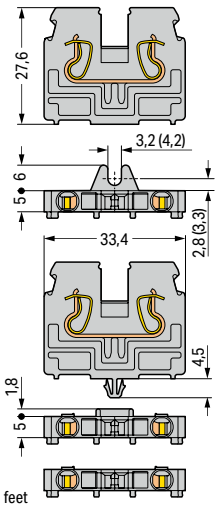
Pole No.	Item No.	Pack. Unit
2	869-152	100
3	869-153	100
4	869-154	100
5	869-155	100
6	869-156	50
7	869-157	50
8	869-158	50
9	869-159	50
10	869-160	25
11	869-161	25
12 ❶	869-162	25

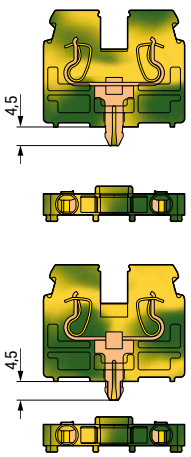
light gray

2	869-182	100
3	869-183	100
4	869-184	100
5	869-185	100
6	869-186	50
7	869-187	50
8	869-188	50
9	869-189	50
10	869-190	25
11	869-191	25
12 ❶	869-192	25

Modular terminal blocks and terminal strips with mounting flanges
L = (pole no. x pole width) + 2.5 mm L_1 = L + 5.6 mm, with flange M4 6.6 mm







Modular terminal blocks and terminal strips with snap-in mounting feet
L = (pole no. x pole width) + 2.5 mm

Dimensions in mm

❶ Longer strips and/or mixed-color assemblies are available upon request.

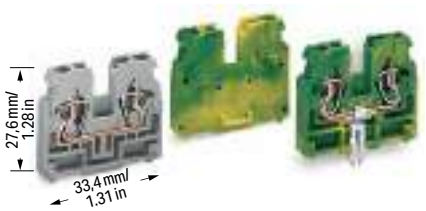
Item no. suffixes for gray terminal strips in:
blue …/000-006 ❷
green-yellow …/000-016
869-102 … 869-112
869-202 … 869-212
869-152 … 869-162

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.

9

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Center terminal block; without snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	869-321	100
blue	869-324 ❸	100
orange	869-326	100
green-yellow	869-327	100
light gray	869-329	100

Center terminal block; with direct ground contact; 3.5 + 0.1 mm drilled hole diameter; required between end plate and end terminal block for terminal strips with mounting flanges
Notice: Terminal block cannot be commoned!

Color	Item No.	Pack. Unit
green-yellow	869-328	100

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



End terminal block; with M3 mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-301	100
blue	869-304 ❸	100
green-yellow	869-307	100
light gray	869-309	100

End terminal block; with M4 mounting flange; for screw or similar mounting types; 4.2 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-351	100
blue	869-354 ❸	100
green-yellow	869-357	100
light gray	869-359	100

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



End terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 + 0.1 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-331	100
blue	869-334 ❸	100
green-yellow	869-337	100
light gray	869-339	100

End terminal block; without snap-in mounting foot; for 0.6 … 1.2 mm plate thickness

Color	Item No.	Pack. Unit
gray	869-341	100
blue	869-344 ❸	100
green-yellow	869-347	100
light gray	869-349	100

Accessories; item-specific

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



	210-154	1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



	209-122	25

Accessories; 869 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End plate; with M3 mounting flange; 2.5 mm thick



gray	869-385	100 (25)
blue	869-388	100 (25)
green-yellow	869-389	100 (25)
light gray	869-387	100 (25)

End plate; with M4 mounting flange; 2.5 mm thick



gray	869-395	100 (25)
blue	869-398	100 (25)
green-yellow	869-399	100 (25)
light gray	869-397	100 (25)

End plate; for terminal blocks with snap-in mounting foot; 2.5 mm thick



gray	869-375	100 (25)
blue	869-378	100 (25)
green-yellow	869-379	100 (25)
light gray	869-377	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip



white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Technical Data

0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Insulation stop, page 425
Group marker carrier, page 513

Approvals and corresponding ratings, visit www.wago.com

Center terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 + 0.1 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-311	100
blue	869-314 ❸	100
orange	869-316	100
green-yellow	869-317	100
light gray	869-319	100

Accessories; 869 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white — 2009-145 — 1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain — 248-501 — 5

Group marker carrier; fits into the jumper slot of the current bars



gray — 870-184 — 50 (25)



Terminal strip; with M3 or M4 mounting flanges; for screw or similar mounting types
Mounting holes:
3.2 mm Ø; M3 flange
4.2 mm Ø; M4 flange



Terminal strips with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; mounting holes: $3.5^{+0.1}$ mm Ø



Inserting insulation stops into conductor entry holes of terminal strip.

The wiring of programmable logic controllers and microprocessor-operated control circuits often relies on very small, fine-stranded conductors. These conductors are highly flexible and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

The solution: an insulation stop for compact terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit

The insulation stop is available as dividable 5-pole strip for the 869 Series Terminal Strips.

Insulation stop usage will not affect the conductor strip lengths for the aforementioned terminal strips.

Accessories; item-specific

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 — 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 — 25

Push-in type jumper bar; insulated; I_N 18 A; light gray



1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

transluscent — 709-196 — 1

Modular Terminal Blocks and Terminal Strips
264 Series
Description and Installation


Assembling modular terminal blocks into terminal strips.


Mounting an “end terminal block” with mounting flange.


Mounting an end plate.


CAGE CLAMP® termination:
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor’s nominal cross section.


Removing a terminal block.




Commoning with comb-style jumper bar.


Marking with T-marker tag (209-290).



Combining 2- and 4-conductor terminal blocks.
Marking via Mini-WSB Quick Marking System.


CAGE CLAMP® terminates the following copper conductors:
solid “s”


stranded “st”


fine-stranded “f-st”, also with tinned single strands



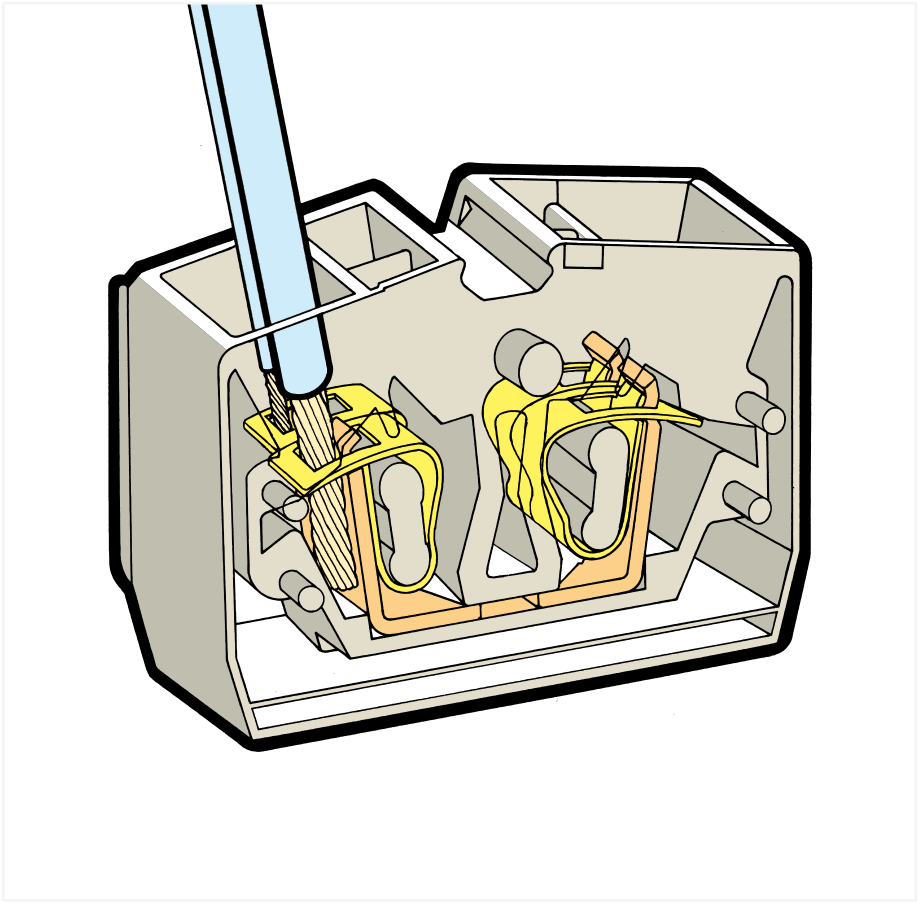
Mounting and securing a terminal strip directly to the plate via screw-type flanges.



Mounting a terminal strip with snap-in feet into holes.



Mounting a terminal strip with snap-in feet onto the aluminum mounting rail.





Testing by touch contact to the CAGE CLAMP® spring (limited to 0.5 A and 48 V test voltage) – test pins are not protected against accidental contact.



Testing via CAGE CLAMP® on the current bar (max. nominal current: 6 A).
CAGE CLAMP® clamps individual test contacts.
The maximum test voltage is 400 V.



Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter



Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 15)

See application notes for:
Alternate comb-style jumper bar, page 426
Test plug module, page 420
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor center terminal block; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	264-321	100
blue	264-324 ❷	100
orange	264-326	100
green-yellow	264-327	100
light gray	264-131 ❸	100

4-conductor center terminal block; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	264-351	100
blue	264-354 ❷	100
orange	264-356	100
green-yellow	264-357	100
light gray	264-231 ❸	100



Terminal strip with mounting flanges, consisting of:
- End plate; with mounting flange
- Center terminal blocks
- End terminal block; with mounting flange

2-conductor end terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter

gray	264-301	100
blue	264-304 ❷	100
orange	264-306	100
green-yellow	264-307	100
light gray	264-130 ❸	100

4-conductor end terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter

gray	264-331	100
blue	264-334 ❷	100
orange	264-336	100
green-yellow	264-337	100
light gray	264-230 ❸	100

9

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Test plug module; snaps together; 6 mm wide



gray	249-136	100 (25)

Test plug module; snaps together; 10 mm wide



gray	249-139	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

	264-900	5

Accessories; 264 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick



gray	264-361	25
orange	264-364	25
light gray	264-363	25

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way	264-402	200 (25)

T-marker tag; 30 markers per tag; up to 6 characters per marker; stretchable 5 … 6 mm



plain	209-290	50

Operating tool; insulated

2-way	280-432	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

CAGE CLAMP®

Modular Terminal Block; with Snap-In Mounting Foot
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 15)

See application notes for:
Alternate comb-style jumper bar, page 426
Test plug module, page 420
Mini-WSB marking system, page 684

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	264-311	100
blue	264-314 ❷	100
orange	264-316	100
green-yellow	264-317	100
light gray	264-180 ❸	100

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	264-341	100
blue	264-344 ❷	100
orange	264-346	100
green-yellow	264-347	100
light gray	264-280 ❸	100



Terminal strip with mounting flanges, consisting of:
End plate
- 4-conductor terminal strip; with snap-in mounting foot1)
- Center terminal blocks
- 2-conductor terminal strip; with snap-in mounting foot1)

1) at every 4th or 5th terminal block of the strip

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)

Test plug module; snaps together; 6 mm wide



gray	249-136	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide



gray	249-139	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

	264-900	5

Accessories; 264 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick



gray	264-371	25
orange	264-374	25
light gray	264-373	25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way	264-402	200 (25)

Operating tool; insulated

2-way	280-432	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red	210-136	50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



	210-154	1

Plastic end stop; with WSB marker slot; for aluminum mounting rail (210-154); 6 mm wide



	209-122	25

T-marker tag; 30 markers per tag; up to 6 characters per marker; stretchable 5 … 6 mm



plain	209-290	50

Mini-WSB Inline, plain; 1,700 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable



white	2009-145	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



	210-720	1

9

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



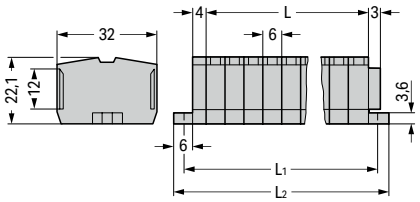
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
690 V ❷	300 V, 20 A
I_N 23 A	600 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

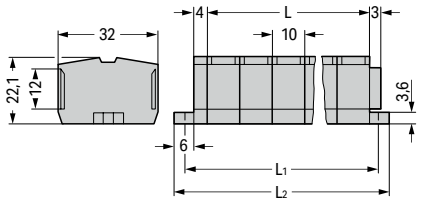


Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges

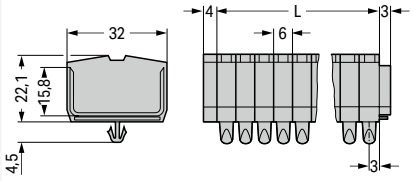
L = pole no. x pole width $L_1 = L + 9.6$ mm $L_2 = L + 16$ mm

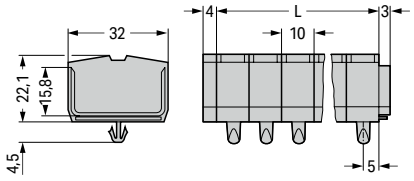




Modular terminal blocks and terminal strips with snap-in mounting feet

L = (pole no. x pole width) + 7 mm





9

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	264-102	100
3	264-103	100
4	264-104	100
5	264-105	100
6	264-106	100
7	264-107	100
8	264-108	100
9	264-109	50
10	264-110	50
11	264-111	50
12 ❸	264-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	264-202	100
3	264-203	100
4	264-204	100
5	264-205	100
6	264-206	100
7	264-207	100
8	264-208	100
9	264-209	50
10	264-210	50
11	264-211	25
12 ❸	264-212	25

2-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; light gray

Pole No.	Item No.	Pack. Unit
2	264-132	100
3	264-133	100
4	264-134	100
5	264-135	100
6	264-136	100
7	264-137	100
8	264-138	100
9	264-139	50
10	264-140	50
11	264-141	25
12 ❸	264-142	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	264-152	100
3	264-153	100
4	264-154	100
5	264-155	100
6	264-156	50
7	264-157	50
8	264-158	50
9	264-159	50
10	264-160	25
11	264-161	25
12 ❸	264-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	264-252	100
3	264-253	100
4	264-254	100
5	264-255	100
6	264-256	50
7	264-257	50
8	264-258	50
9	264-259	50
10	264-260	25
11	264-261	25
12 ❸	264-262	25

2-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; light gray

Pole No.	Item No.	Pack. Unit
2	264-182	100
3	264-183	100
4	264-184	100
5	264-185	100
6	264-186	50
7	264-187	50
8	264-188	50
9	264-189	50
10	264-190	25
11	264-191	25
12 ❸	264-192	25

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
690 V ❷	300 V, 20 A
I_N 23 A	600 V, 20 A
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Suitable for Ex e II applications
(see Section 15)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com



Snapping individual modules together to assemble a multi-pole test plug module.



Item no. suffixes for gray terminal strips with mounting flanges:
264-102 to 264-112
264-202 to 264-212

blue …/000-006,
Terminal strips with a blue insulated housing are suitable for Ex i applications.



Item no. suffixes for gray terminal strips with snap-in mounting feet:
264-152 to 264-162
264-252 to 264-262

blue …/000-006,
Terminal strips with a blue insulated housing are suitable for Ex i applications.

9

4-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; light gray

Pole No.	Item No.	Pack. Unit
2	264-232	100
3	264-233	100
4	264-234	100
5	264-235	100
6	264-236	100
7	264-237	100
8	264-238	100
9	264-239	50
10	264-240	50
11	264-241	100
12 ❸	264-242	25



Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter



Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter

4-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; light gray

2	264-282	100
3	264-283	100
4	264-284	100
5	264-285	100
6	264-286	100
7	264-287	50
8	264-288	50
9	264-289	50
10	264-290	25
11	264-291	25
12 ❸	264-292	25

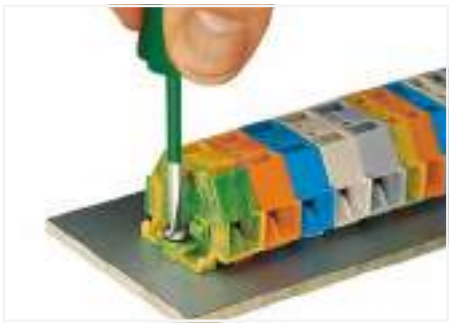
Modular Terminal Blocks and Terminal Strips
260 to 262 Series
Description and Installation



Assembling modular terminal blocks into terminal strips.



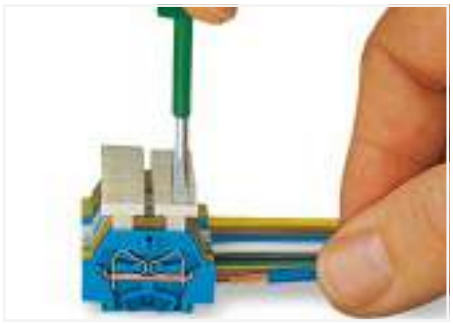
Mounting an end plate.



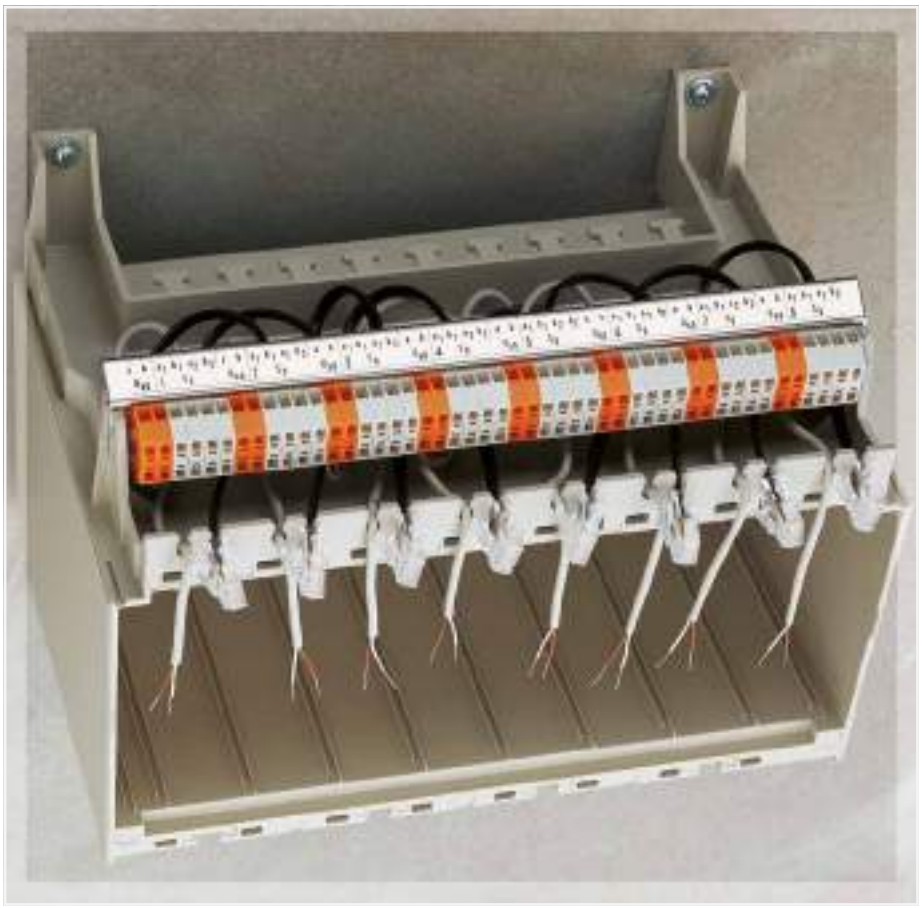
Mounting and securing a terminal strip directly to the plate via screw-type flanges.



CAGE CLAMP® termination:
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

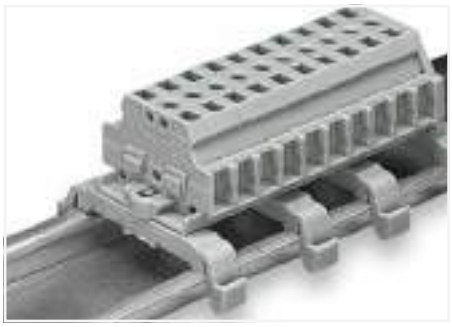


CAGE CLAMP® termination:
Inserting a conductor via push-button.





Terminal strip; with push-buttons on one side



Terminal strip; with marker slot for Mini-WSB Quick Marking System



Commoning with comb-style jumper bar.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands



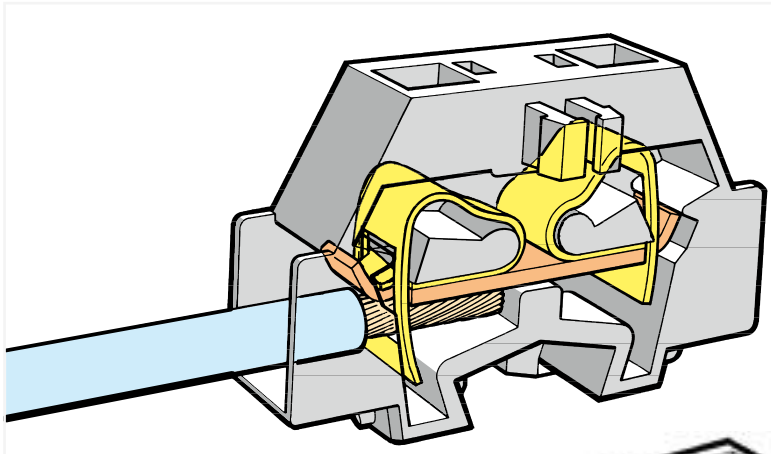
Mounting a terminal strip with snap-in feet into holes.

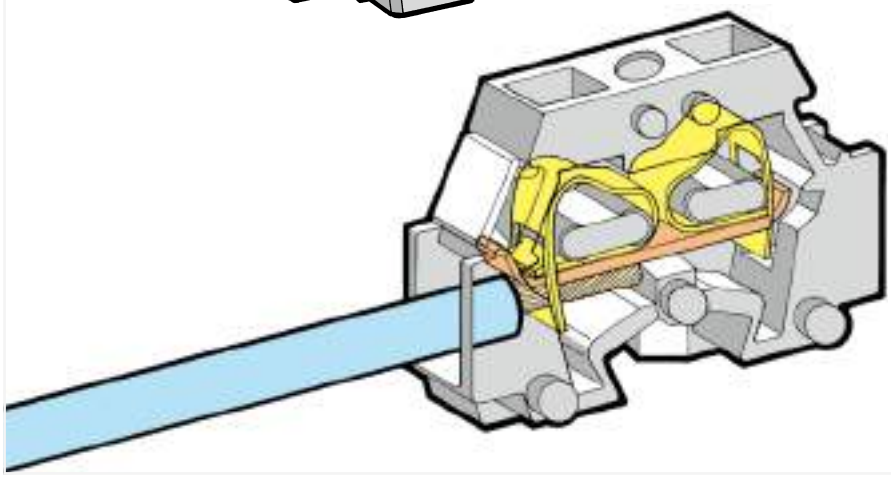


Mounting a terminal strip with snap-in feet onto the aluminum rail.



Mounting and securing a terminal strip directly to the plate via screw-type flanges.
screwing a mounting foot (209-123)
(distance between mounting feet: approx. 20 … 25 mm)







Terminal strip; with mounting flanges; for DIN-35 rail



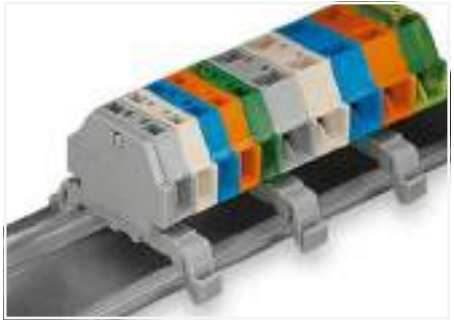
Terminal strip; with snap-in mounting feet; snapping a mounting foot (209-120)
(distance between mounting feet: approx. 20 … 25 mm)



Marking with self-adhesive marking strips.



Marking by direct printing (upon request).



Terminal strip; with snap-in mounting feet; for DIN-35 rail



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
1.5 mm²; 260 Series

Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Terminal block width: 8 mm / 0.315 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

See application notes for:
Test plug module, page 420

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	260-301	300 (50)
light gray	260-303	300 (50)
blue	260-304	300 (50)
orange	260-306	300 (50)
green-yellow	260-307	300 (50)

4-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	260-331	300 (50)
light gray	260-333	300 (50)
blue	260-334	300 (50)
orange	260-336	300 (50)
green-yellow	260-337	300 (50)

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	260-311	300 (50)
light gray	260-313	300 (50)
blue	260-314	300 (50)
orange	260-316	300 (50)
green-yellow	260-317	300 (50)

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	260-341	300 (50)
light gray	260-343	300 (50)
blue	260-344	300 (50)
orange	260-346	300 (50)
green-yellow	260-347	300 (50)

Space-saving 2-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	260-321	300 (50)
light gray	260-323	300 (50)
blue	260-324	300 (50)
orange	260-326	300 (50)
green-yellow	260-327	300 (50)

Space-saving 4-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	260-351	300 (50)
light gray	260-353	300 (50)
blue	260-354	300 (50)
orange	260-356	300 (50)
green-yellow	260-357	300 (50)

Accessories; item-specific

Test plug module; snaps together; 5 mm wide



gray | 249-135 | 100 (25)

Test plug module; with locking latches; snaps together; 5 mm wide



gray | 260-404 | 100 (25)

Accessories; item-specific

Test plug module; snaps together; 8 mm wide



gray | 249-138 | 100 (25)

Test plug module; with locking latches; snaps together; 8 mm wide



gray | 260-405 | 100 (25)

Accessories; 260 Series

Marking accessories, see Section 14

End plate; with mounting flange



gray | 260-361 | 300 (50)

End plate; with snap-in mounting foot



gray | 260-371 | 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1 mm²; I_N 10 A; gray



2-way | 260-402 | 25

Operating tool; insulated; for comb-style jumper bar



2-way | 209-132 | 1

Accessories; 260 Series

Marking accessories, see Section 14

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red | 210-136 | 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 | 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 | 25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray | 209-120 | 25

Mounting screw; for mounting foot (209-120)

209-119 | 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray | 209-123 | 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray | 209-137 | 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 | 1

9

CAGE CLAMP®

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
1.5 mm²; 260 Series

Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Pole width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V / 6 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Pole width: 8 mm / 0.315 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com

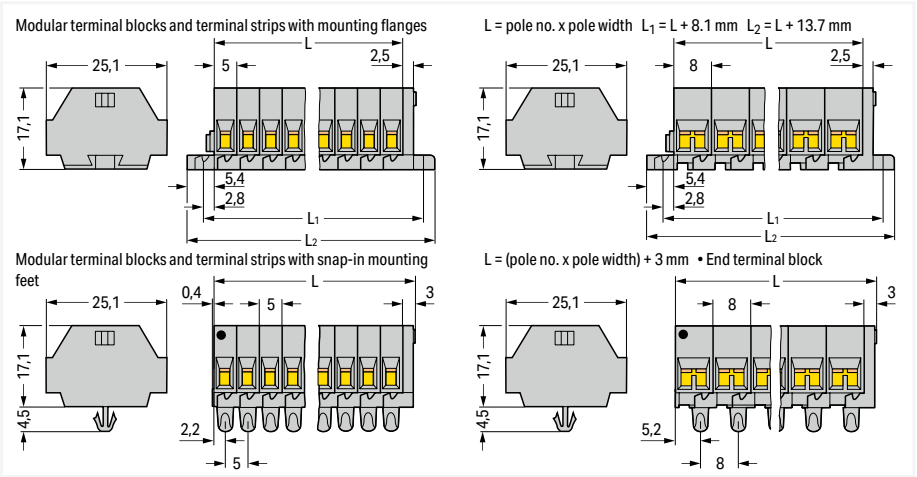


Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

Dimensions in mm



2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	260-102	100
3	260-103	100
4	260-104	100
5	260-105	100
6	260-106	100
7	260-107	100
8	260-108	100
9	260-109	50
10	260-110	50
11	260-111	50
12 ❷	260-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	260-202	100
3	260-203	100
4	260-204	100
5	260-205	100
6	260-206	100
7	260-207	100
8	260-208	100
9	260-209	50
10	260-210	50
11	260-211	25
12 ❷	260-212	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray

2	260-152	100
3	260-153	100
4	260-154	100
5	260-155	100
6	260-156	50
7	260-157	50
8	260-158	50
9	260-159	50
10	260-160	25
11	260-161	25
12 ❷	260-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray

2	260-252	100
3	260-253	100
4	260-254	100
5	260-255	100
6	260-256	50
7	260-257	50
8	260-258	50
9	260-259	50
10	260-260	25
11	260-261	25
12 ❷	260-262	25

9

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Test plug module, page 420

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-301	200 (50)
light gray	261-303	200 (50)
blue	261-304 ❷	200 (50)
orange	261-306	200 (50)
green-yellow	261-307	200 (50)

4-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-331	200 (50)
light gray	261-333	200 (50)
blue	261-334 ❷	200 (50)
orange	261-336	200 (50)
green-yellow	261-337	200 (50)

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-311	200 (50)
light gray	261-313	200 (50)
blue	261-314 ❷	200 (50)
orange	261-316	200 (50)
green-yellow	261-317	200 (50)

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-341	200 (50)
light gray	261-343	200 (50)
blue	261-344 ❷	200 (50)
orange	261-346	200 (50)
green-yellow	261-347	200 (50)

Space-saving 2-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	261-321	200 (50)
light gray	261-323	200 (50)
blue	261-324 ❷	200 (50)
orange	261-326	200 (50)
green-yellow	261-327	200 (50)

Space-saving 4-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	261-351	200 (50)
light gray	261-353	200 (50)
blue	261-354 ❷	200 (50)
orange	261-356	200 (50)
green-yellow	261-357	200 (50)

Accessories; item-specific

Test plug module; snaps together; 6 mm wide



gray | 249-136 | 100 (25)

Test plug module; with locking latches; snaps together; 6 mm wide



gray | 261-404 | 100 (25)

Accessories; item-specific

Test plug module; snaps together; 10 mm wide



gray | 249-139 | 100 (25)

Test plug module; with locking latches; snaps together; 10 mm wide



gray | 261-405 | 100 (25)

Accessories; 261 Series

Marking accessories, see Section 14

End plate; with mounting flange



gray | 261-361 | 300 (50)

End plate; with snap-in mounting foot



gray | 261-371 | 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way | 261-402 | 25

Operating tool; insulated; for comb-style jumper bar



2-way | 209-132 | 1

Accessories; 261 Series

Marking accessories, see Section 14

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red | 210-136 | 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 | 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 | 25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray | 209-120 | 25

Mounting screw; for mounting foot (209-120)

209-119 | 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray | 209-123 | 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray | 209-137 | 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 | 1

9

CAGE CLAMP®

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	





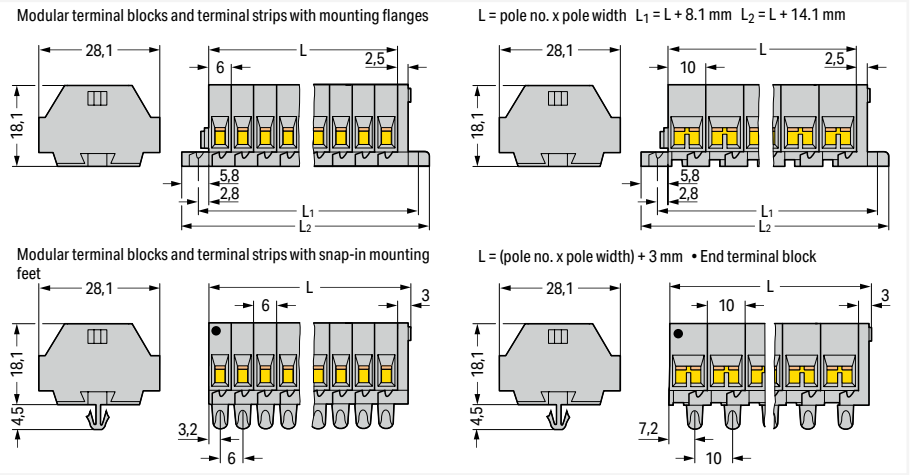
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm





Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

9

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-102	100
3	261-103	100
4	261-104	100
5	261-105	200
6	261-106	50
7	261-107	50
8	261-108	50
9	261-109	50
10	261-110	25
11	261-111	25
12 ❸	261-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-202	100
3	261-203	100
4	261-204	100
5	261-205	100
6	261-206	50
7	261-207	50
8	261-208	50
9	261-209	50
10	261-210	25
11	261-211	25
12 ❸	261-212	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-152	100
3	261-153	100
4	261-154	100
5	261-155	100
6	261-156	50
7	261-157	50
8	261-158	50
9	261-159	50
10	261-160	25
11	261-161	25
12 ❸	261-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-252	100
3	261-253	100
4	261-254	100
5	261-255	100
6	261-256	50
7	261-257	50
8	261-258	50
9	261-259	50
10	261-260	25
11	261-261	25
12 ❸	261-262	25

CAGE CLAMP®

Modular Terminal Block; with Push-Buttons on One Side; with Mounting Flange or Snap-In Mounting Foot

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with push-button on one side; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-301/331-000	200 (50)
light gray	261-303/331-000	200 (50)
blue	261-304/331-000 ❷	200 (50)
orange	261-306/331-000	200 (50)
green-yellow	261-307/331-000	200 (50)

4-conductor terminal block; with push-button on one side; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-331/332-000	200 (50)
light gray	261-333/332-000	200 (50)
blue	261-334/332-000 ❷	200 (50)
orange	261-336/332-000	200 (50)
green-yellow	261-337/332-000	200 (50)

2-conductor terminal block; with push-button on one side; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-311/331-000	200 (50)
light gray	261-313/331-000	200 (50)
blue	261-314/331-000 ❷	200 (50)
orange	261-316/331-000	200 (50)
green-yellow	261-317/331-000	200 (50)

4-conductor terminal block; with push-button on one side; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-341/332-000	200 (50)
light gray	261-343/332-000	200 (50)
blue	261-344/332-000 ❷	200 (50)
orange	261-346/332-000	200 (50)
green-yellow	261-347/332-000	200 (50)

Space-saving 2-conductor end terminal block; with push-button on one side; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	261-321/331-000	200 (50)
light gray	261-323/331-000	200 (50)
blue	261-324/331-000 ❷	200 (50)
orange	261-326/331-000	200 (50)
green-yellow	261-327/331-000	200 (50)

Space-saving 4-conductor end terminal block; with push-button on one side; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	261-351/332-000	200 (50)
light gray	261-353/332-000	200 (50)
blue	261-354/332-000 ❷	200 (50)
orange	261-356/332-000	200 (50)
green-yellow	261-357/332-000	200 (50)

Accessories; 261 Series

Marking accessories, see Section 14

End plate; with mounting flange



gray 261-361 300 (50)

End plate; with snap-in mounting foot



gray 261-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way 261-402 25

Operating tool; insulated; for comb-style jumper bar



2-way 209-132 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 25

Accessories; 261 Series

Marking accessories, see Section 14

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 1

9

CAGE CLAMP®

Terminal Strip; with Push-Buttons on One Side; with Mounting Flanges or Snap-in Mounting Feet
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	
I_N 24 A	
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	
I_N 24 A	
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

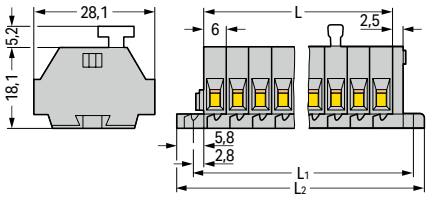
❸ Longer strips and/or mixed-color assemblies are available upon request.

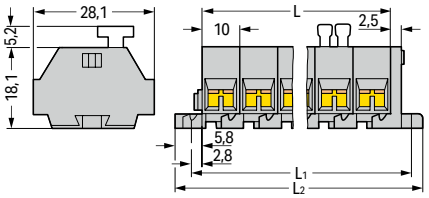
Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges

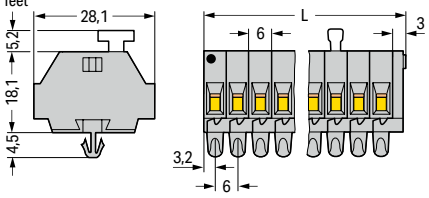
L = pole no. x pole width L_1 = L + 8.1 mm L_2 = L + 14.1 mm

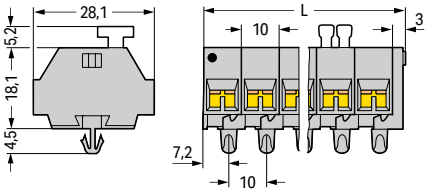




Modular terminal blocks and terminal strips with snap-in mounting feet

L = (pole no. x pole width) + 3 mm • End terminal block





2-conductor terminal strip; with push-buttons on one side; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-102/331-000	100
3	261-103/331-000	100
4	261-104/331-000	100
5	261-105/331-000	200
6	261-106/331-000	50
7	261-107/331-000	50
8	261-108/331-000	50
9	261-109/331-000	50
10	261-110/331-000	25
11	261-111/331-000	25
12 ❸	261-112/331-000	25

4-conductor terminal strip; with push-buttons on one side; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-202/332-000	100
3	261-203/332-000	100
4	261-204/332-000	100
5	261-205/332-000	100
6	261-206/332-000	50
7	261-207/332-000	50
8	261-208/332-000	50
9	261-209/332-000	50
10	261-210/332-000	50
11	261-211/332-000	25
12 ❸	261-212/332-000	50

2-conductor terminal strip; with push-buttons on one side; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-152/331-000	100
3	261-153/331-000	100
4	261-154/331-000	100
5	261-155/331-000	100
6	261-156/331-000	50
7	261-157/331-000	50
8	261-158/331-000	50
9	261-159/331-000	50
10	261-160/331-000	25
11	261-161/331-000	25
12 ❸	261-162/331-000	25

4-conductor terminal strip; with push-buttons on one side; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-252/332-000	100
3	261-253/332-000	100
4	261-254/332-000	100
5	261-255/332-000	100
6	261-256/332-000	50
7	261-257/332-000	50
8	261-258/332-000	50
9	261-259/332-000	50
10	261-260/332-000	25
11	261-261/332-000	100
12 ❸	261-262/332-000	25



Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

9

CAGE CLAMP®

Modular Terminal Block; with Push-Buttons on Both Sides; with Mounting Flange or Snap-In Mounting Foot

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor terminal block; with push-buttons on both sides; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-301/341-000	200 (50)
light gray	261-303/341-000	200 (50)
blue	261-304/341-000 ❷	200 (50)
orange	261-306/341-000	200 (50)
green-yellow	261-307/341-000	200 (50)

2-conductor terminal block; with push-buttons on both sides; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-311/341-000	200 (50)
light gray	261-313/341-000	200 (50)
blue	261-314/341-000 ❷	200 (50)
orange	261-316/341-000	200 (50)
green-yellow	261-317/341-000	200 (50)

Space-saving 2-conductor end terminal block; with push-buttons on both sides; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	261-321/341-000	200 (50)
light gray	261-323/341-000	200 (50)
blue	261-324/341-000 ❷	200 (50)
orange	261-326/341-000	200 (50)
green-yellow	261-327/341-000	200 (50)

Accessories; 261 Series

Marking accessories, see Section 14

End plate; with mounting flange



gray 261-361 300 (50)

End plate; with snap-in mounting foot



gray 261-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray



2-way 261-402 25

Operating tool; insulated; for comb-style jumper bar



2-way 209-132 1

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor terminal block; with push-buttons on both sides; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-331/342-000	200 (50)
light gray	261-333/342-000	200 (50)
blue	261-334/342-000 ❷	200 (50)
orange	261-336/342-000	200 (50)
green-yellow	261-337/342-000	200 (50)

4-conductor terminal block; with push-buttons on both sides; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-341/342-000	200 (50)
light gray	261-343/342-000	200 (50)
blue	261-344/342-000 ❷	200 (50)
orange	261-346/342-000	200 (50)
green-yellow	261-347/342-000	200 (50)

Space-saving 4-conductor end terminal block; with push-buttons on both sides; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	261-351/342-000	200 (50)
light gray	261-353/342-000	200 (50)
blue	261-354/342-000 ❷	200 (50)
orange	261-356/342-000	200 (50)
green-yellow	261-357/342-000	200 (50)

Accessories; 261 Series

Marking accessories, see Section 14

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 25

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 261 Series

Marking accessories, see Section 14

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 1

9

CAGE CLAMP®

Terminal Strip; with Push-Buttons on Both Sides; with Mounting Flanges or Snap-in Mounting Feet

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	
I_N 24 A	
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	
I_N 24 A	
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com

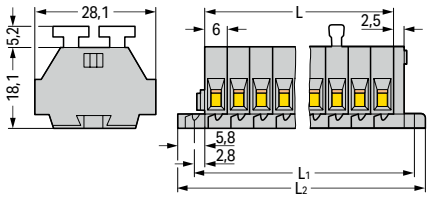


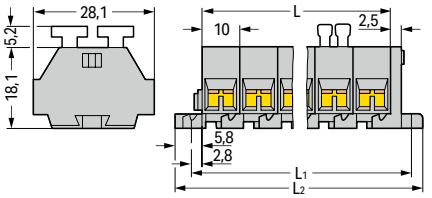
Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges

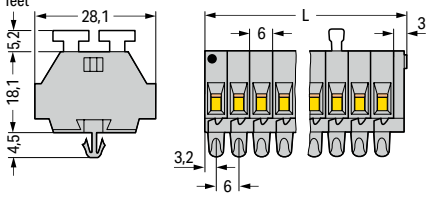
L = pole no. x pole width $L_1 = L + 8.1$ mm $L_2 = L + 14.1$ mm

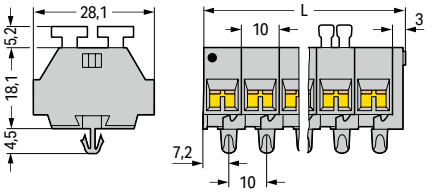




Modular terminal blocks and terminal strips with snap-in mounting feet

L = (pole no. x pole width) + 3 mm • End terminal block







Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

9

2-conductor terminal strip; with push-buttons on both sides; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-102/341-000	100
3	261-103/341-000	100
4	261-104/341-000	50
5	261-105/341-000	100
6	261-106/341-000	25
7	261-107/341-000	50
8	261-108/341-000	50
9	261-109/341-000	100
10	261-110/341-000	25
11	261-111/341-000	25
12 ❸	261-112/341-000	25

4-conductor terminal strip; with push-buttons on both sides; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-202/342-000	100
3	261-203/342-000	100
4	261-204/342-000	100
5	261-205/342-000	100
6	261-206/342-000	50
7	261-207/342-000	50
8	261-208/342-000	100
9	261-209/342-000	50
10	261-210/342-000	25
11	261-211/342-000	25
12 ❸	261-212/342-000	50

2-conductor terminal strip; with push-buttons on both sides; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-152/341-000	100
3	261-153/341-000	100
4	261-154/341-000	50
5	261-155/341-000	100
6	261-156/341-000	100
7	261-157/341-000	50
8	261-158/341-000	50
9	261-159/341-000	50
10	261-160/341-000	25
11	261-161/341-000	25
12 ❸	261-162/341-000	100

4-conductor terminal strip; with push-buttons on both sides; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-252/342-000	100
3	261-253/342-000	100
4	261-254/342-000	100
5	261-255/342-000	100
6	261-256/342-000	50
7	261-257/342-000	50
8	261-258/342-000	50
9	261-259/342-000	50
10	261-260/342-000	25
11	261-261/342-000	100
12 ❸	261-262/342-000	25

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange; with Marker Slot for Mini-WSB Quick Marking System

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

Accessories; 261 Series

Marking accessories, see Section 14

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 1

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

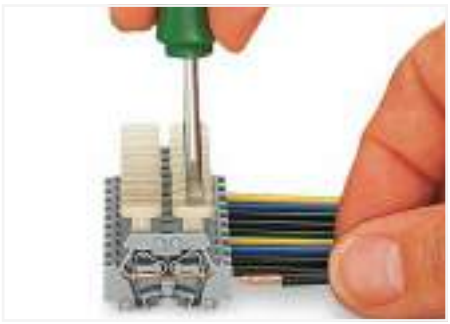
Color	Item No.	Pack. Unit
gray	261-411	200 (50)

2-conductor terminal block; with push-button on one side; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

gray	261-411/331-000	200 (50)

2-conductor terminal block; with push-buttons on both sides; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

gray	261-411/341-000	200 (50)



CAGE CLAMP® termination:
Inserting a conductor via push-button.



Terminal strip; with marker slot for Mini-WSB Quick Marking System

Accessories; 261 Series

Marking accessories, see Section 14

End plate; with mounting flange



gray 261-410 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1 mm²; I_N 10 A; gray



2-way 261-402 25

Operating tool; insulated; for comb-style jumper bar



2-way 209-132 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray 209-137 25



Testing with voltage tester.

9

CAGE CLAMP®

Terminal Strip; with Mounting Flanges; with Marker Slot for Mini-WSB Quick Marking System
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Longer strips are available upon request.

Approvals and corresponding ratings, visit www.wago.com





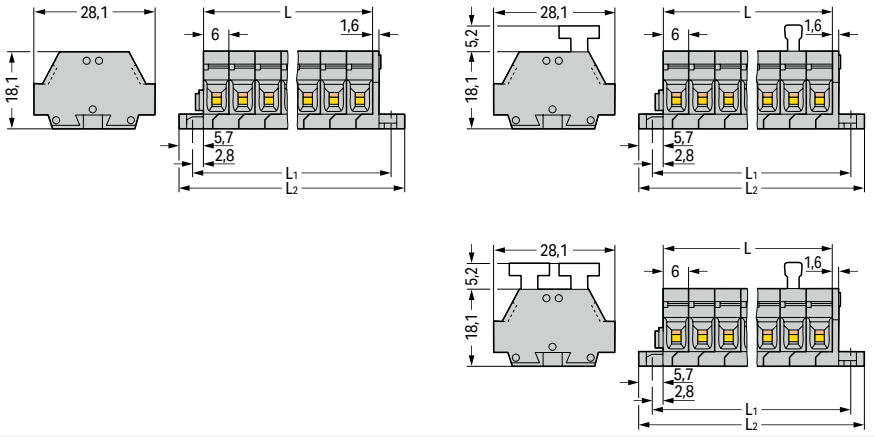


Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges

L = pole no. x pole width L_1 = L + 7.2 mm L_2 = L + 13 mm





Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

9

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	261-422	100
3	261-423	100
4	261-424	100
5	261-425	200
6	261-426	50
7	261-427	50
8	261-428	50
9	261-429	50
10	261-430	25
11	261-431	25
12 ❷	261-432	25

2-conductor terminal strip; with push-buttons on one side; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	261-422/331-000	100
3	261-423/331-000	100
4	261-424/331-000	100
5	261-425/331-000	100
6	261-426/331-000	50
7	261-427/331-000	50
8	261-428/331-000	50
9	261-429/331-000	50
10	261-430/331-000	25
11	261-431/331-000	25
12 ❷	261-432/331-000	25

2-conductor terminal strip; with push-buttons on both sides; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

2	261-422/341-000	100
3	261-423/341-000	100
4	261-424/341-000	100
5	261-425/341-000	100
6	261-426/341-000	50
7	261-427/341-000	50
8	261-428/341-000	50
9	261-429/341-000	50
10	261-430/341-000	25
11	261-431/341-000	25
12 ❷	261-432/341-000	25

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
4 mm²; 262 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	300 V, 20 A
Terminal block width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	



2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	262-301	100 (50)
blue	262-304 ❷	100 (50)
orange	262-306	100 (50)
green-yellow	262-307	100 (50)

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	262-311	100 (50)
blue	262-314 ❷	100 (50)
orange	262-316	100 (50)
green-yellow	262-317	100 (50)

Space-saving 2-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	262-321	100 (50)
blue	262-324 ❷	100 (50)
orange	262-326	100 (50)
green-yellow	262-327	100 (50)

Accessories; item-specific

Test plug module; snaps together; 7 mm wide



gray 249-137 100 (25)

Accessories; 262 Series

Marking accessories, see Section 14

End plate; with mounting flange



gray 262-361 300 (50)

End plate; with snap-in mounting foot



gray 262-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 2.5 mm²; I_N 16 A; gray



2-way 262-402 25

Operating tool; insulated; for comb-style jumper bar



2-way 209-132 1

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V / 8 kV / 3 ❶	300 V, 20 A
I_N 32 A	300 V, 20 A
Terminal block width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	



4-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	262-331	100 (50)
blue	262-334 ❷	100 (50)
orange	262-336	100 (50)
green-yellow	262-337	100 (50)

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

Color	Item No.	Pack. Unit
gray	262-341	100 (50)
blue	262-344 ❷	100 (50)
orange	262-346	100 (50)
green-yellow	262-347	100 (50)

Space-saving 4-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

Color	Item No.	Pack. Unit
gray	262-351	100 (50)
blue	262-354 ❷	100 (50)
orange	262-356	100 (50)
green-yellow	262-357	100 (50)

Accessories; item-specific

Test plug module; snaps together; 12 mm wide



gray 249-140 100 (25)

Accessories; 262 Series

Marking accessories, see Section 14

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 25

❶ 630 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Test plug module, page 420

Approvals and corresponding ratings, visit www.wago.com

Accessories; 262 Series

Marking accessories, see Section 14

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 1

9

CAGE CLAMP®

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
4 mm²; 262 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V / 8 kV / 3 ❶	300 V, 20 A
I_N 24 A	300 V, 20 A
Pole width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V / 8 kV / 3 ❶	300 V, 20 A
I_N 32 A	300 V, 20 A
Pole width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	





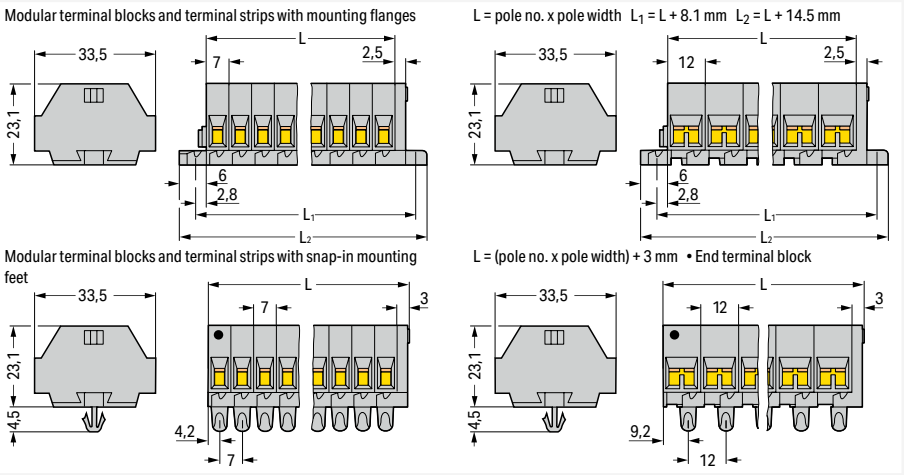
❶ 630 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm





Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

9

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷		
Pole No.	Item No.	Pack. Unit
2	262-102	100
3	262-103	100
4	262-104	100
5	262-105	100
6	262-106	100
7	262-107	100
8	262-108	100
9	262-109	50
10	262-110	25
11	262-111	25
12 ❸	262-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷		
Pole No.	Item No.	Pack. Unit
2	262-202	100
3	262-203	100
4	262-204	100
5	262-205	100
6	262-206	50
7	262-207	50
8	262-208	50
9	262-209	50
10	262-210	25
11	262-211	25
12 ❸	262-212	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷		
2	262-152	100
3	262-153	100
4	262-154	100
5	262-155	100
6	262-156	50
7	262-157	50
8	262-158	50
9	262-159	50
10	262-160	25
11	262-161	25
12 ❸	262-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷		
2	262-252	100
3	262-253	100
4	262-254	100
5	262-255	100
6	262-256	50
7	262-257	50
8	262-258	50
9	262-259	50
10	262-260	25
11	262-261	25
12 ❸	262-262	25

CAGE CLAMP®

Modular Ex Terminal Block; with Mounting Flange or Snap-In Mounting Foot
4 mm²; 262 Series

Technical Data	
0.5 … 4 mm² ❶	28 … 12 AWG
550 V	300 V, 20 A
I_N 23 A	300 V, 20 A
Terminal block width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.5 … 4 mm² ❶	28 … 12 AWG
550 V	300 V, 20 A
I_N 30 A	300 V, 20 A
Terminal block width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	

❶ Using crimped ferrules for corrosion protection, the rated cross section is reduced by one size. For conductor types and conductor preparation, see Section 15 "Electrical Equipment for Hazardous Environments."





2-conductor Ex e II terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
light gray	262-130	100 (50)

4-conductor Ex e II terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
light gray	262-230	100 (50)

2-conductor Ex e II terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

light gray	262-180	100 (50)

4-conductor Ex e II terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

light gray	262-280	100 (50)

Space-saving 2-conductor Ex e II end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

light gray	262-181	100 (50)

Space-saving 4-conductor Ex e II end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

light gray	262-281	100 (50)



CAGE CLAMP® termination:
Inserting a conductor.

9

Accessories; 262 Series

Marking accessories, see Section 14

End plate; with mounting flange

light gray | 262-363 | 50

End plate; with snap-in mounting foot

light gray | 262-373 | 50

Comb-style jumper bar; insulated; reduces maximum conductor size to 2.5 mm²; I_N 16 A; gray



2-way | 262-402 | 25

Operating tool; insulated; for comb-style jumper bar



2-way | 209-132 | 1

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high



210-154 | 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide



209-122 | 25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide



gray | 209-120 | 25

Mounting screw; for mounting foot (209-120)

209-119 | 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide



gray | 209-123 | 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide



gray | 209-137 | 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 | 1



Commoning with comb-style jumper bar.

CAGE CLAMP®

Ex Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
4 mm²; 262 Series

Technical Data	
0.5 … 4 mm² ❶	28 … 12 AWG
550 V	300 V, 20 A
I_N 23 A	300 V, 20 A
Pole width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.5 … 4 mm² ❶	28 … 12 AWG
550 V	300 V, 20 A
I_N 30 A	300 V, 20 A
Pole width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	

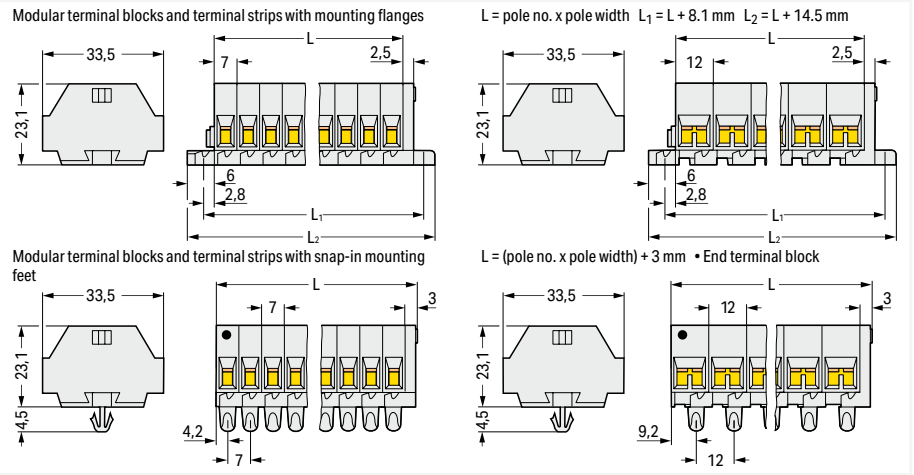
❶ Using crimped ferrules for corrosion protection, the rated cross section is reduced by one size. For conductor types and conductor preparation, see Section 15 "Electrical Equipment for Hazardous Environments."

❸ Longer strips and/or mixed-color assemblies are available upon request.





Dimensions in mm





Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

9

2-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	262-132	100
3	262-133	100
4	262-134	100
5	262-135	100
6	262-136	100
7	262-137	50
8	262-138	50
9	262-139	50
10	262-140	25
11	262-141	25
12 ❷	262-142	25

4-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	262-232	100
3	262-233	100
4	262-234	100
5	262-235	100
6	262-236	50
7	262-237	50
8	262-238	50
9	262-239	50
10	262-240	25
11	262-241	25
12 ❷	262-242	25

2-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	262-182	100
3	262-183	100
4	262-184	100
5	262-185	100
6	262-186	50
7	262-187	50
8	262-188	50
9	262-189	50
10	262-190	25
11	262-191	25
12 ❷	262-192	25

4-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	262-282	100
3	262-283	100
4	262-284	100
5	262-285	100
6	262-286	50
7	262-287	50
8	262-288	50
9	262-289	50
10	262-290	25
11	262-291	25
12 ❷	262-292	25

Test Plug Module; for Terminal Strips without Push-Buttons
260, 261 and 262 Series

Technical Data
for 260 Series
Test voltage: 250 V / 500 V ❶
Test current: 0.5 A / 6 A ❷
Middle pressure: 2.2 N per pole



Test plug module; without locking latches; snaps together; for 2-conductor terminal blocks Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	249-135	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks Module width: 8 mm		
gray	249-138	100 (25)

Test plug module; with locking latches; snaps together; for 2-conductor terminal blocks Module width: 5 mm		
gray	260-404	100 (25)

Test plug module; with locking latches; snaps together; for 4-conductor terminal blocks Module width: 8 mm		
gray	260-405	100 (25)

Technical Data
for 261 Series (also 264 Series)
Test voltage: 400 V / 800 V ❶
Test current: 0.5 A / 6 A ❷
Middle pressure: 2.2 N per pole



Test plug module; without locking latches; snaps together; for 2-conductor terminal blocks Module width: 6 mm		
Color	Item No.	Pack. Unit
gray	249-136	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks Module width: 10 mm		
gray	249-139	100 (25)

Test plug module; with locking latches; snaps together; for 2-conductor terminal blocks Module width: 6 mm		
gray	261-404	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks Module width: 10 mm		
gray	261-405	100 (25)

Technical Data
for 262 Series
Test voltage: 500 V / 800 V ❶
Test current: 0.5 A / 6 A ❷
Middle pressure: 2.2 N per pole



Test plug module; without locking latches; snaps together; for 2-conductor terminal blocks Module width: 7 mm		
Color	Item No.	Pack. Unit
gray	249-137	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks Module width: 12 mm		
gray	249-140	100 (25)

Accessories; for L-type test plug modules

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V		
red	210-136	50



❶ Maximum test voltage (touch contact): 48 V (test pins are not touch-proof)

❷ Maximum test current (touch contact): 0.5 A
Maximum test current: 6 A (if the test pins are securely connected in the clamping units)



Snapping individual modules together to assemble a multi-pole test plug module.



Testing via test plug modules snapped onto a terminal strip – wired or unwired. As touch contact is made with the CAGE CLAMP® (spring steel) unit, this testing type is limited to maximum 0.5 A.

Distance between locking devices must be approximately 35 … 40 mm.



Testing after the conductors have been terminated.



WAGO Chassis-Mount Terminal Strips
WAGO Field-Wiring Terminal Blocks

PUSH-IN CAGE CLAMP® PUSH WIRE®

WAGO Chassis-Mount Terminal Strips
WAGO Field-Wiring Terminal Blocks

			Page
	**4-Conductor Chassis-Mount Terminal Strips** 0.5 … 4 mm² (20 … 12 AWG)	862 Series	558
	**Field-Wiring Terminal Blocks** 0.5 … 2.5 mm² (18 … 12 AWG)	294 Series	567

10

PUSH-IN CAGE CLAMP®

4-Conductor Chassis-Mount Terminal Strips
862 Series
Description and Installation



Terminating four conductors per pole – solid and fine-stranded.



Inserting a conductor via push-button.



Testing with a 2 mm Ø test plug (max. 42 V).



Makes an automatic contact to the mounting plate. The plate's varnish is instantly penetrated.



Commoning using a comb-style jumper bar (862-482).



10

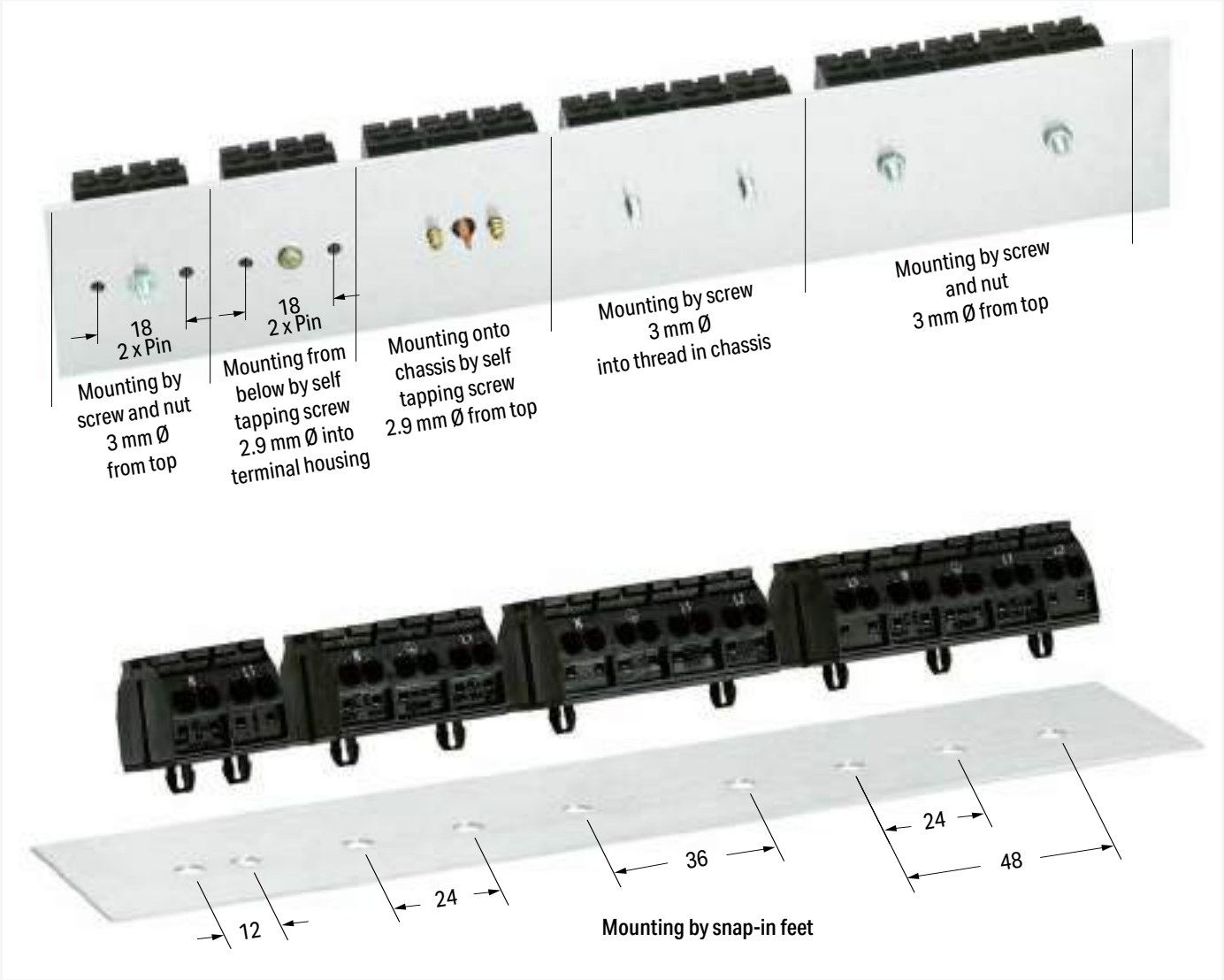
Cost-Effective Features:
WAGO's 862 Series Chassis-Mount Terminal Strips were developed specifically to minimize wiring costs, while accommodating requirements for flexible mounting, multiple connection points and easy usage:

- Equipped with Push-in CAGE CLAMP®, the 862 Series connects up to four conductors sized 0.5 to 4 mm² (20 … 12 AWG). Due to multiple connection points per pole, different conductor sizes can be used within the same terminal block position.
- For factory wiring, Push-in CAGE CLAMP® connection technology allows solid conductors, ultrasonically bonded conductors from 0.5 … 4 mm² (20 … 12 AWG; length of bonded conductor end: min. 10 mm) or fine-stranded conductors with ferrules from 1 to 2.5 mm² (18 … 14 AWG) to be terminated by simply pushing them into the unit.
- Convenient automatic grounding contact (optional)
- Snap-in mounting feet for fast assembly
- Push-buttons for easy installation with an operating tool or by hand
- Built-in test points simplify testing with 2 mm Ø test plug
- Flexible marking options with standard marking (pre-marked), marking strip or custom marked for large orders

Push-in CAGE CLAMP® terminates the following copper conductors:					
solid "s"	stranded "st"	fine-stranded "f-st", also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

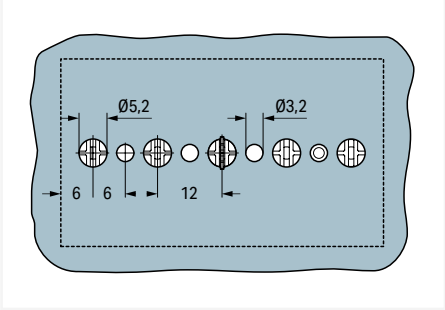
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

Mounting Types

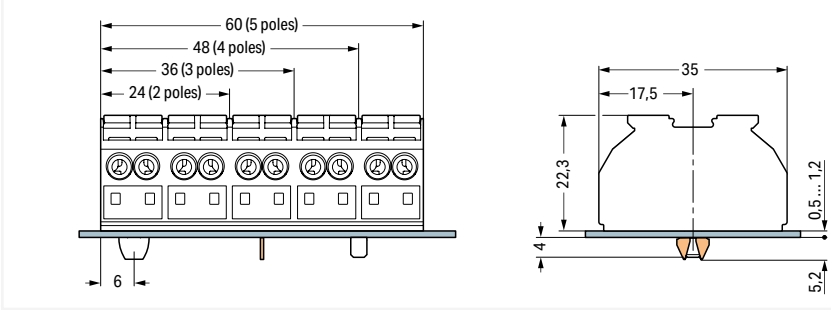


Dimensions in mm

10



Dimensions (in mm) for ground contact and snap-in mounting foot (5.2 mm Ø)



Dimensions (in mm) for chassis-mount terminal strips

PUSH-IN CAGE CLAMP®

4-Conductor Chassis-Mount Terminal Strip; 2-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



❶ Conductor range: 0.5 … 4 mm² "s+f-st";
Push-in termination: 0.75 … 4 mm² "s" and 0.5 … 1.5 mm² "insulated ferrules, 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; with 2 x pin; black

	Item No.	Pack. Unit
● N-L1	862-2552	500
● L1-N	862-1552	500
● L1-N Ex	862-1552/999-950 ❸	500
● plain	862-552	500

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; with 2 x pin; white

	Item No.	Pack. Unit
○ N-L1	862-2652	500
○ L1-N	862-1652	500
○ L1-N Ex	862-1652/999-950 ❸	500
○ plain	862-652	500

4-conductor chassis-mount terminal strip; for self-tapping screw (2.9 mm Ø) from below; with 2 x pin; black

	Item No.	Pack. Unit
● N-L1	862-2562	500
● L1-N	862-1562	500
● L1-N Ex	862-1562/999-950 ❸	500
● plain	862-562	500

4-conductor chassis-mount terminal strip; for self-tapping screw (2.9 mm Ø) from below; with 2 x pin; white

	Item No.	Pack. Unit
○ N-L1	862-2662	500
○ L1-N	862-1662	500
○ L1-N Ex	862-1662/999-950 ❸	500
○ plain	862-662	500

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

	Item No.	Pack. Unit
● N-L1	862-2532	500
● L1-N	862-1532	500
● L1-N Ex	862-1532/999-950 ❸	500
● plain	862-532	500

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

	Item No.	Pack. Unit
○ N-L1	862-2632	500
○ L1-N	862-1632	500
○ L1-N Ex	862-1632/999-950 ❸	500
○ plain	862-632	500

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A



black 862-482 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type



white 709-178 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 1

10

PUSH-IN CAGE CLAMP®

4-Conductor Chassis-Mount Terminal Strip; 3-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



❶ Conductor range: 0.5 … 4 mm² "s+f-st"; Push-in termination: 0.75 … 4 mm² "s" and 0.5 … 1.5 mm² "insulated ferrules, 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; black

	Item No.	Pack. Unit
● N-PE-L1; without ground contact	862-2503	250
● PE-N-L1; without ground contact	862-1503	250
● PE-N-L1; without ground contact	862-1503/999-950 ❸	250
● plain; without ground contact	862-503	250
● N-PE-L1; with ground contact	862-8503	250
● PE-L1-N; with ground contact	862-9503	250

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; white

	Item No.	Pack. Unit
○ N-PE-L1; without ground contact	862-2603	250
○ PE-N-L1; without ground contact	862-1603	250
○ PE-N-L1; without ground contact	862-1603/999-950 ❸	250
○ plain; without ground contact	862-603	250
○ N-PE-L1; with ground contact	862-8603	250
○ PE-L1-N; with ground contact	862-9603	250

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

● N-PE-L1; without ground contact	862-2533	250
● PE-N-L1; without ground contact	862-1533	250
● PE-N-L1; without ground contact	862-1533/999-950 ❸	250
● plain; without ground contact	862-533	250
● N-PE-L1; with ground contact	862-8533	250
● PE-L1-N; with ground contact	862-9533	250

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

○ N-PE-L1; without ground contact	862-2633	250
○ PE-N-L1; without ground contact	862-1633	250
○ PE-N-L1; without ground contact	862-1633/999-950 ❸	250
○ plain; without ground contact	862-633	250
○ N-PE-L1; with ground contact	862-8633	250
○ PE-L1-N; with ground contact	862-9633	250

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3; black

● N-PE-L1; without ground contact	862-2593	250
● PE-N-L1; without ground contact	862-1593	250
● PE-N-L1; without ground contact	862-1593/999-950 ❸	250
● plain; without ground contact	862-593	250
● N-PE-L1; with ground contact	862-8593	250
● PE-N-L1; with ground contact	862-9593	250

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3; white

○ N-PE-L1; without ground contact	862-2693	250
○ PE-N-L1; without ground contact	862-1693	250
○ PE-N-L1; without ground contact	862-1693/999-950 ❸	250
○ plain; without ground contact	862-693	250
○ N-PE-L1; with ground contact	862-8693	250
○ PE-N-L1; with ground contact	862-9693	250

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A



black — 862-482 — 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red — 210-136 — 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type



white — 709-178 — 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 — 1

10

PUSH-IN CAGE CLAMP®

4-Conductor Chassis-Mount Terminal Strip; 4-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



❶ Conductor range: 0.5 … 4 mm² "s+f-st";
Push-in termination: 0.75 … 4 mm² "s" and 0.5 … 1.5 mm² "insulated ferrules, 10 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; black

	Item No.	Pack. Unit
● N-PE-L1-L2; without ground contact	862-2504	200
● PE-N-L1-L2; without ground contact	862-1504	200
● PE-N-L1-L2; without ground contact	862-1504/999-950 ❸	200
● plain; without ground contact	862-504	200
● N-PE-L1-L2; with ground contact	862-8504	200
● PE-N-L1-L2; with ground contact	862-9504	200

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; white

	Item No.	Pack. Unit
○ N-PE-L1-L2; without ground contact	862-2604	200
○ PE-N-L1-L2; without ground contact	862-1604	200
○ PE-N-L1-L2; without ground contact	862-1604/999-950 ❸	200
○ plain; without ground contact	862-604	200
○ N-PE-L1-L2; with ground contact	862-8604	200
○ PE-N-L1-L2; with ground contact	862-9604	200

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

	Item No.	Pack. Unit
● N-PE-L1-L2; without ground contact	862-2534	200
● PE-N-L1-L2; without ground contact	862-1534	200
● PE-N-L1-L2; without ground contact	862-1534/999-950 ❸	200
● plain; without ground contact	862-534	200
● N-PE-L1-L2; with ground contact	862-8534	200
● PE-N-L1-L2; with ground contact	862-9534	200

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

	Item No.	Pack. Unit
○ N-PE-L1-L2; without ground contact	862-2634	200
○ PE-N-L1-L2; without ground contact	862-1634	200
○ PE-N-L1-L2; without ground contact	862-1634/999-950 ❸	200
○ plain; without ground contact	862-634	200
○ N-PE-L1-L2; with ground contact	862-8634	200
○ PE-N-L1-L2; with ground contact	862-9634	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+4; black

	Item No.	Pack. Unit
● N-PE-L1-L2; without ground contact	862-2594	200
● PE-N-L1-L2; without ground contact	862-1594	200
● PE-N-L1-L2; without ground contact	862-1594/999-950 ❸	200
● plain; without ground contact	862-594	200
● N-PE-L1-L2; with ground contact	862-8594	200
● PE-N-L1-L2; with ground contact	862-9594	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+4; white

	Item No.	Pack. Unit
○ N-PE-L1-L2; without ground contact	862-2694	200
○ PE-N-L1-L2; without ground contact	862-1694	200
○ PE-N-L1-L2; without ground contact	862-1694/999-950 ❸	200
○ plain; without ground contact	862-694	200
○ N-PE-L1-L2; with ground contact	862-8694	200
○ PE-N-L1-L2; with ground contact	862-9694	200

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A



black 862-482 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red 210-136 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type



white 709-178 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade



210-720 1

10

4-Conductor Chassis-Mount Terminal Strip; 5-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V / 6 kV / 3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	



❶ Conductor range: 0.5 … 4 mm² "s+f-st"; Push-in termination: 0.75 … 4 mm² "s" and 0.5 … 1.5 mm² "insulated ferrules, 10 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; black

	Item No.	Pack. Unit
● L3-N-PE-L1-L2; without ground contact	862-2505	200
● PE-N-L1-L2-L3; without ground contact	862-1505	200
● PE-N-L1-L2-L3; without ground contact	862-1505/999-950 ❸	200
● plain; without ground contact	862-505	200
● L3-N-PE-L1-L2; with ground contact	862-8505	200
● PE-N-L1-L2-L3; with ground contact	862-9505	200

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; white

	Item No.	Pack. Unit
○ L3-N-PE-L1-L2; without ground contact	862-2605	200
○ PE-N-L1-L2-L3; without ground contact	862-1605	200
○ PE-N-L1-L2-L3; without ground contact	862-1605/999-950 ❸	200
○ plain; without ground contact	862-605	200
○ L3-N-PE-L1-L2; with ground contact	862-8605	200
○ PE-N-L1-L2-L3; with ground contact	862-9605	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 2+4; black

● L3-N-PE-L1-L2; without ground contact	862-2525	200
● PE-N-L1-L2-L3; without ground contact	862-1525	200
● PE-N-L1-L2-L3; without ground contact	862-1525/999-950 ❸	200
● plain; without ground contact	862-525	200
● L3-N-PE-L1-L2; with ground contact	862-8525	200
● PE-N-L1-L2-L3; with ground contact	862-9525	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 2+4; white

○ L3-N-PE-L1-L2; without ground contact	862-2625	200
○ PE-N-L1-L2-L3; without ground contact	862-1625	200
○ PE-N-L1-L2-L3; without ground contact	862-1625/999-950 ❸	200
○ plain; without ground contact	862-625	200
○ L3-N-PE-L1-L2; with ground contact	862-8625	200
○ PE-N-L1-L2-L3; with ground contact	862-9625	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3+5; black

● L3-N-PE-L1-L2; without ground contact	862-2515	200
● PE-N-L1-L2-L3; without ground contact	862-1515	200
● PE-N-L1-L2-L3; without ground contact	862-1515/999-950 ❸	200
● plain; without ground contact	862-515	200
● L3-N-PE-L1-L2; with ground contact	862-8515	200
● PE-N-L1-L2-L3; with ground contact	862-9515	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3+5; white

○ L3-N-PE-L1-L2; without ground contact	862-2615	200
○ PE-N-L1-L2-L3; without ground contact	862-1615	200
○ PE-N-L1-L2-L3; without ground contact	862-1615/999-950 ❸	200
○ plain; without ground contact	862-615	200
○ L3-N-PE-L1-L2; with ground contact	862-8615	200
○ PE-N-L1-L2-L3; with ground contact	862-9615	200

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A



black — 862-482 — 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V



red — 210-136 — 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type



white — 709-178 — 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

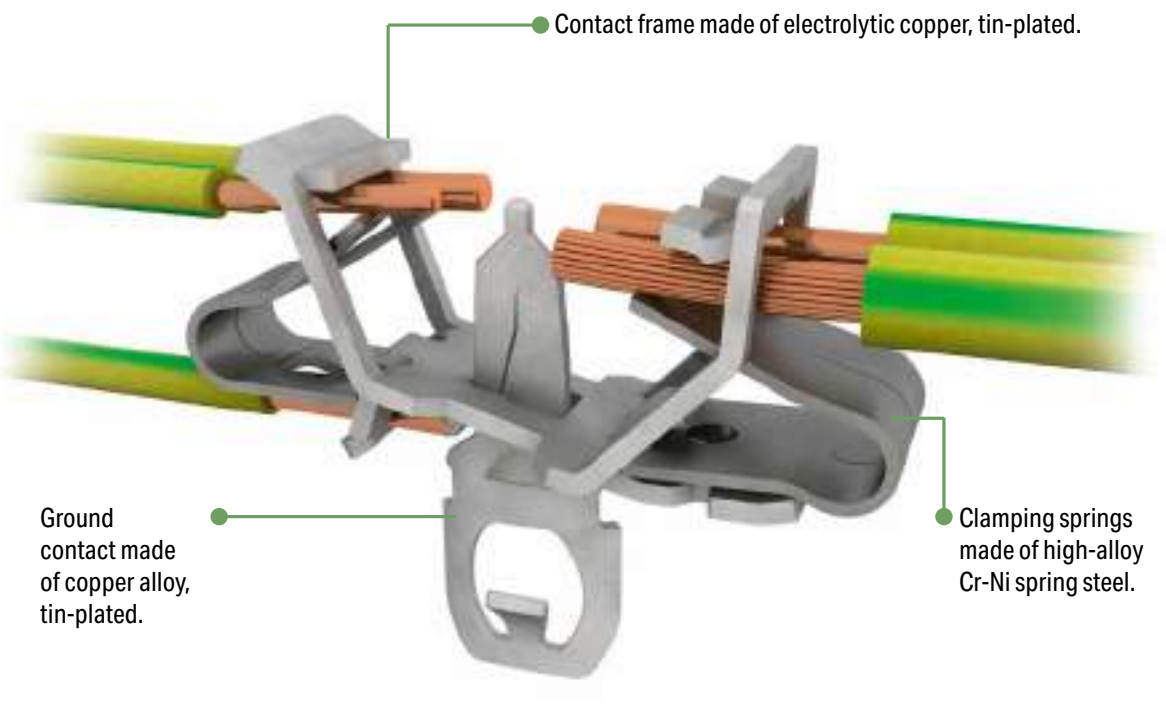


210-720 — 1

10

Connect Lighting and Equipment Worldwide
Contact Technology
294 Series

Contact Technology

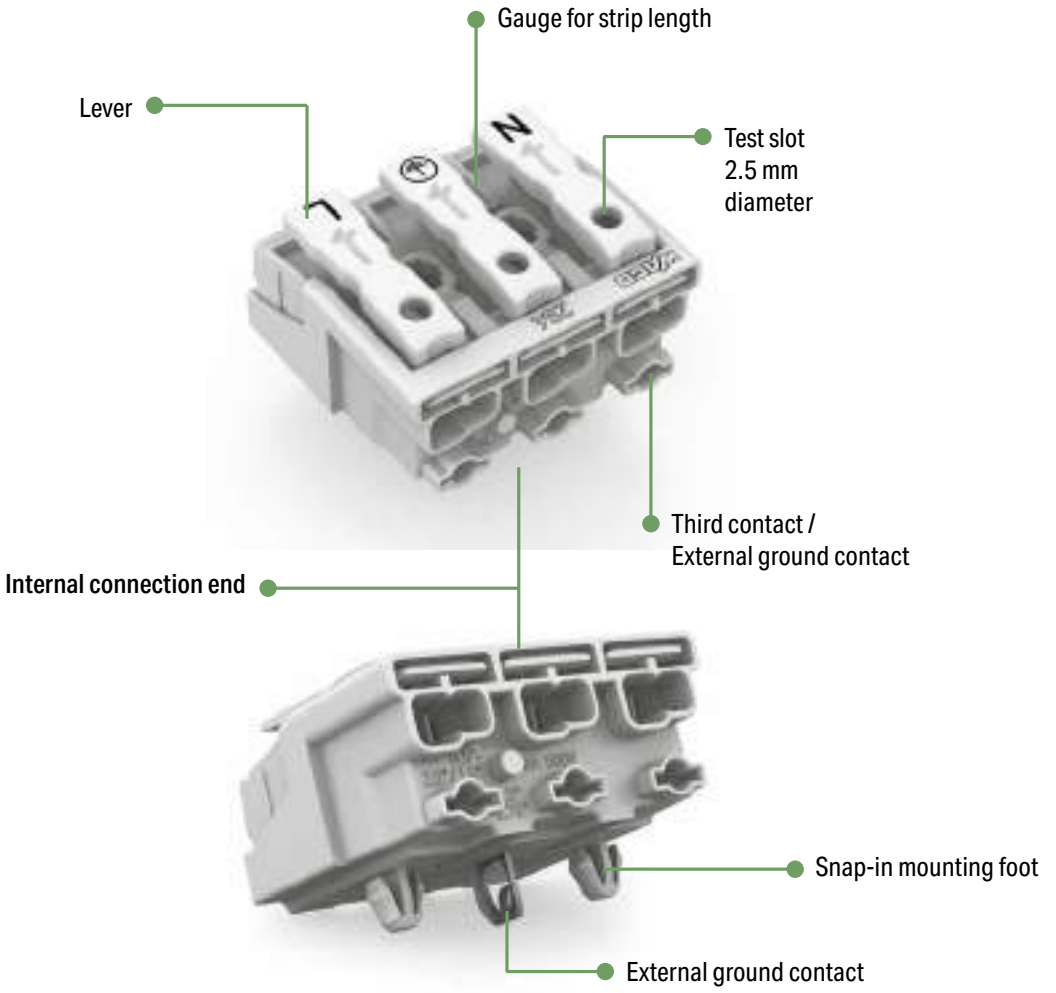


EUROPE
1 x 0.5 … 2.5 mm² “s”
1 x 0.5 … 1.5 mm² “s”
1 x 0.5 … 0.75 mm² “s”
AMERICA
1 x AWG 18 … 14 “s”
1 x AWG 18 … 16 “s”
1 x AWG 18 “s”
JAPAN
1 x 0.8 … 1.6 mm diam. “s”
1 x 0.8 … 1 mm diam. “s”
1 x 0.8 mm diam. “s”

Internal connection:
PUSH WIRE® for internal wiring with solid conductors

EUROPE
2 x 0.5 … 2.5 mm² “s, str, f-str”
AMERICA
2 x AWG 18 … 12 “s”
2 x AWG 18 … 14 “s, f-str”
JAPAN
2 x 0.8 … 2 mm diam. “s”
2 x 0.5 … 2 mm² “str, f-str”

External connection:
Push-in CAGE CLAMP® for field-wiring with all conductor types


Gauge for strip length
Lever
Test slot
2.5 mm
diameter
Third contact /
External ground contact
Internal connection end
Snap-in mounting foot
External ground contact

PUSH-IN CAGE CLAMP® PUSH WIRE®

Field-Wiring Terminal Block; with Two Snap-In Mounting Feet – Overview
294 Series



Without Ground Contact	With Direct Ground Contact	With Screw-Type Ground Contact	With Snap-In Ground Contact	With Angled Snap-In Ground Contact
				

Pole No.	Marking	Item No.	Item No.	Item No.	Item No.	Item No.
2 	plain	294-5002				
	N-L	294-5012				
	N´-L´	294-5022				
	DA- DA+	294-5032				
	- +	294-5072				
	1-N	294-5052				
	2-1	294-5042				
3 	plain	294-5003				
	N-PE-L	294-5013	294-5113	294-5413	294-5213	294-5313
	N´-PE-L´	294-5023	294-5123	294-5423	294-5223	294-5323
	1-PE-N	294-5053	294-5153	294-5453	294-5253	294-5353
	3-2-1	294-5043				
	N-E-L	294-5093/3025-000				
4 	plain	294-5004				
	1/L´-2/L-PE-N	294-5024	294-5124	294-5424	294-5224	294-5324
	1-2-PE-N	294-5014	294-5114	294-5414	294-5214	294-5314
	4-3-2-1	294-5044				
	1/L´-2/L E-N	294-5094/4025-000				
5 	plain	294-5005				
	L3-L2-L1-PE_N	294-5015		294-5415	294-5215	294-5315
	L´-N`-L-PE-N	294-5025		294-5425	294-5225	294-5325
	DA+ DA- L PE N	294-5035		294-5435	294-5235	294-5335
	DA- N PE L DA+	294-5075	294-5175	294-5475	294-5275	294-5375
	3-N-PE-1-2	294-5055	294-5155	294-5455	294-5255	294-5355
	5-4-3-2-1	294-5045				
	DA+ DA- L E N	294-5095/5025-000				
	L3-L2-L1-E-N	294-5095/5026-000				
	L´-N`-L-E-N	294-5095/5027-000				

PUSH-IN CAGE CLAMP® PUSH WIRE®

Field-Wiring Terminal Block; without Snap-In Mounting Feet – Overview
294 Series



Without Ground Contact	With Direct Ground Contact	With Screw-Type Ground Contact	With Snap-In Ground Contact	With Angled Snap-In Ground Contact
				

Pole No.	Marking	Item No.	Item No.	Item No.	Item No.	Item No.
2 	plain	294-4002				
	N-L	294-4012				
	N´-L´	294-4022				
	DA- DA+	294-4032				
	- +	294-4072				
	1-N	294-4052				
	2-1	294-4042				
3 	plain	294-4003				
	N-PE-L	294-4013		294-4413	294-4213	294-4313
	N´-PE-L´	294-4023		294-4423	294-4223	294-4323
	1-PE-N	294-4053		294-4453	294-4253	294-4353
	3-2-1	294-4043				
	N-E-L	294-4093/3025-000				
4 	plain	294-4004				
	1/L´-2/L-PE-N	294-4024		294-4424	294-4224	294-4324
	1-2-PE-N	294-4014		294-4414	294-4214	294-4314
	4-3-2-1	294-4044				
	1/L´-2/L E-N	294-4094/4025-000				
5 	plain	294-4005				
	L3-L2-L1-PE_N	294-4015		294-4415	294-4215	294-4315
	L´-N`-L-PE-N	294-4025		294-4425	294-4225	294-4325
	DA+ DA- L PE N	294-4035		294-4435	294-4235	294-4335
	DA- N PE L DA+	294-4075		294-4475	294-4275	294-4375
	3-N-PE-1-2	294-4055		294-4455	294-4255	294-4355
	5-4-3-2-1	294-4045				
	DA+ DA- L E N	294-4095/5025-000				
	L3-L2-L1-E-N	294-4095/5026-000				
	L´-N`-L-E-N	294-4095/5027-000				
6 	plain	294-4006				
7 	plain	294-4007				

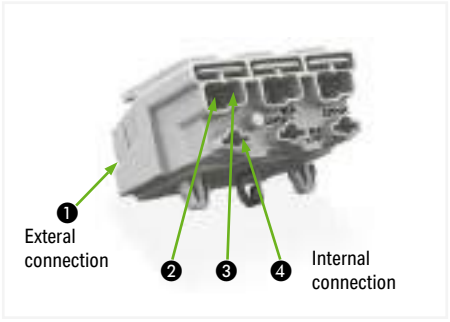
10

Field-Wiring Terminal Block
2.5 mm; 294 Series



Terminating five conductors per pole – solid and fine-stranded.

- External connection of solid, stranded and fine-stranded conductors
- Universal conductor termination (AWG, metric)
- Third contact located at the bottom of internal connection end
- Strain relief plate can be retrofitted



Technical Data		
Ratings per	IEC/EN 60998-1	IEC/EN 60998-2-2
Overvoltage category	II	II
Pollution degree	2	2
Rated voltage	500 V	500 V
Rated surge voltage	4 kV	4 kV
Rated current	24 A	24 A
Temperature specification	T 85	

Conductor Data (External Connection)	
Connection technology ❶	Push-in CAGE CLAMP®
Solid conductor	0.5 … 2.5 mm / 18 … 12 AWG
Stranded conductor	0.5 … 2.5 mm / 18 … 16 AWG
Fine-stranded conductor	0.5 … 2.5 mm / 18 … 16 AWG
Solid conductor, push-in termination	0.5 … 2.5 mm / 18 … 12 AWG
Fine-stranded conductor with ferrule, push-in termination	0.5 mm² / 18 AWG
Fine-stranded conductor with ferrule with plastic collar	0.5 … 1.5 mm / 18 … 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.5 … 1.5 mm / 18 … 16 AWG

Conductor Data (Internal Connection)	
Connection technology	PUSH WIRE®
Conductor termination ❷	
Solid conductor	0.5 … 2.5 mm / 18 … 14 AWG
Fine-stranded conductor with ferrule without plastic collar	0.5 … 1.5 mm / 18 … 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0.5 … 1.5 mm / 18 … 14 AWG
Conductor termination ❸	
Solid conductor	0.5 … 1.5 mm / 18 … 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.5 … 1 mm / 18 … 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0.5 … 0.75 mm / 18 AWG
Conductor termination ❹	
Solid conductor	0.5 … 0.75 mm / 18 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inch

Material Data	
Material group	IIIa
Insulation material	Polycarbonate (PC)
Temperature stability	Relative Temperature Index (RTI) of 120 °C
Flammability class per UL 94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E_{Cu})
Contact plating	Tin-plated
16 mm-high versions are available upon request.	

PUSH-IN CAGE CLAMP® PUSH WIRE®

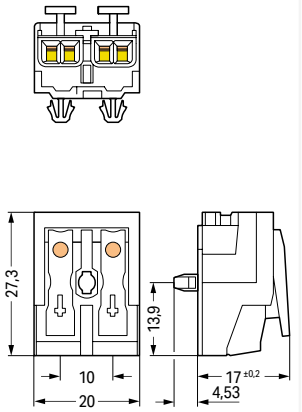
Field-Wiring Terminal Block
2.5 mm; 294 Series







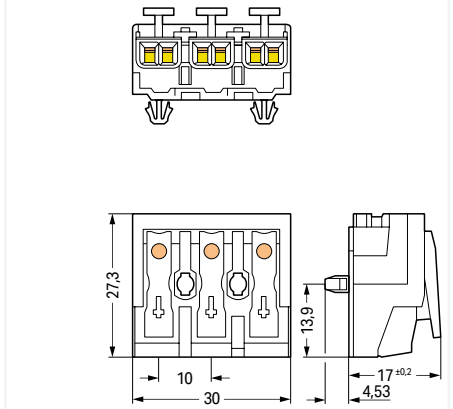
Dimensions in mm



Field-wiring terminal block; without ground contact; with snap-in mounting feet; 2-pole; white		
Marking	Item No.	Pack. Unit
◯ N-L	294-5012	1000
◯ N´-L´	294-5022	1000
◯ DA- DA+	294-5032	1000
◯ - +	294-5072	1000
◯ 2-1	294-5042	1000
◯ 1-N	294-5052	1000
◯ plain	294-5002	1000

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 2-pole; white		
◯ N-L	294-4012	1000
◯ N´-L´	294-4022	1000
◯ DA- DA+	294-4032	1000
◯ - +	294-4072	1000
◯ 2-1	294-4042	1000
◯ 1-N	294-4052	1000
◯ plain	294-4002	1000

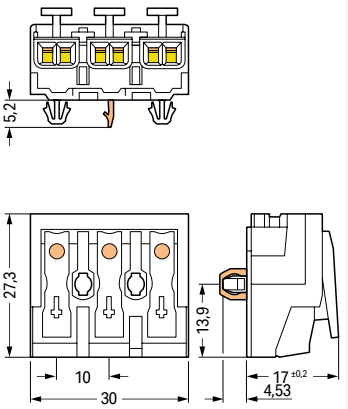
Dimensions in mm



Field-wiring terminal block; without ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
◯ N-PE-L	294-5013	500
◯ N´-PE-L´	294-5023	500
◯ 1-PE-N	294-5053	500
◯ 3-2-1	294-5043	500
◯ plain	294-5003	500
◯ N-E-L	294-5093/3025-000	500

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 3-pole; white		
◯ N-PE-L	294-4013	500
◯ N´-PE-L´	294-4023	500
◯ 1-PE-N	294-4053	500
◯ 3-2-1	294-4043	500
◯ plain	294-4003	500
◯ N-E-L	294-4093/3025-000	500

Dimensions in mm



Field-wiring terminal block; with direct ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
◯ N-PE-L	294-5113	500
◯ N´-PE-L´	294-5123	500
◯ 1-PE-N	294-5153	500

10

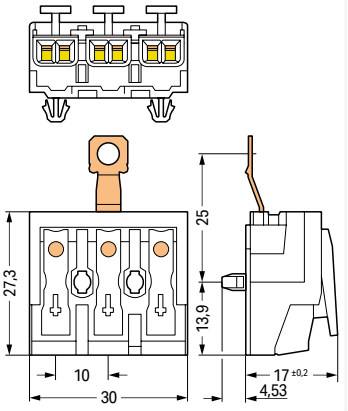
Field-Wiring Terminal Block
2.5 mm; 294 Series





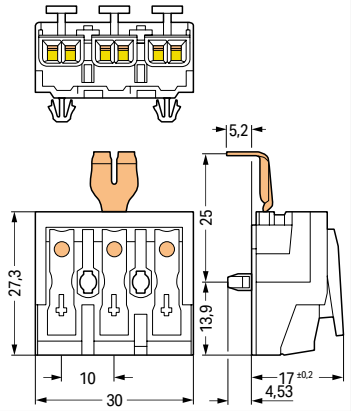


Dimensions in mm



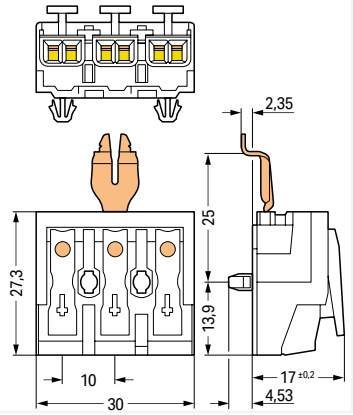
Field-wiring terminal block; with screw-type ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
○ N-PE-L	294-5413	500
○ N´-PE-L´	294-5423	500
○ 1-PE-N	294-5453	500

Dimensions in mm



Field-wiring terminal block; with ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
○ N-PE-L	294-5213	500
○ N´-PE-L´	294-5223	500
○ 1-PE-N	294-5253	500

Dimensions in mm



Field-wiring terminal block; with angled ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
○ N-PE-L	294-5313	500
○ N´-PE-L´	294-5323	500
○ 1-PE-N	294-5353	500

Field-wiring terminal block; with screw-type ground contact; without snap-in mounting feet; 3-pole; white		
○ N-PE-L	294-4413	500
○ N´-PE-L´	294-4423	500
○ 1-PE-N	294-4453	500

Field-wiring terminal block; with snap-in ground contact; without snap-in mounting feet; 3-pole; white		
○ N-PE-L	294-4213	500
○ N´-PE-L´	294-4223	500
○ 1-PE-N	294-4253	500

Field-wiring terminal block; with angled snap-in ground contact; without snap-in mounting feet; 3-pole; white		
○ N-PE-L	294-4313	500
○ N´-PE-L´	294-4323	500
○ 1-PE-N	294-4353	500

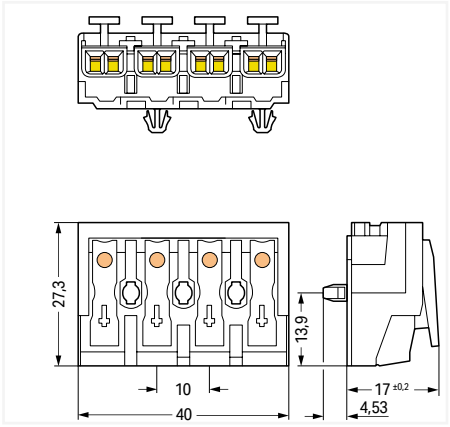
PUSH-IN CAGE CLAMP® PUSH WIRE®







Dimensions in mm



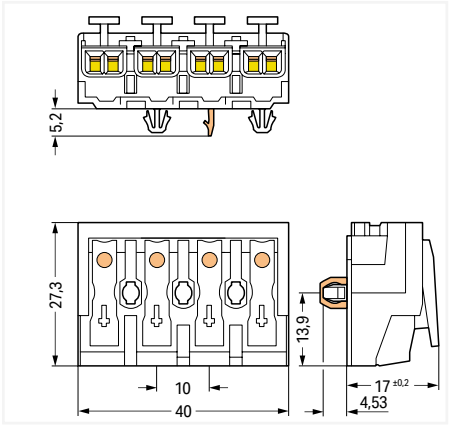
Field-wiring terminal block; without ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-PE-N	**294-5024**	500
○ 1-2-PE-N	**294-5014**	500
○ 4-3-2-1	**294-5044**	500
○ plain	**294-5004**	500
○ 1/L´-2/L-E-N	**294-5094/4025-000**	500

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 4-pole; white

○ 1/L´-2/L-PE-N	**294-4024**	500
○ 1-2-PE-N	**294-4014**	500
○ 4-3-2-1	**294-4044**	500
○ plain	**294-4004**	500
○ 1/L´-2/L-E-N	**294-4094/4025-000**	500

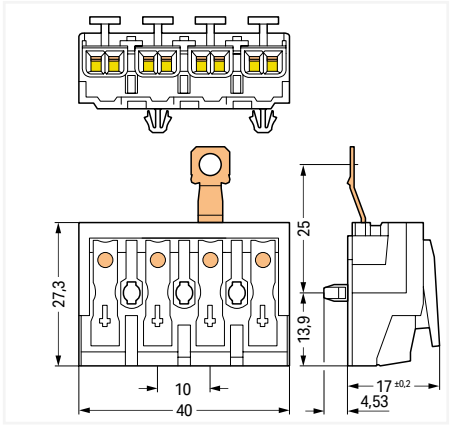
Dimensions in mm



Field-wiring terminal block; with direct ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-PE-N	**294-5124**	500
○ 1-2-PE-N	**294-5114**	500

Dimensions in mm



Field-wiring terminal block; with screw-type ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-PE-N	**294-5424**	500
○ 1-2-PE-N	**294-5414**	500

Field-wiring terminal block; with screw-type ground contact; without snap-in mounting feet; 4-pole; white

○ 1/L´-2/L-PE-N	**294-4424**	500
○ 1-2-PE-N	**294-4414**	500

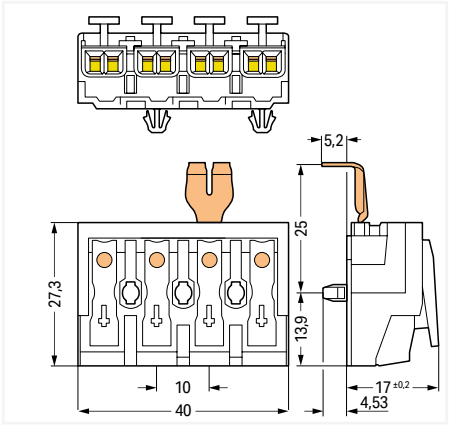
Field-Wiring Terminal Block
2.5 mm; 294 Series







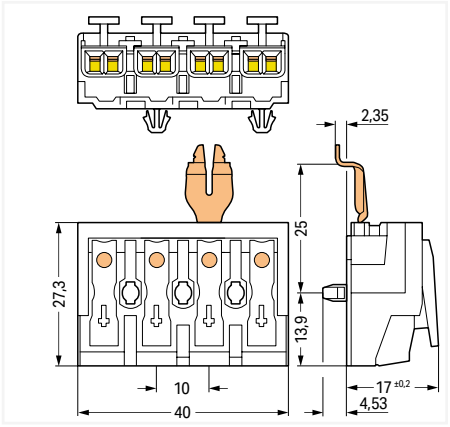
Dimensions in mm



Field-wiring terminal block; with ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-PE-N	**294-5224**	500
○ 1-2-PE-N	**294-5214**	500

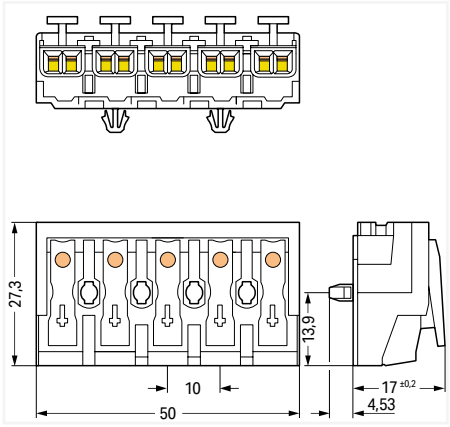
Dimensions in mm



Field-wiring terminal block; with angled ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-PE-N	**294-5324**	500
○ 1-2-PE-N	**294-5314**	500

Dimensions in mm



Field-wiring terminal block; without ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-PE-N	**294-5025**	250
○ L3-L2-L1-PE-N	**294-5015**	250
○ DA+ DA- L PE N	**294-5035**	250
○ DA- N PE L DA+	**294-5075**	250
○ 3-N-PE-1-2	**294-5055**	250
○ 5-4-3-2-1	**294-5045**	250
○ plain	**294-5005**	250
○ DA+ DA- L E N	**294-5095/5025-000**	250
○ L3-L2-L1-E-N	**294-5095/5026-000**	250
○ L´-N´-L-E-N	**294-5095/5027-000**	250

Field-wiring terminal block; with snap-in ground contact; without snap-in mounting feet; 4-pole; white

○ 1/L´-2/L-PE-N	**294-4224**	500
○ 1-2-PE-N	**294-4214**	500

Field-wiring terminal block; with angled snap-in ground contact; without snap-in mounting feet; 4-pole; white

○ 1/L´-2/L-PE-N	**294-4324**	500
○ 1-2-PE-N	**294-4314**	500

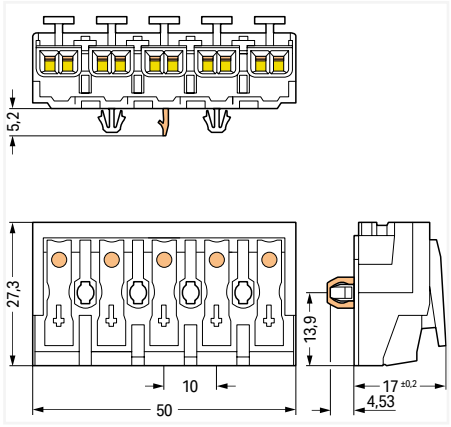
Field-wiring terminal block; without ground contact; without snap-in mounting feet; 5-pole; white

○ L´-N´-L-PE-N	**294-4025**	250
○ L3-L2-L1-PE-N	**294-4015**	250
○ DA+ DA- L PE N	**294-4035**	250
○ DA- N PE L DA+	**294-4075**	250
○ 3-N-PE-1-2	**294-4055**	250
○ 5-4-3-2-1	**294-4045**	250
○ plain	**294-4005**	250
○ DA+ DA- L E N	**294-4095/5025-000**	250
○ L3-L2-L1-E-N	**294-4095/5026-000**	250
○ L´-N´-L-E-N	**294-4095/5027-000**	250

PUSH-IN CAGE CLAMP® PUSH WIRE®



Dimensions in mm

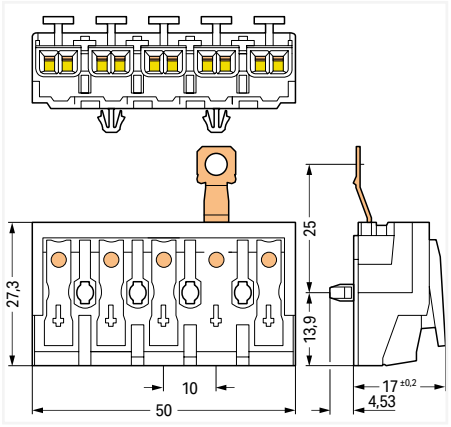


Field-wiring terminal block; with direct ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ DA- N PE L DA+	294-5175	250
○ 3-N-PE-1-2	294-5155	250



Dimensions in mm

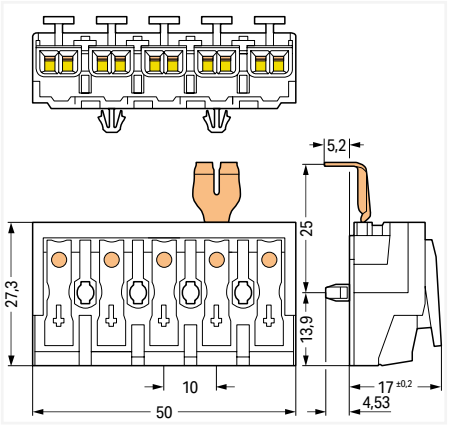


Field-wiring terminal block; with screw-type ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-PE-N	294-5425	250
○ L3-L2-L1-PE-N	294-5415	250
○ DA+ DA- L PE N	294-5435	250
○ DA- N PE L DA+	294-5475	250
○ 3-N-PE-1-2	294-5455	250



Dimensions in mm



Field-wiring terminal block; with ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-PE-N	294-5225	250
○ L3-L2-L1-PE-N	294-5215	250
○ DA+ DA- L PE N	294-5235	250
○ DA- N PE L DA+	294-5275	250
○ 3-N-PE-1-2	294-5255	250

Field-wiring terminal block; with screw-type ground contact; without snap-in mounting feet; 5-pole; white

○ L´-N´-L-PE-N	294-4425	250
○ L3-L2-L1-PE-N	294-4415	250
○ DA+ DA- L PE N	294-4435	250
○ DA- N PE L DA+	294-4475	250
○ 3-N-PE-1-2	294-4455	250

Field-wiring terminal block; with snap-in ground contact; without snap-in mounting feet; 5-pole; white

○ L´-N´-L-PE-N	294-4225	250
○ L3-L2-L1-PE-N	294-4215	250
○ DA+ DA- L PE N	294-4235	250
○ DA- N PE L DA+	294-4275	250
○ 3-N-PE-1-2	294-4255	250

PUSH-IN CAGE CLAMP® PUSH WIRE®

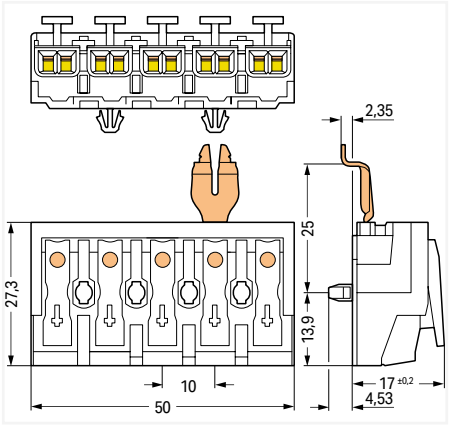
Field-Wiring Terminal Block
2.5 mm; 294 Series







Dimensions in mm



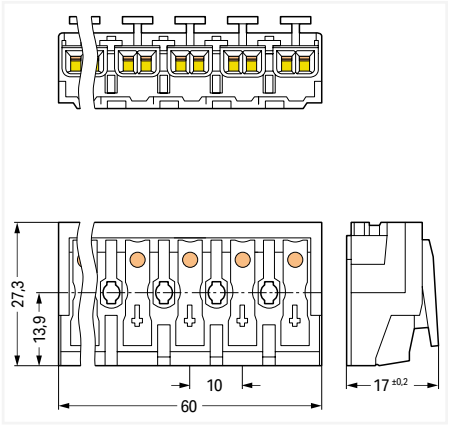
Field-wiring terminal block; without ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-PE-N	294-5325	250
○ L3-L2-L1-PE-N	294-5315	250
○ DA+ DA- L PE N	294-5335	250
○ DA- N PE L DA+	294-5375	250
○ 3-N-PE-1-2	294-5355	250

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-PE-N	294-4325	250
○ L3-L2-L1-PE-N	294-4315	250
○ DA+ DA- L PE N	294-4335	250
○ DA- N PE L DA+	294-4375	250
○ 3-N-PE-1-2	294-4355	250

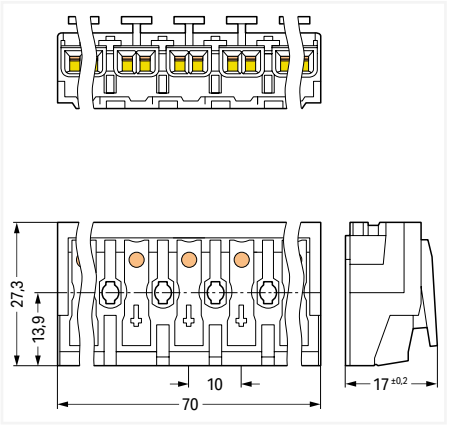
Dimensions in mm



Field-wiring terminal block; without ground contact; without snap-in mounting feet; 6-pole; white

Marking	Item No.	Pack. Unit
○ plain	294-4006	200

Dimensions in mm



Field-wiring terminal block; without ground contact; without snap-in mounting feet; 7-pole; white

Marking	Item No.	Pack. Unit
○ plain	294-4007	200

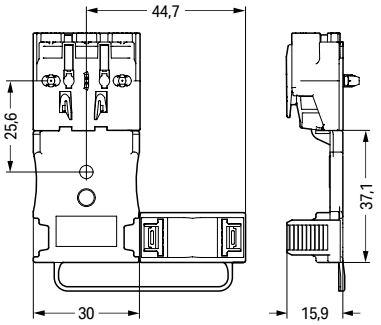
10

Tool and Strain Relief Plate





Dimensions in mm





Dimensions in mm

Disconnection tool; removes conductors from PUSH WIRE® connections		
	Item No.	Pack. Unit
	206-294	1

Strain relief plate; with locking clip; for multicore cable: 1 x 5.2 … 12 mm outer diameter		
Marking	Item No.	Pack. Unit
○ white	294-364	50

Strain relief plate; with locking clip; for flat cables and individual conductors: min. 3 x 0.5 mm², max. 5 x 2.5 mm² or 7 x 1.5 mm²		
○ white	294-384	50

Strain relief; with snap-in mounting feet; for 4.5 … 12 mm cable diameter		
Marking	Item No.	Pack. Unit
○ white	294-370	500



Strain relief; for screw/rivet mounting; for 4.5 … 12 mm cable diameter		
○ white	294-375	500

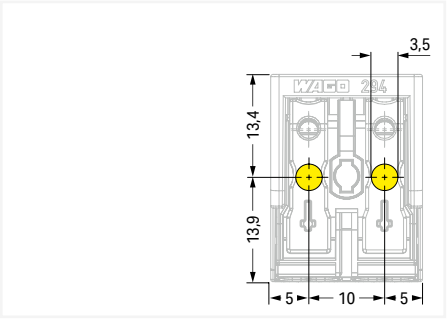


Conductor removal:
Slide disconnection tool beneath the conductor and pull both conductor and tool out.

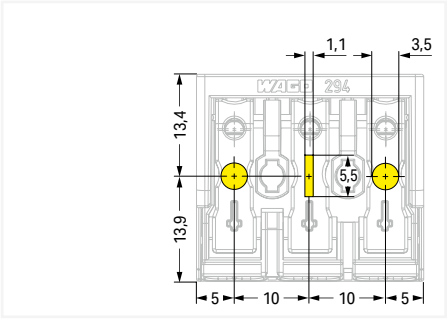


Strain relief; for screw/rivet mounting; for 4.5 … 12 mm cable diameter

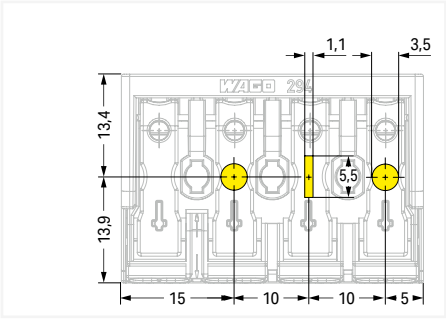
Drilled-Hole Patterns for Snap-In Mounting Feet
294 Series



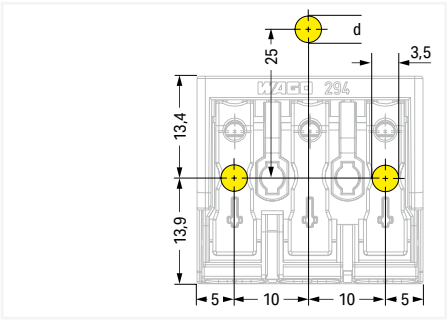
2-pole – without ground contact



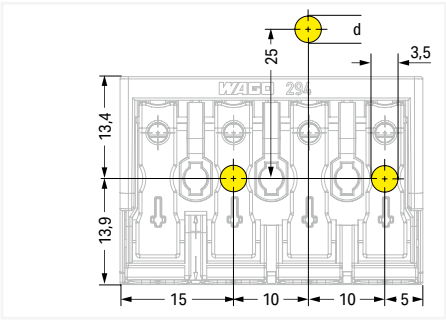
3-pole – with direct ground contact



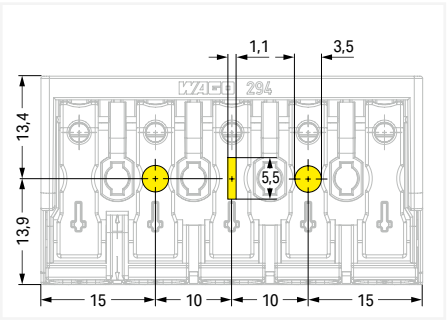
3-pole – with direct ground contact



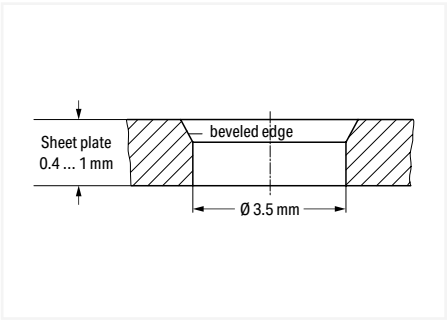
3-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



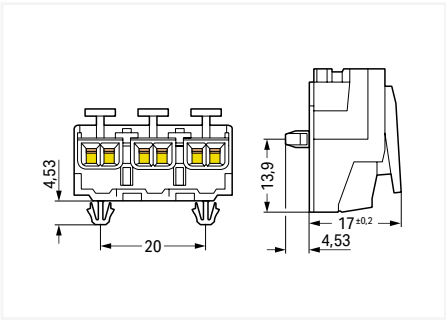
4-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



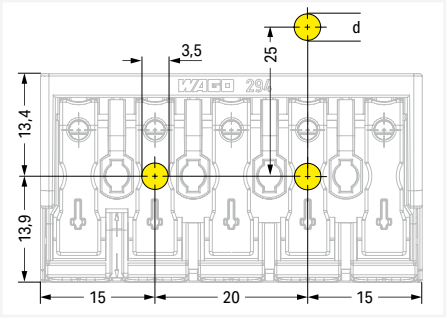
3-pole – with direct ground contact



Drilled hole for snap-in mounting foot



Snap-in mounting foot

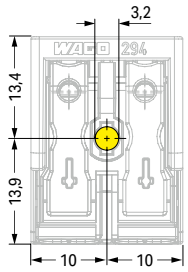


5-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm

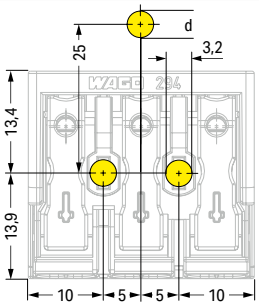
10

Drilled-hole patterns at 1:1 scale

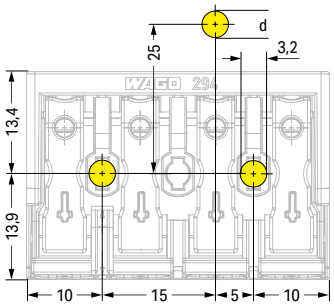
Drilled-Hole Patterns for Screw Mounting
294 Series



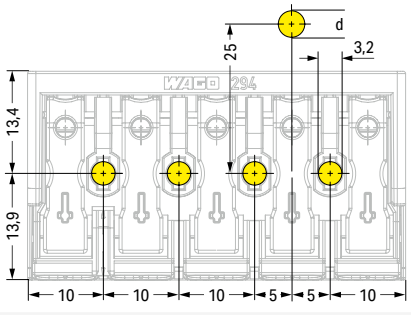
2-pole – without ground contact



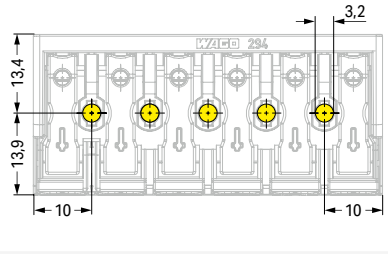
3-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



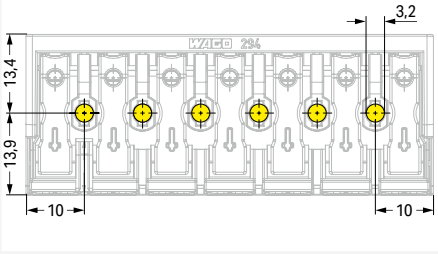
4-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



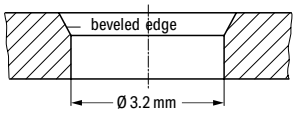
5-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



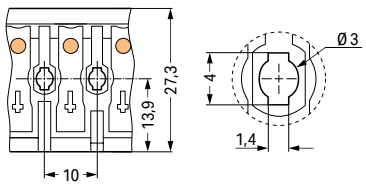
6-pole – without ground contact



7-pole – without ground contact



Hole for screw mount
Notice:
The maximum thread diameter for self-tapping screws is 3 mm.



Mounting hole for screw
Notice:
The maximum thread diameter for self-tapping screws is 3 mm.

10



WAGO Rail-Mount Terminal Blocks Classic

CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks Classic
Side-Entry Wiring

			Page
	**Through and Ground Conductor Terminal Blocks** 0.08 … 16 mm² (28 … 6 AWG)	279 … 283 Series	580
	**Disconnect/Test Terminal Blocks and Ground Conductor Disconnect Terminal Blocks** 0.2 … 6 mm² (24 … 10 AWG)	282 Series	584
	**Fuse Terminal Blocks** 0.2 … 6 mm² (24 … 10 AWG)	282 Series	586

11

Rail-Mount Terminal Blocks Classic; Side-Entry Wiring
279 … 284 Series
Description and Installation



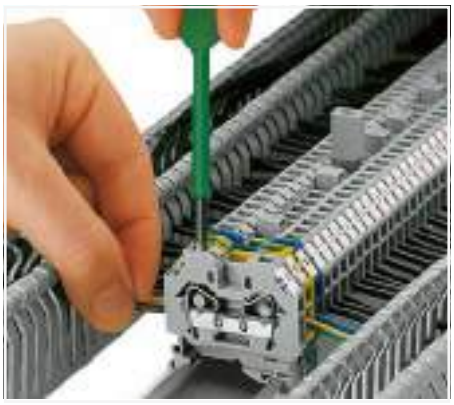
Snapping side-entry rail-mount terminal blocks onto the DIN-rail.



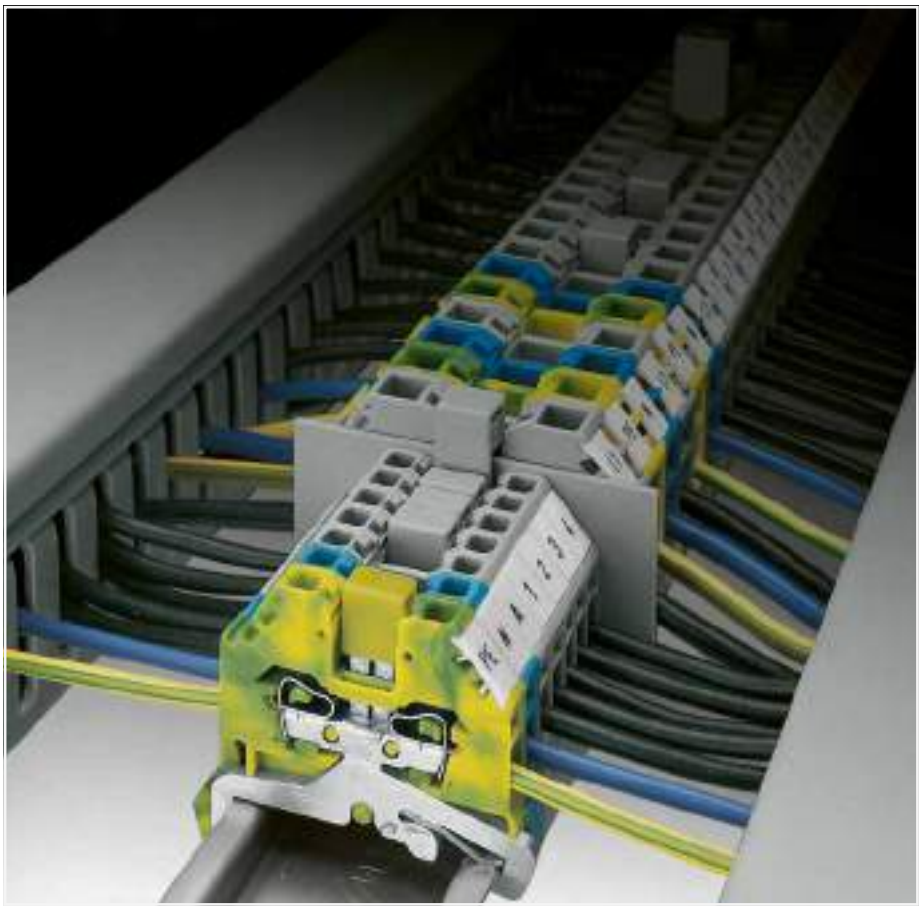
Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.



CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.





Testing with a test plug –
Picture shows a test plug adapter (209-170).



Commoning using an adjacent jumper (280-402).
Push jumpers down until fully inserted.



Commoning side-entry rail-mount terminal blocks via step-down jumpers.
Push down the step-down jumper until fully inserted.



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"

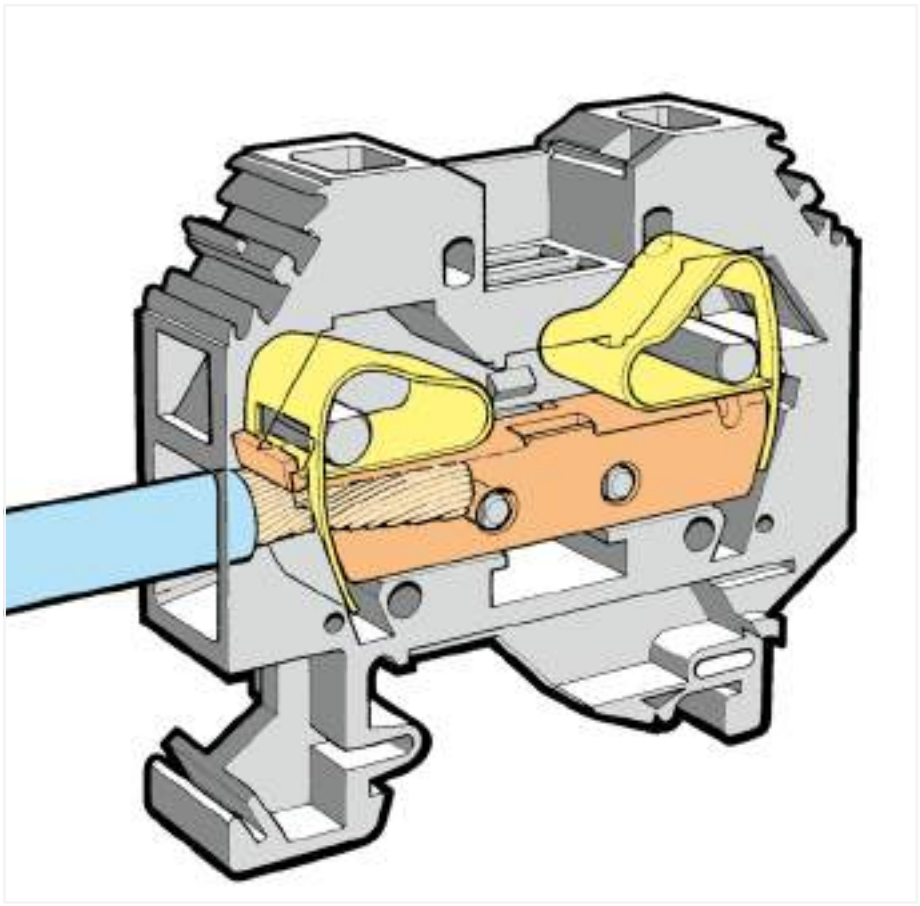


fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15.


Suitable for all DIN-35 rails


Replacing a fuse.




Shifting the disconnect slide link of a disconnect/test terminal block.


When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.


Labeling via WMB Multi Marking System.


fine-stranded, tip-bonded

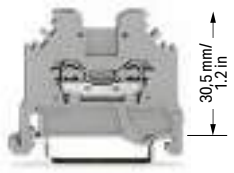

fine-stranded, with ferrule (gastight crimped)


fine-stranded, with pin terminal (gastight crimped)

Through and Ground Conductor Terminal Block

1.5 mm²; 279 Series and 2.5 mm²; 280 Series and 4 mm²; 281 Series and 6 mm²; 282 Series

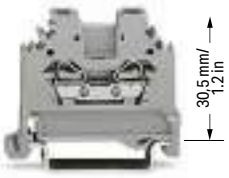
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V / 8 kV / 3 ❶	600 V, 10 A
I_N 18 A	600 V, 15 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	279-101	100
blue	279-104 ❷	100

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	280-302	100 (25)
	gray	280-301	100 (25)
Separator; oversized; 2 mm thick			
	orange	280-322	100 (25)
	gray	280-332	100 (25)
Adjacent jumper; insulated; I_N 15 A			
	gray	279-402	200 (25)
	yellow-green	279-422	200 (25)
Alternate jumper; insulated; I_N 15 A			
	gray	279-409	100 (25)
Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A			
	gray	284-414	50 (25)
Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks			
	gray	281-333	100 (25)
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	279-405	100 (25)
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks			
	gray	209-170	50 (25)
Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks			
	gray	280-404	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

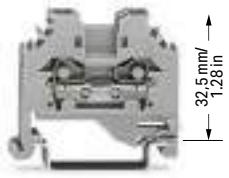


2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	280-101	100
blue	280-104 ❷	100

2-conductor ground terminal block		
green-yellow	280-107	100

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	280-302	100 (25)
	gray	280-301	100 (25)
Separator; oversized; 2 mm thick			
	orange	280-322	100 (25)
	gray	280-332	100 (25)
Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	280-402	200 (25)
	yellow-green	280-422	200 (25)
Alternate jumper; insulated; I_N = I_N terminal block			
	gray	280-409	100 (25)
Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A			
	gray	284-414	50 (25)
Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks			
	gray	281-333	100 (25)
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	280-405	100 (25)
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks			
		209-170	50 (25)
Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks			
	gray	280-404	100 (25)

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V / 8 kV / 3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

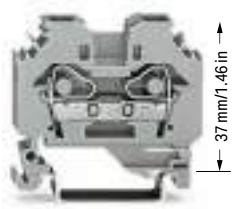


2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	281-101	100
blue	281-104 ❷	100

2-conductor ground terminal block		
green-yellow	281-107	100

Accessories; item-specific			
End and intermediate plate; 3 mm thick			
	orange	281-302	100 (25)
	gray	281-301	100 (25)
Separator; oversized; 2 mm thick			
	orange	281-322	100 (25)
	gray	281-332	100 (25)
Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	281-402	200 (25)
	yellow-green	281-422	200 (25)
Alternate jumper; insulated; I_N = I_N terminal block			
	gray	281-409	100 (25)
Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A			
	gray	284-414	50 (25)
Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks			
	gray	281-333	100 (25)
Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A			
	gray	284-413	50 (25)
Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A			
	gray	283-414	50 (25)
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	281-405	100 (25)

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V / 8 kV / 3 ❶	600 V, 30 A
I_N 41 A	600 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	282-101	50
blue	282-104 ❷	50

2-conductor ground terminal block		
green-yellow	282-107	50

Accessories; item-specific

End and intermediate plate; 4 mm thick



orange	282-302	100 (25)
gray	282-301	100 (25)

Separator; oversized; 2 mm thick



orange	282-322	100 (25)
gray	282-332	100 (25)

Adjacent jumper; insulated; I_N 41 A



gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A



gray	284-413	50 (25)

Step-down cover plate; 1 mm thick



gray	284-333	100 (25)
orange	284-343	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	282-405	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

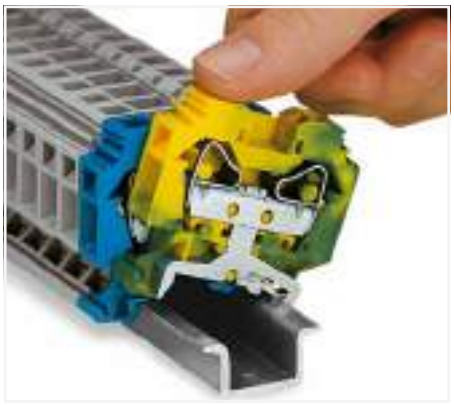
See application notes for:
Step-down jumper, page 541
Test plug module, page 381
Marking, from page 640

Approvals and corresponding ratings, visit www.wago.com

DIN-Rail	Item No.	Current [A]	Acc. to mm²/AWG Cu
DIN 35 x 7.5 (steel)			
slotted	210-112	76	16/6
unslotted	210-113	76	16/6
DIN 35 x 15 (steel)			
1.5 mm thick	210-114	125	35/2
2.3 mm thick	210-118	125	35/2
DIN 35 x 7.5 (Al)			
unslotted	210-196	76	16/6
DIN 35 x 15 (Cu)			
2.3 mm thick	210-198	309	150/6/0

Current applies to rails of 1 m/3'3" length

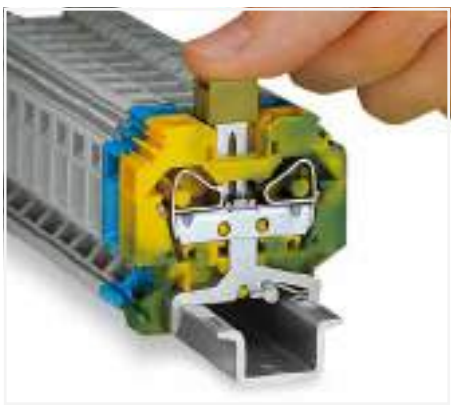
When using standard DIN-rails as ground conductor busbars, please refer to the maximum current capacities listed above.
Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).



Snapping a terminal block onto the DIN-rail.
Ground conductor terminal blocks snap onto the rail in the same way as through terminal blocks, but automatically make a direct electrical connection to the rail.
After mounting, sliding the blocks on the rail is not possible.



Removing a terminal block from the DIN-rail.
When mounting on the rail, ensure that open sides of terminal blocks face in the same direction.
Both mounting feet and removal slots are on the same side for all terminal blocks, making it possible to visually ensure blocks are facing in same direction.

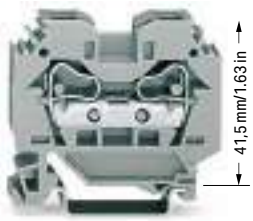


Push jumper down until fully inserted.
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers.
Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.

CAGE CLAMP®

Through and Ground Conductor Terminal Block
10 mm²; 284 Series and 16 mm²; 283 Series

Technical Data	
0.2 … 10 mm²	24 … 8 AWG
800 V / 8 kV / 3 ❶	600 V, 50 A
I_N 57 A	600 V, 65 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	284-101	50
blue	284-104 ❷	50

2-conductor ground terminal block		
green-yellow	284-107	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick



orange	284-302	100 (25)
gray	284-301	100 (25)

Separator; oversized; 2 mm thick



orange	284-322	100 (25)
gray	284-332	100 (25)

Adjacent jumper; insulated; I_N 57 A



gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A



gray	284-409	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A



gray	284-413	50 (25)

Step-down cover plate; 1 mm thick



gray	284-333	100 (25)
orange	284-343	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	284-405	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
800 V / 8 kV / 3 ❶	600 V, 65 A
I_N 76 A	600 V, 90 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	283-101	50
blue	283-104 ❷	50

2-conductor ground terminal block		
green-yellow	283-107	50

Accessories; item-specific

End and intermediate plate; 4 mm thick



orange	283-302	50 (25)
gray	283-301	50 (25)

Separator; oversized; 2 mm thick



orange	283-322	50 (25)
gray	283-332	50 (25)

Adjacent jumper; insulated; I_N 70 A



gray	283-402	50 (25)
yellow-green	283-422	50 (25)

Alternate jumper; insulated; I_N 76 A



gray	283-409	50 (25)

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A



gray	283-414	50 (25)

Step-down cover plate; 1 mm thick



gray	283-333	100 (25)
orange	283-335	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	283-405	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	283-404	25

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

See application notes for:
Step-down jumper, page 541
Test plug module, page 381
Marking, from page 640

Approvals and corresponding ratings, visit www.wago.com



Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

In this case, pay attention that:
The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.
The standard or special thin cover plate is installed on the open side of the larger block.

Step-Down Jumper; for Side-Entry Through Terminal Blocks
Installation





Side-entry terminal blocks cannot be commoned with front-entry terminal blocks via step-down jumpers. For commoning front-entry terminal blocks via step-down jumpers, see page 286.

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

Color	Item No.	Pack. Unit
gray	284-414	50 (25)

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A

Color	Item No.	Pack. Unit
gray	283-414	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)



Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.

Accessories; item-specific

Step-down cover plate; 1 mm thick

gray	284-333	100 (25)
orange	284-343	100 (25)

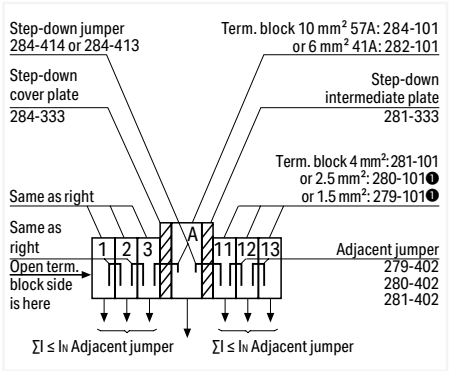
Accessories; item-specific

Step-down cover plate; 1 mm thick

gray	283-333	100 (25)
orange	283-335	100 (25)

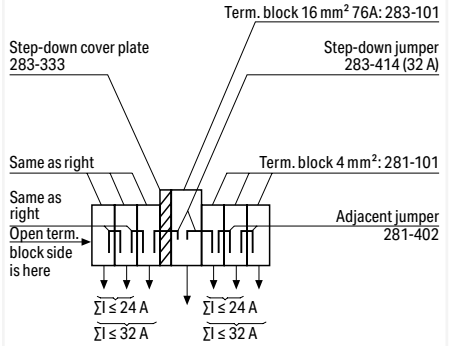
Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks

gray	281-333	100 (25)



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).

❶ Commoning with step-down jumpers from 10 mm² (284-101) to 2.5 mm² (280-101) or 1.5 mm² (279-101) terminal blocks via the terminal block rear side is not possible (see example: terminal block A to 11).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

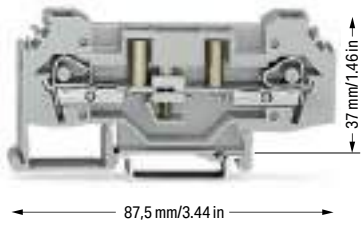


Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.

11

Disconnect/Test Terminal Block
6 mm²; 282 Series

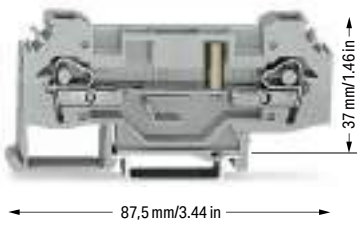
Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3	300 V, 30 A
I_N 41 A	300 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Disconnect/test terminal block; with 4 mm Ø test sockets

Color	Item No.	Pack. Unit
gray	282-131	25

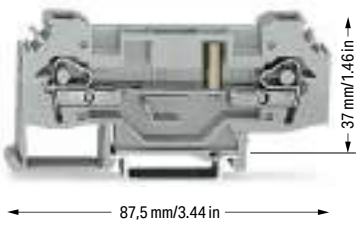
Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3	300 V, 30 A
I_N 41 A	300 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Through terminal block

Color	Item No.	Pack. Unit
gray	282-133	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V / 6 kV / 3	300 V, 30 A
I_N 41 A	300 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Disconnect/test terminal block; without test sockets

Color	Item No.	Pack. Unit
gray	282-135	25

Accessories; item-specific

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange	282-137	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide



gray	709-311	100 (25)

Accessories; item-specific

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide



gray	709-311	100 (25)

Accessories; item-specific

Alternate jumper; insulated; I_N 41 A



gray	282-409	100 (25)

Lock-out; prevents reclosing of slide link; snap-on type



orange	282-137	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide



gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide



gray	709-311	100 (25)

Accessories; 282 Series

Appropriate marking system: WMB

End and intermediate plate; 4 mm thick



gray	282-315	50 (25)
orange	282-314	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	282-405	100 (25)

Adjacent jumper; insulated; I_N 41 A



gray	282-402	100 (25)

11

Technical Data

0.2 … 6 mm²	24 … 10 AWG

Terminal block width: 16 mm / 0.63 inch
12 … 13 mm / 0.47 … 0.51 inch



Ground conductor disconnect terminal block; gray		
Color	Item No.	Pack. Unit
24 V	282-140	12
48 V	282-141	12
120 V	282-138	12
230 V	282-139	12

Accessories; item-specific

Lock-out; prevents reclosing of slide link; snap-on type

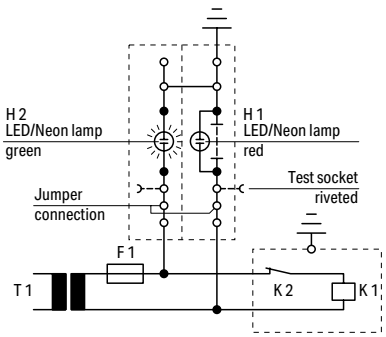


orange 282-137 100 (25)

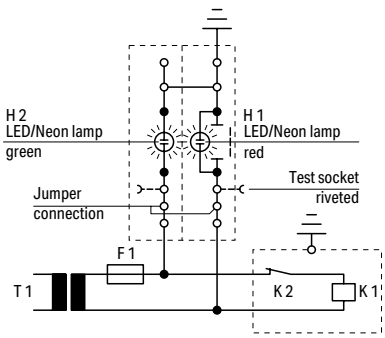
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

See application notes for:
Test plug module, page 381
Marking, from page 640

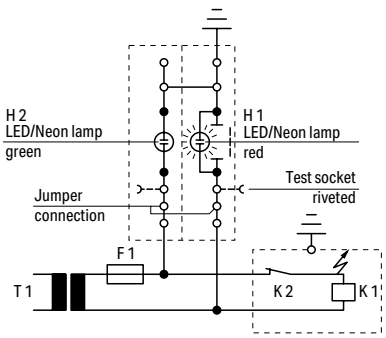
Approvals and corresponding ratings, visit www.wago.com



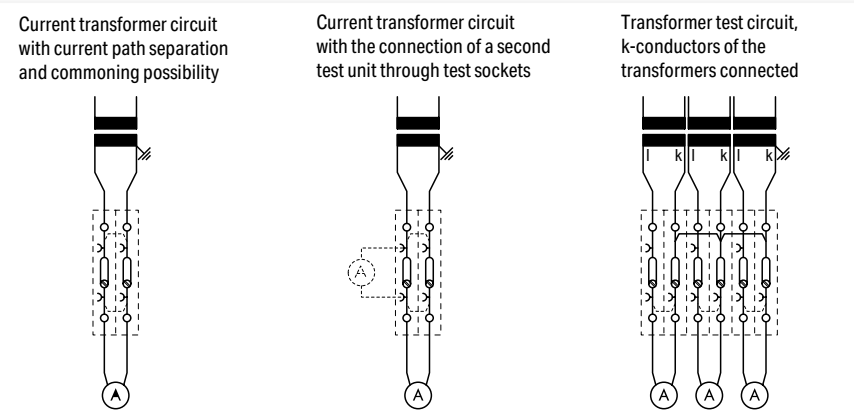
Operation
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/neon lamp illuminates.



IEC 60204/DIN VDE 0113 "Safety of machinery – Electrical equipment of machines – Part 1: General requirements," Section 9.4.3.1:

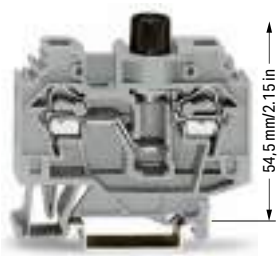
Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.
In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

Fuse Terminal Block
6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3	600 V, 10 A
I_N 10 A	250 V, 10 A
Terminal block width: 13 mm / 0.512 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block; for 5 x 20 mm miniature metric fuse; without blown fuse indication

Color	Item No.	Pack. Unit
gray	282-122	40

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3	
I_N 10 A	250 V, 10 A
Terminal block width: 13 mm / 0.512 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block; for glass cartridge fuse ¼" x 1¼"; without blown fuse indication

Color	Item No.	Pack. Unit
gray	282-120	40

2-conductor fuse terminal block; for glass cartridge fuse ¼" x 1¼"; without blown fuse indication

gray	282-128	40

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V / 6 kV / 3	600 V, 10 A
I_N 10 A	250 V, 10 A
Terminal block width: 13 mm / 0.512 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block; for 5 x 25 mm miniature metric fuse; without blown fuse indication

Color	Item No.	Pack. Unit
gray	282-126	40

Accessories; item-specific

Glass cartridge fuse; without indicator; 5 x 20 mm; 6.3 A / 250 V; medium-acting



282-451 100

Glass cartridge fuse; without indicator; ¼" x 1"; 10 A / 240 V; per BS 1362



282-458 200 (10)

Glass cartridge fuse; without indicator; ¼" x 1¼"; 10 A / 250 V; medium-acting



282-457 200 (100)

Glass cartridge fuse; without indicator; ¼" x 1¼"; very fast-acting



282-454 200 (10)

Glass cartridge fuse; with indicator; 5 x 25 mm; 6.3 A / 250 V; medium-acting



282-452 200 (10)

Glass cartridge fuse; with indicator; 5 x 25 mm, 10 A / 450 V; fast-acting



282-453 200 (10)

Accessories; 282 Series

Appropriate marking system: WMB

End and intermediate plate; 4 mm thick



orange	282-312	50 (25)
gray	282-311	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow 282-405 100 (25)

Adjacent jumper; insulated; I_N 41 A



gray 282-402 100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks



gray 209-170 50 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²



I_N 24 A 281-407 100 (25)

Operating pliers; for 281, 282, 283, 284 Series side-entry rail-mounted terminal blocks



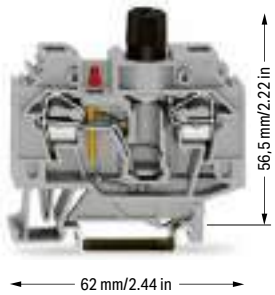
210-141 1

Technical Data

0.2 … 6 mm² | 24 … 10 AWG

Terminal block width: 13 mm / 0.512 inch

12 … 13 mm / 0.47 … 0.51 inch



2-conductor fuse terminal block; for glass cartridge fuse ¼" x 1¼"; with 24 VDC red LED

Color	Item No.	Pack. Unit
gray	282-128/281-413	40

Accessories; item-specific

Glass cartridge fuse; without indicator; ¼" x 1¼"; 10 A / 250 V; medium-acting



282-457 | 200 (100)

Glass cartridge fuse; without indicator; ¼" x 1¼"; very fast-acting



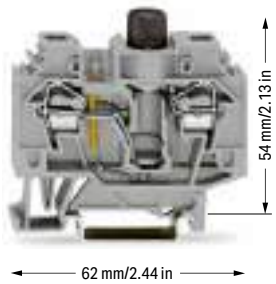
282-454 | 200 (10)

Technical Data

0.2 … 6 mm² | 24 … 10 AWG

Terminal block width: 13 mm / 0.512 inch

12 … 13 mm / 0.47 … 0.51 inch



2-conductor fuse terminal block; for glass cartridge fuse ¼" x 1¼"; with 250 VAC/220 VDC neon lamp

Color	Item No.	Pack. Unit
gray	282-128/281-417	40

2-conductor fuse terminal block; for 5 x 20 mm miniature metric fuse; with 250 VAC/220 VDC neon lamp

gray	282-124	40

2-conductor fuse terminal block; for glass cartridge fuse ¼" x 1¼"; with 120 VAC/DC neon lamp

gray	282-128/281-418	40

Accessories; item-specific

Glass cartridge fuse; without indicator; 5 x 20 mm; 6.3 A / 250 V; medium-acting



282-451 | 100

Glass cartridge fuse; without indicator; ¼" x 1¼"; 10 A / 250 V; medium-acting



282-457 | 200 (100)

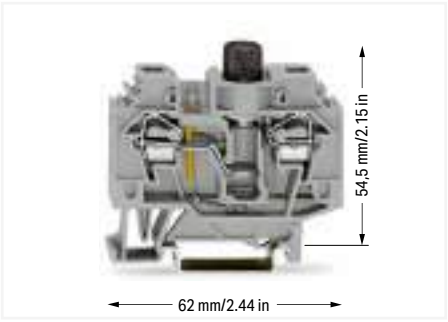
Glass cartridge fuse; without indicator; ¼" x 1¼"; very fast-acting



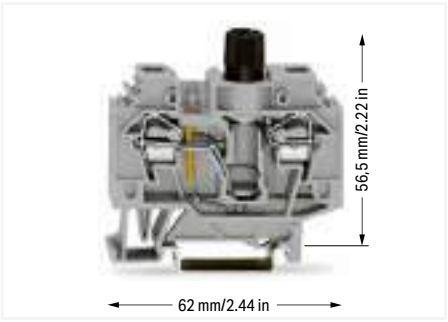
282-454 | 200 (10)

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
Electrical ratings are given by the fuse or LED nominal voltage (see page 344).

Approvals and corresponding ratings, visit www.wago.com

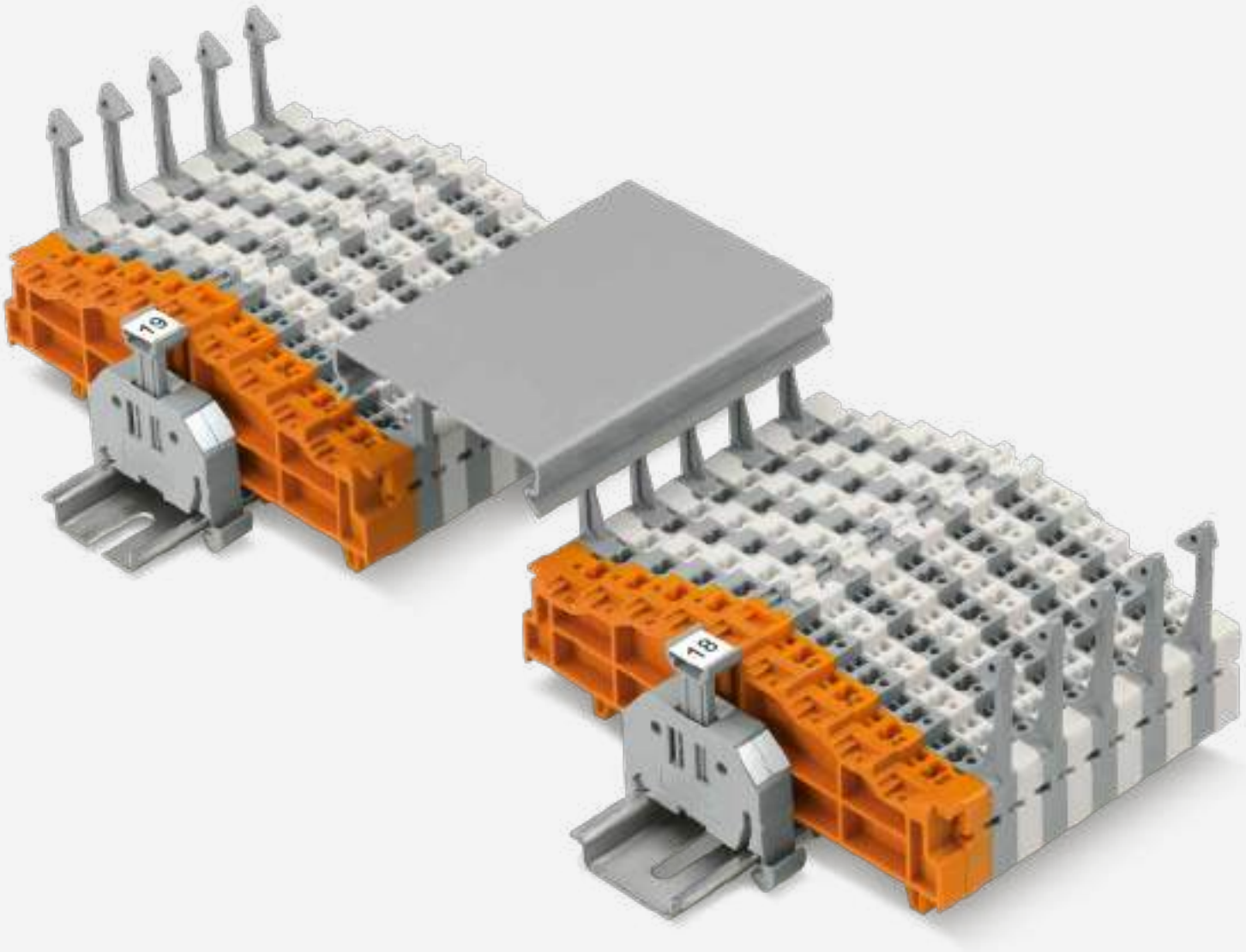


Dimensions in mm
Item No. 282-124



Dimensions in mm
Item No. 282-128/281-418

11



WAGO Patchboard Systems
WAGO Busbar Terminal Blocks

CAGE CLAMP®

WAGO Patchboard Systems
WAGO Busbar Terminal Blocks

			Page
	**Matrix Patchboards**	726 Series	592
	**Common Potential Matrix Patchboards** **Marking on the Patchboard Side** **Marking on the Supply Side**	726 Series	596
	**Matrix Patchboard Accessories**		600
	**Terminal Blocks for Matrix Patching and Common Potential Terminal Blocks** 1.5 mm² (16 AWG)	727 Series	604
	**3-Conductor, Double-Potential Terminal Blocks** 2.5 mm² (14 AWG)	280 Series	608
	**Busbar Terminal Blocks**	812 Series	611

12

Matrix Patchboards
726 Series
Description and Installation



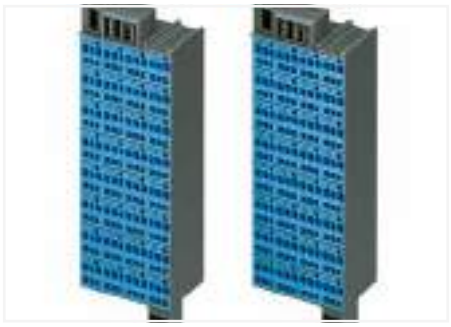
CAGE CLAMP® connection
Inserting a conductor via 210-719 Operating Tool (2.5 x 0.4 mm blade).



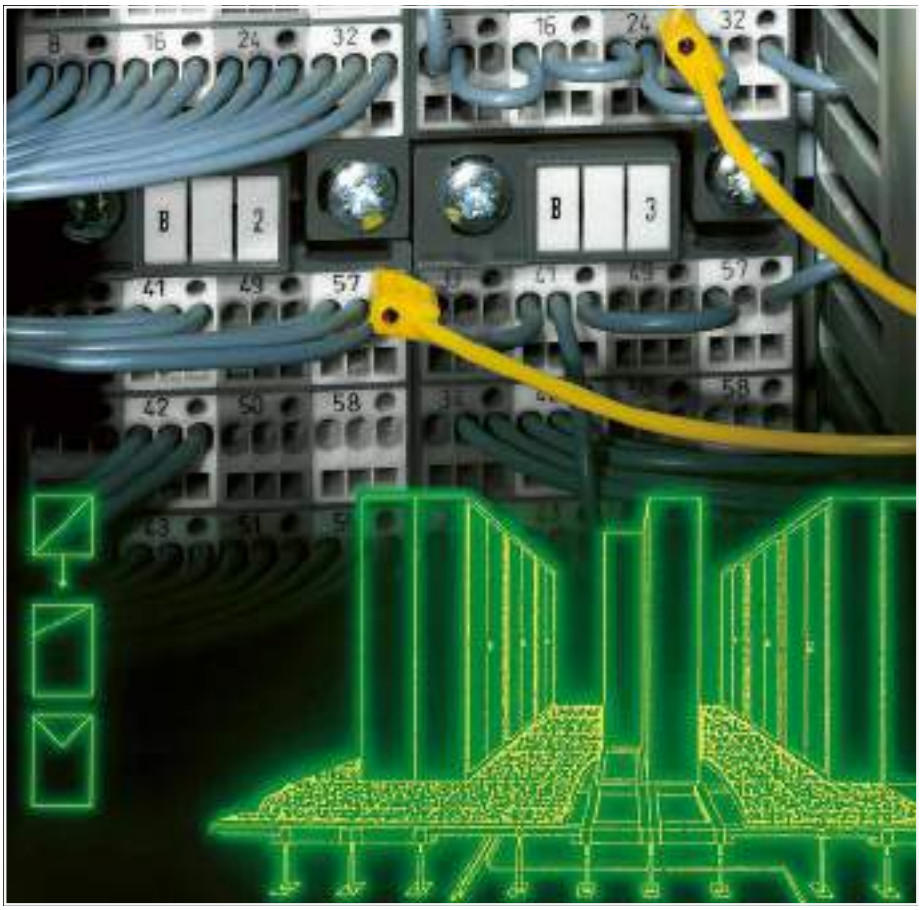
Factory-marked modules
Side 1: 1, 2, 3, 4 ...



Testing with a 2.3 mm Ø test plug.



Blue matrix patchboards are suitable for Ex i applications.





Individual group marking via WSB Quick Marking System.



Installation example:
Matrix patchboards in a frame



Installation example:
Matrix patchboards in a 19" rack



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands



Space saving:
Slimline matrix patchboard (lower right), mounted upside down





Snapping on an additional module with contact to mounting frame.



Assembling a matrix patchboard with additional module – direct connection to the mounting frame.

	Max. conductor cross section (mm²/AWG) without ferrule	Max. conductor cross section (mm²/AWG) with ferrule			
		insulated		uninsulated	
			Item No./Color		Item No.
Side 2	1.5	0.75	**216-202/** gray	1	**216-103**
Side 1	1.5	0.75	**216-202/** gray	1	**216-103**
Side 2	2.5	1.5	**216-204/** black	1.5	**216-104**
Side 1	1.5	0.75	**216-202/** gray	1	**216-103**



Terminating ferruled conductors via operating tool.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

Matrix Patchboard; 32-Pole
726 Series

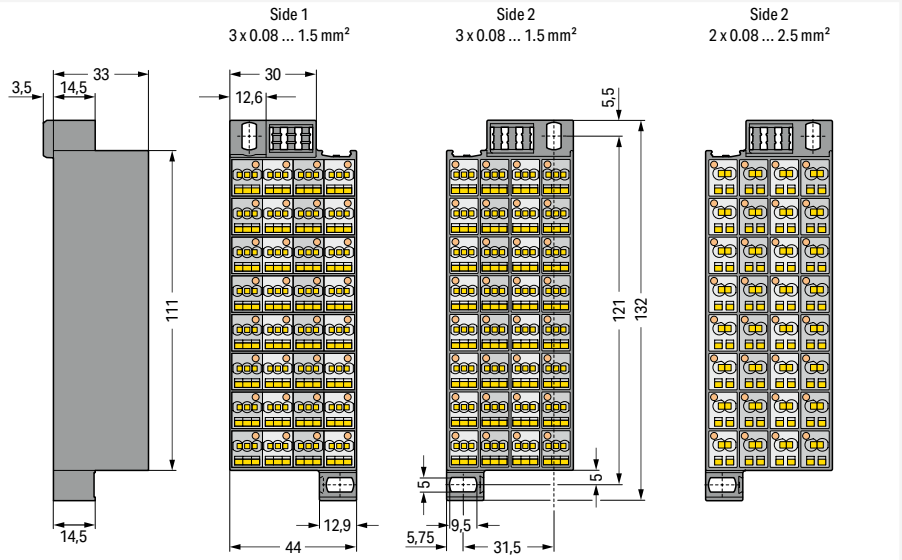
Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	





Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 32-pole		
Marking	Item No.	Pack. Unit
1 … 32	726-121	20
33 … 64	726-122	20

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 32-pole		
Marking	Item No.	Pack. Unit
1 … 32	726-221	20
33 … 64	726-222	20

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 32-pole		
1 … 32	726-141 ❷	20
33 … 64	726-142 ❷	20

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 32-pole		
1 … 32	726-241 ❷	20
33 … 64	726-242 ❷	20

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip



white 726-901 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip



dark gray 726-907 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip



light gray 726-906 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray 709-107 1

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 559

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

Group marker carrier for side 2



dark gray 726-902 50

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



1 … 10 (10x) 793-5502 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 793-5566 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



X (100x) 793-5500/793-035 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719 1

12

CAGE CLAMP®

Matrix Patchboard; 48-Pole
726 Series

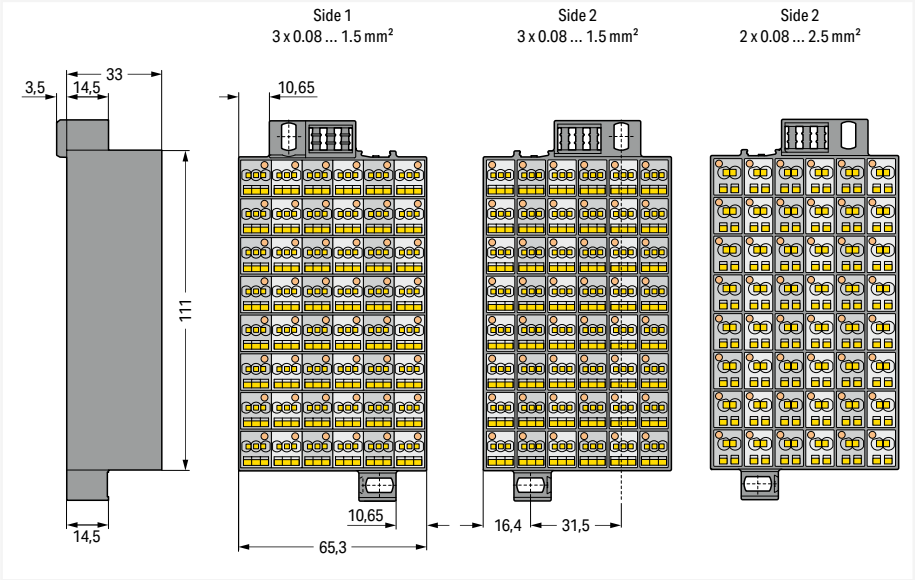
Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	





Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 48-pole		
Marking	Item No.	Pack. Unit
1 … 48	726-421	10

Matrix patchboard; Gray/white modules; Module marking on dark gray frame; Vertical module marking on sides 1 and 2; 48-pole		
Marking	Item No.	Pack. Unit
1 … 48	726-521	10

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 48-pole		
1 … 48	726-441 ❷	10

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 48-pole		
1 … 48	726-541 ❷	10

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 4 x 3 pcs/strip



white — 726-901 — 200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"; 4 x 3 pcs/strip



light gray — 726-906 — 200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 4 x 3 pcs/strip



dark gray — 726-907 — 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray — 709-107 — 1

Group marker carrier for side 2



dark gray — 726-902 — 50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 559

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain — 793-5501 — 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



1 … 10 (10x) — 793-5502 — 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) — 793-5566 — 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



X (100x) — 793-5500/793-035 — 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719 — 1

12

CAGE CLAMP®

Matrix Patchboard; 80-Pole
726 Series

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Suitable for Ex i applications

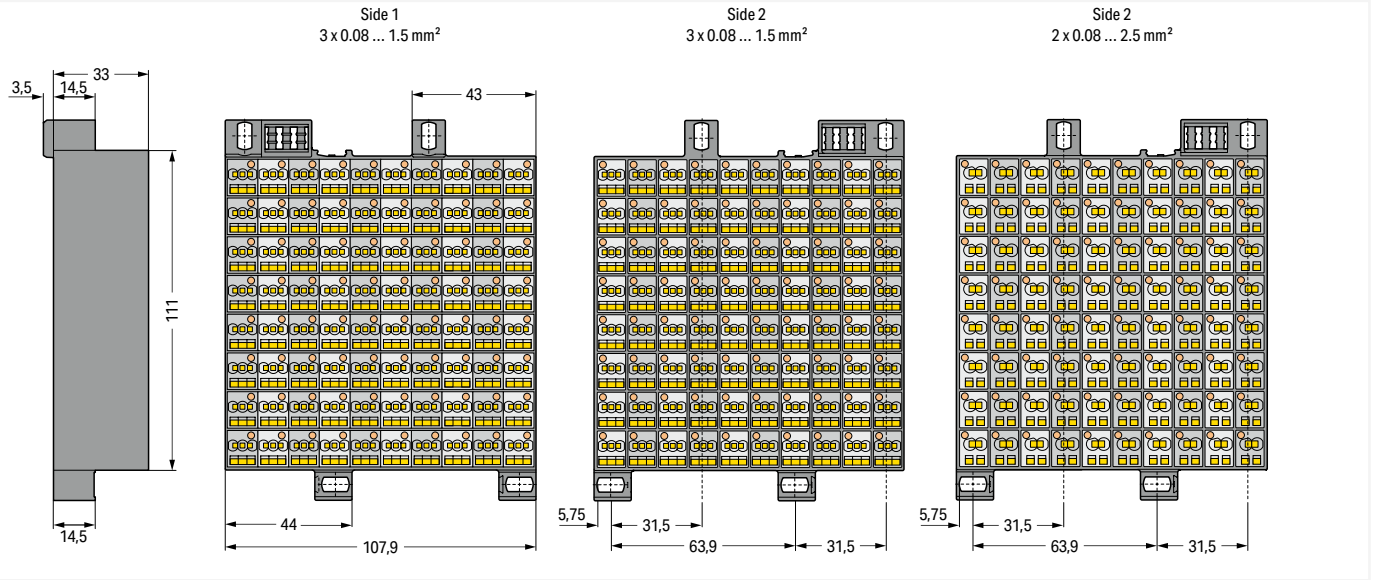
See application notes for:
Insulation stop, page 559

Approvals and corresponding ratings, visit www.wago.com





Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 80-pole		
Marking	Item No.	Pack. Unit
1 … 80	726-721	8

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 80-pole		
Marking	Item No.	Pack. Unit
1 … 80	726-821	8

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 80-pole		
1 … 80	726-741 ❷	8

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 80-pole		
1 … 80	726-841 ❷	8

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip



white 726-901 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip



light gray 726-906 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip



dark gray 726-907 200 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



1 … 10 (10x) 793-5502 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 793-5566 5

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



X (100x) 793-5500/793-035 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719 1

12

CAGE CLAMP®

Matrix Patchboard; Slimline Version; for 19" Racks; 32-Pole
726 Series

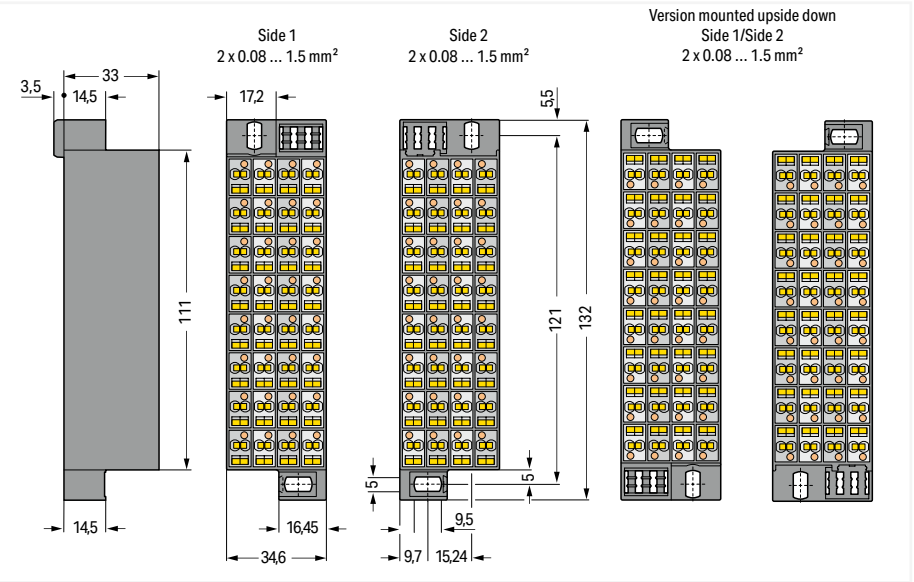
Technical Data	
Side 1: 2x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 2x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 1.5 mm²	28 … 16 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	





Dimensions in mm



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 559

Approvals and corresponding ratings, visit www.wago.com

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

Marking	Item No.	Pack. Unit
1 … 32	726-321	24
33 … 64	726-322	24

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

Marking	Item No.	Pack. Unit
1 … 32	726-325	24
33 … 64	726-326	24

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

1 … 32	726-341 ❷	24
33 … 64	726-342 ❷	24

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; for 19" racks; Mounted upside down; Slimline version; 32-pole

1 … 32	726-345 ❷	24
33 … 64	726-346 ❷	24

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 4 x 3 pcs/strip



white 726-901 200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 4 x 3 pcs/strip



dark gray 726-907 200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"; 4 x 3 pcs/strip



light gray 726-906 200 (25)

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



1 … 10 (10x) 793-5502 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 793-5566 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



X (100x) 793-5500/793-035 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719 1

12

Common Potential Matrix Patchboard; Slimline Version; for 19" Racks
726 Series

Technical Data

Side 1: I_N 24 A
24x 2x 0.08 … 2.5 mm² | 28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch
Side 2: I_N 76 A
1x or 2x 0.5 … 16 (25 "f-st") mm² | 20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch



Technical Data

Side 1: I_N 24 A
24x 2x 0.08 … 2.5 mm² | 28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch
Side 2: I_N 76 A
1x or 2x 0.5 … 16 (25 "f-st") mm² | 20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch

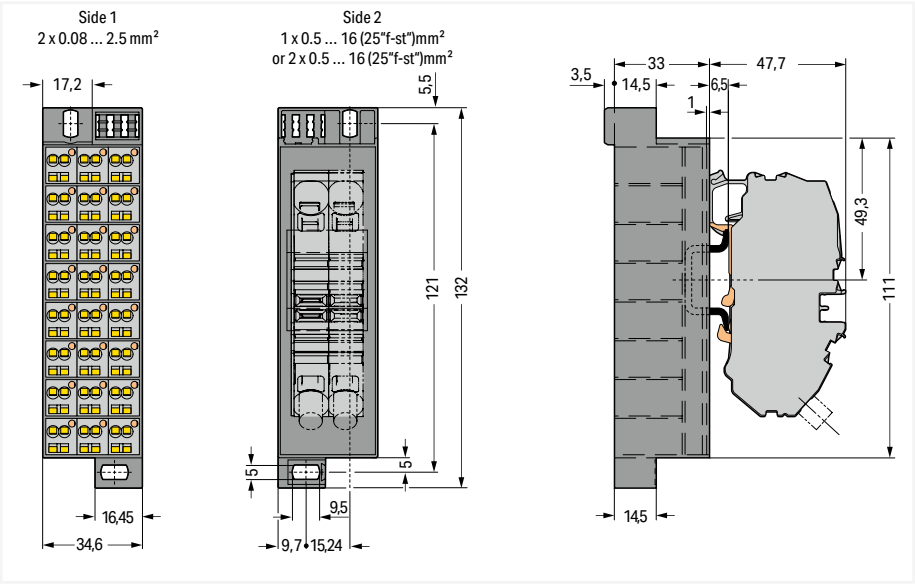


Technical Data

Side 1:
24x 2x 0.08 … 2.5 mm² | 28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch
Side 2:
1x or 2x 0.5 … 16 (25 "f-st") mm² | 20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch



Dimensions in mm



Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Gray modules; Vertical module marking; with one supply terminal block incl. end plate; for 19" racks; Slimline version

Item No.	Pack. Unit
726-601	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; White modules; Vertical module marking; with one supply terminal block incl. end plate; for 19" racks; Slimline version

Item No.	Pack. Unit
726-611	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Green-yellow modules; Vertical module marking; with one supply terminal block incl. end plate; for 19" racks; Slimline version

Item No.	Pack. Unit
726-621	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Gray modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19" racks; Slimline version

726-602	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; White modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19" racks; Slimline version

726-612	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Green-yellow modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19" racks; Slimline version

726-622	10

Accessories; item-specific

Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide



gray | 2016-7611 | 20

End and intermediate plate; 1 mm thick



gray | 2016-7691 | 100 (25)

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade



2016-721 | 1

Accessories; item-specific

Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide



white | 2016-7608 | 20

End and intermediate plate; 1 mm thick



gray | 2016-7691 | 100 (25)

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade



2016-721 | 1

Accessories; item-specific

Ground supply terminal block; 2-conductor ground terminal block; 16 mm²; 12 mm wide



green-yellow | 2016-7607 | 20

End and intermediate plate; 1 mm thick



gray | 2016-7691 | 100 (25)

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade



2016-721 | 1

Technical Data

Side 1: I_N 24 A

24x 2x 0.08 … 2.5 mm² | 28 … 14 AWG

8 … 10 mm / 0.31 … 0.39 inch

Side 2: I_N 76 A

1x or 2x 0.5 … 16 (25 “f-st”) mm² | 20 … 4 AWG

18 … 20 mm / 0.71 … 0.79 inch



Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Blue modules; Vertical module marking; with one supply terminal block incl. end plate; for 19” racks; Slimline version

	Item No.	Pack. Unit
	726-631 ❶	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Blue modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19” racks; Slimline version

	Item No.	Pack. Unit
	726-632 ❶	10

Accessories; item-specific

Spare supply terminal block; 2-conductor supply terminal block for distribution boxes; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide



blue | 2016-7614 | 20

End and intermediate plate; 1 mm thick



gray | 2016-7691 | 100 (25)

❶ Suitable for Ex i applications

See application notes for:
Insulation stop, page 559

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Common Potential Matrix Patchboards

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip



white | 726-901 | 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip



light gray | 726-906 | 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip



dark gray | 726-907 | 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray | 709-107 | 1

Group marker carrier for side 2



dark gray | 726-902 | 50

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



1 … 10 (10x) | 793-5502 | 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



1 … 50 (2x) | 793-5566 | 5

WMB marking card; white; 10 strips with 10 markers/card; horizontal marking



X (100x) | 793-5500/793-035 | 5

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white | 2009-115 | 1

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719 | 1

PUSH-IN CAGE CLAMP® CAGE CLAMP®

Common Potential Matrix Patchboard; Slimline Version; for 19" Racks; Supply Side/Patchboard Side

726 Series

Technical Data		
Side 1: I_N 76 A		
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG	
18 … 20 mm / 0.71 … 0.79 inch		
Side 2: I_N 24 A		
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG	
8 … 10 mm / 0.31 … 0.39 inch		



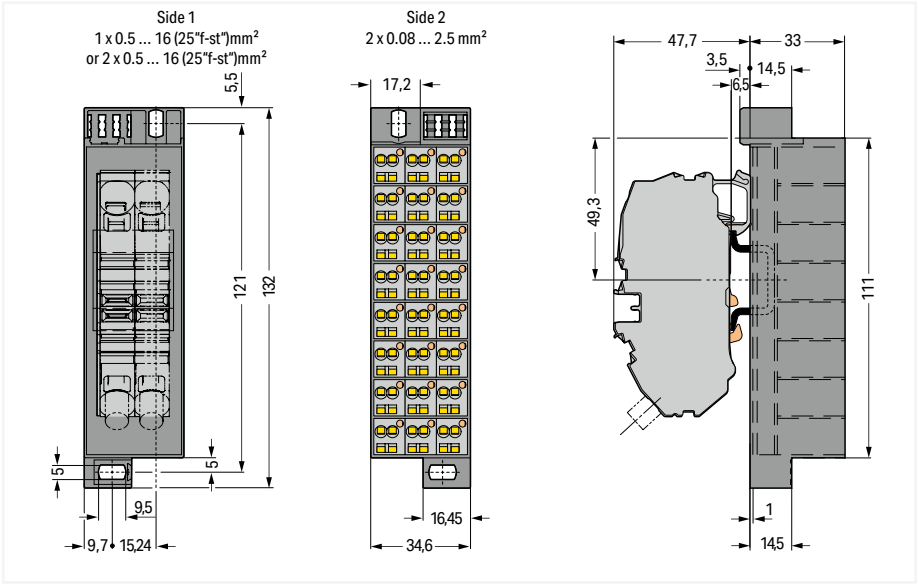
Technical Data		
Side 1: I_N 76 A		
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG	
18 … 20 mm / 0.71 … 0.79 inch		
Side 2: I_N 24 A		
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG	
8 … 10 mm / 0.31 … 0.39 inch		



Technical Data		
Side 1:		
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG	
18 … 20 mm / 0.71 … 0.79 inch		
Side 2:		
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG	
8 … 10 mm / 0.31 … 0.39 inch		



Dimensions in mm



Common potential matrix patchboard; Dark gray frame; with one supply terminal block incl. end plate; Marking 1 … 24; Gray modules; Vertical module marking; ; for 19" racks; Slimline version		
Item No.	Pack. Unit	
726-651	10	

Common potential matrix patchboard; Dark gray frame; with one supply terminal block incl. end plate; Marking 1 … 24; White modules; Vertical module marking; ; for 19" racks; Slimline version		
Item No.	Pack. Unit	
726-661	10	

Common potential matrix patchboard; Dark gray frame; with one supply terminal block incl. end plate; Marking 1 … 24; Green-yellow modules; Vertical module marking; ; for 19" racks; Slimline version		
Item No.	Pack. Unit	
726-671	10	

Common potential matrix patchboard; Dark gray frame; with two supply terminal blocks incl. end plate; Marking 1 … 24; Gray modules; Vertical module marking; for 19" racks; Slimline version		
726-652	10	

Common Potential Matrix Patchboard; Dark gray frame; with two supply terminal blocks incl. end plate; Marking 1 … 24; White modules; Vertical module marking; for 19" racks; Slimline version		
726-662	10	

Common potential matrix patchboard; Dark gray frame; with two supply terminal blocks incl. end plate; Marking 1 … 24; Green-yellow modules; Vertical module marking; for 19" racks; Slimline version		
726-672	10	

Accessories; item-specific			
Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide			
gray	2016-7611	20	

Accessories; item-specific			
Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide			
white	2016-7608	20	

Accessories; item-specific			
Ground supply terminal block; 2-conductor ground terminal block; 16 mm²; 12 mm wide			
green-yellow	2016-7607	20	

End and intermediate plate; 1 mm thick			
gray	2016-7691	100 (25)	

End and intermediate plate; 1 mm thick			
gray	2016-7691	100 (25)	

End and intermediate plate; 1 mm thick			
gray	2016-7691	100 (25)	

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade		
210-721	1	

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade		
210-721	1	

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade		
210-721	1	

Matrix Patchboard; with Push-Buttons; Slimline Version; for 19" Racks; 32-Pole
726 Series

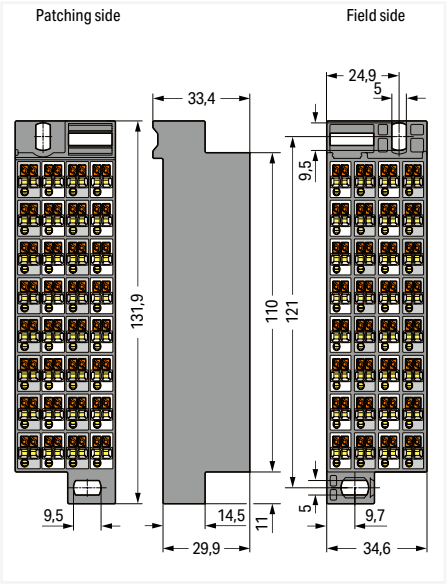
Technical Data	
Side 1: 2x 0.2 … 1.5 mm² ❶	24 … 16 AWG
Side 2: 2x 0.2 … 1.5 mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	300 V, 10 A
I_N 10 A	300 V, 10 A
10 mm / 0.39 inch	

Technical Data	
Side 1: 2x 0.2 … 1.5 mm² ❶	24 … 16 AWG
Side 2: 2x 0.2 … 1.5 mm² ❶	24 … 16 AWG
800 V / 8 kV / 3 ❷	300 V, 10 A
I_N 10 A	300 V, 10 A
10 mm / 0.39 inch	

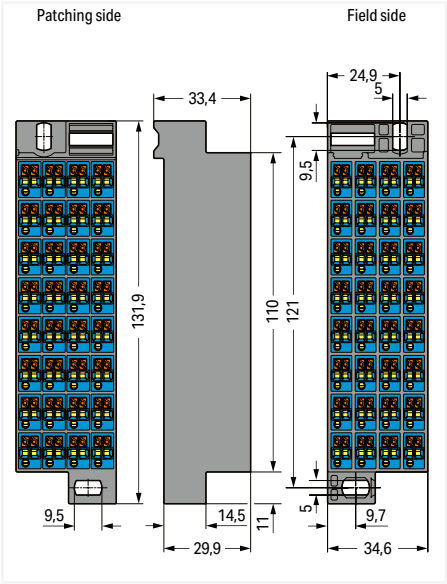




Dimensions in mm



Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; for 19" racks; Slimline version; 32-pole

Marking	Item No.	Pack. Unit
plain	726-770	30

Matrix patchboard; Dark gray frame; Blue modules; for 19" racks; Slimline version; 32-pole

Marking	Item No.	Pack. Unit
plain	726-800 ❸	30

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

1 … 32	726-771	30

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

1 … 32	726-801 ❸	30

Matrix patchboard; Dark gray frame; White/gray modules; for 19" racks; Slimline version; 32-pole

plain	726-780	30

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray	709-107	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm



white	2009-115	1

❶ Conductor range: 0.2 … 1.5 mm² "s+f-st" and 0.25 … 1 mm² "insulated ferrules; 10 mm"

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❸ Suitable for Ex i applications

See application notes for:
Marking, from page 640

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



	210-719	1

Test probe; 2 mm Ø; min. 12 mm lon; uninsulated tip; not offered by WAGO (e.g., MultiContact XPP-80/2-16)

Additional Module for Matrix Patchboards
726 Series

Technical Data	
0.08 … 4 mm²	28 … 14 AWG
0.08 … 2.5 mm²	28 … 14 AWG
500 V / 6 kV / 3 ❶	300 V, 10 A
I_N 10 A	
9 mm / 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

See application notes for:
Insulation stop, page 559

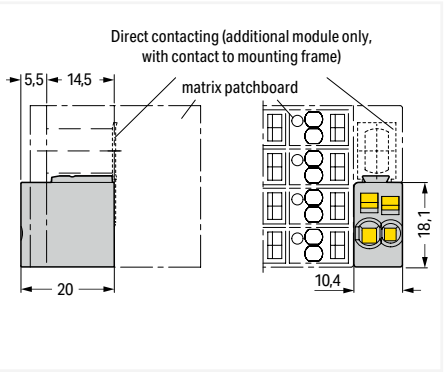
Approvals and corresponding ratings, visit www.wago.com





Snapping on an additional module with contact to mounting frame.

Dimensions in mm



Additional module for matrix patchboard; for snap-on mounting to the lower mounting adapter; with CAGE CLAMP®; Additional module with contact to the mounting frame		
Color	Item No.	Pack. Unit
white	726-903	25



Assembling a matrix patchboard with additional module – direct connection to the mounting frame.



Additional module for matrix patchboards; snaps onto the lower mounting adapter; with CAGE CLAMP®; insulated		
Color	Item No.	Pack. Unit
gray	726-904	25

CAGE CLAMP®

Insulation Stop; for Matrix Patchboard
726 Series

Suitable for patchboard side (side 1) of 1.5 mm² matrix patchboards (front side differs from back side)



Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip		
Color	Item No.	Pack. Unit
○ white	**726-901**	200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip		
○ gray	**726-906**	200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip		
● dark gray	**726-907**	200 (25)



Inserting an insulation stop into conductor entry holes of matrix patchboards.



Mounted insulation stop

12

Terminal Blocks for Matrix Patching and Common Potential Terminal Blocks
727 Series
Description and Installation



Snap individual 4- or 8-level terminal blocks onto the DIN-rail.



Slide terminal blocks together.



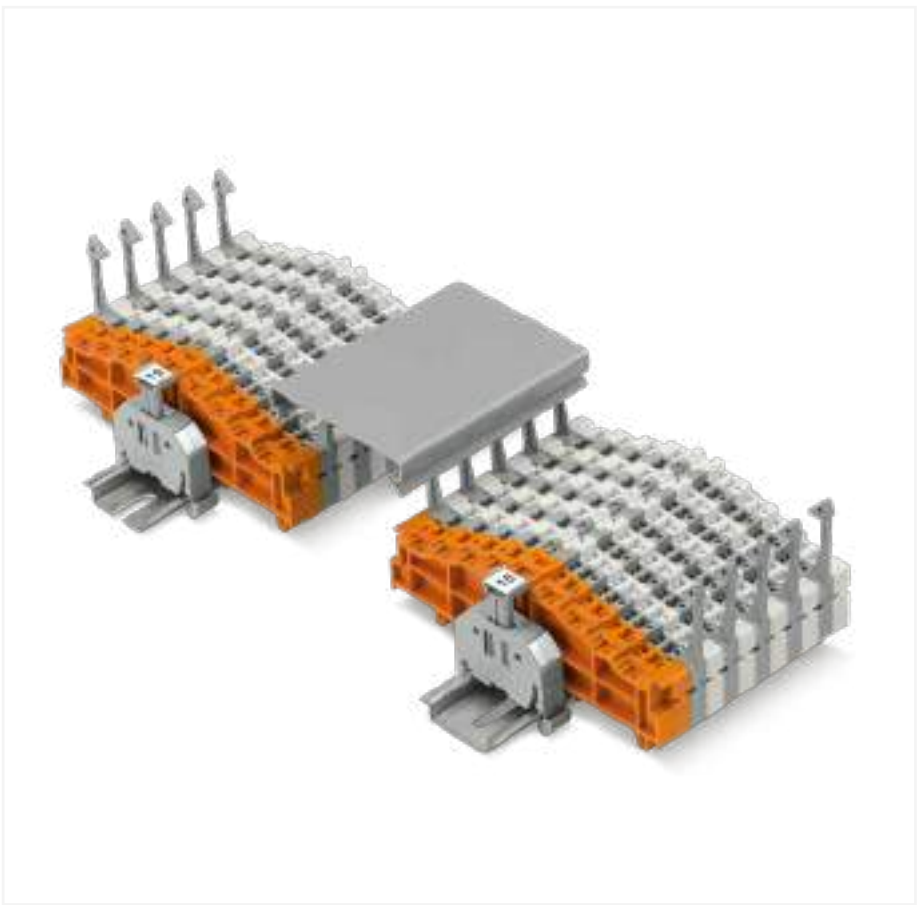
Terminal blocks for DIN-35 x 7.5 mm or DIN-35 x 15 mm rails are available.



Grip end plate at both sides and:
- push down (assembly)
- pull up (removal)



Open the assembly by laterally sliding a block via operating tool (2.5 x 0.4 mm blade).





Slide terminal block and remove from the rail with a levering action.



Connection points identified via factory-direct printing



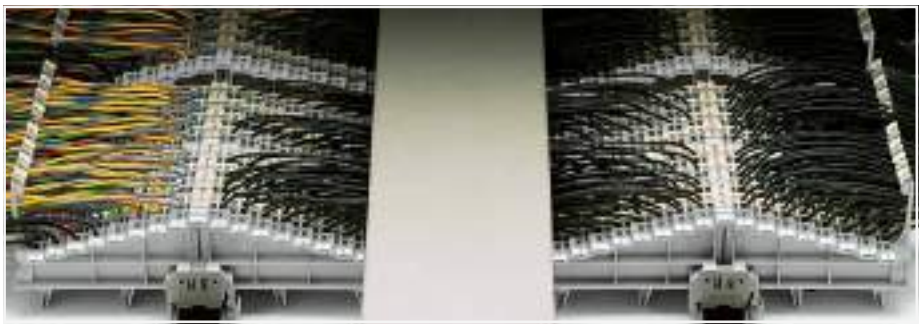
CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



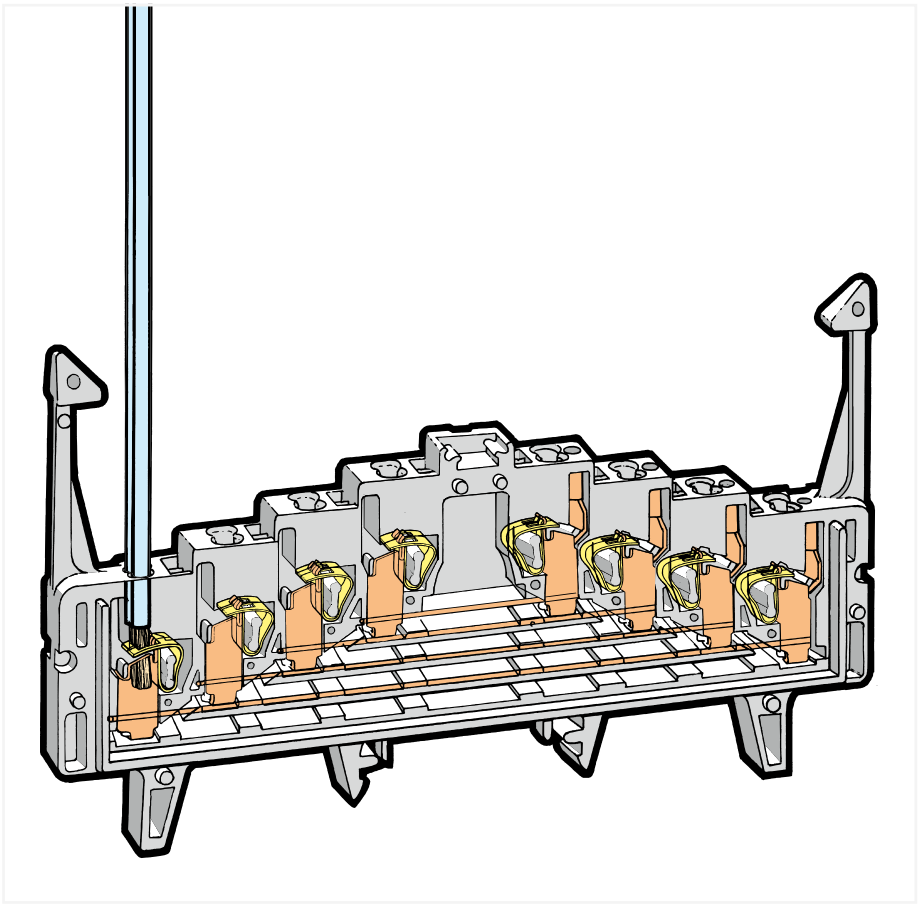
fine-stranded "f-st", also with tinned single strands



Example:
Left: Main cables fed through locking clips on the field side
Right: Control cables fed between locking clips
Center: Wiring of both patching sides



Using terminal blocks with locking clips, the wiring space between the terminal strips can be covered with a wiring duct cover.





CAGE CLAMP® connection
Inserting a conductor via 210-719 Operating Tool (2.5 x 0.4 mm blade).
Max. cross section for uninsulated ferrules 1 mm² (18 AWG), for insulated ferrules 0.75 mm² (20 AWG)



Special test contact for step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



Marking coordinates via WMB Multi Marking System.



Blue terminal blocks for matrix patching are suitable for Ex i applications.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)

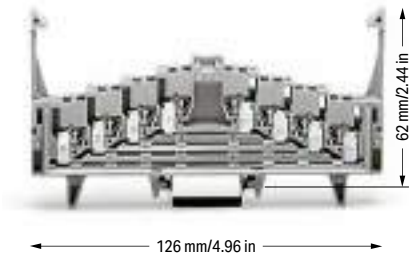


fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

4-Level Terminal Block for Matrix Patching
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 12 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



4-level terminal block for matrix patching; with locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail

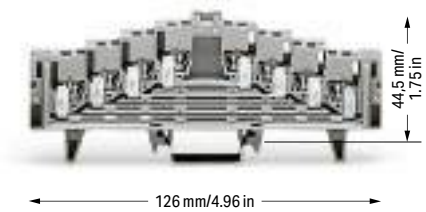
Color	Item No.	Pack. Unit
gray	727-219	50
white	727-221	50
blue	727-223 ❷	50

4-level terminal block for matrix patching; with locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	727-229	50
white	727-231	50
blue	727-233 ❷	50

Item no. suffixes for terminal blocks with marking:	
0-1-2-3--3-2-1-0	…/021-000
a-b-c-d--d-c-b-a	…/022-000
3-2-1-0--0-1-2-3	…/023-000
d-c-b-a--a-b-c-d	…/024-000

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 12 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



4-level terminal block for matrix patching; without locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
gray	727-220	50
white	727-222	50
blue	727-224 ❷	50

4-level terminal block for matrix patching; without locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	727-230	50
white	727-232	50
blue	727-234 ❷	50

Other terminal blocks with the same profile:	
0-1-2-3--3-2-1-0	…/021-000
a-b-c-d--d-c-b-a	…/022-000
3-2-1-0--0-1-2-3	…/023-000
d-c-b-a--a-b-c-d	…/024-000

Accessories; 727 Series

Appropriate marking system: WMB

4-level end plate; no marking; 7.62 mm thick



orange	727-217	25
gray	727-213	25
blue	727-214	25

4-level end plate; Marking: 0-1-2-3--3-2-1-0; 7.62 mm thick



orange	727-205	25
gray	727-255	25
blue	727-265	25

4-level end plate; Marking: a-b-c-d--d-c-b-a; 7.62 mm thick



orange	727-206	25
gray	727-256	25
blue	727-266	25

4-level end plate; Marking: 3-2-1-0--0-1-2-3; 7.62 mm thick



orange	727-207	25
gray	727-257	25
blue	727-267	25

4-level end plate; Marking: d-c-b-a--a-b-c-d; 7.62 mm thick



orange	727-208	25
gray	727-258	25
blue	727-268	25

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"); 8 pcs/strip



light gray	727-198	200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 8 pcs/strip



dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray	709-107	1

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



red	210-297	100 (25)

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.
60 V = peak value ^ (table 4, EN 60079-11 when approved by the manufacturer's authorized inspection representative

See application notes for:
Wire harness support, page 567
Marking, from page 640

Approvals and corresponding ratings, visit www.wago.com

Accessories; 727 Series

Appropriate marking systems: WMB

Wire harness support



gray	249-109	50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide



gray	209-128	200 (100)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719	1

12

CAGE CLAMP®

4-Level Common Potential Terminal Block
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



4-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-225	50
light gray	727-227	50

4-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-235	50
light gray	727-237	50

Item no. suffixes for terminal blocks with marking:

0-1-2-3--3-2-1-0	…/021-000
a-b-c-d--d-c-b-a	…/022-000
3-2-1-0--0-1-2-3	…/023-000
d-c-b-a--a-b-c-d	…/024-000

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



4-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-226	50
light gray	727-228	50

4-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-236	50
light gray	727-238	50

Other terminal blocks with the same profile:

0-1-2-3--3-2-1-0	…/021-000
a-b-c-d--d-c-b-a	…/022-000
3-2-1-0--0-1-2-3	…/023-000
d-c-b-a--a-b-c-d	…/024-000

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

See application notes for:
Wire harness support, page 567
Marking, from page 640

Approvals and corresponding ratings, visit www.wago.com

Accessories; 727 Series

Appropriate marking systems: WMB

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



210-719 1

Accessories; 727 Series

Appropriate marking system: WMB

4-level end plate; no marking; 7.62 mm thick



orange	727-217	25
gray	727-213	25

4-level end plate; Marking: 0-1-2-3--3-2-1-0; 7.62 mm thick



orange	727-205	25
gray	727-255	25

4-level end plate; Marking: a-b-c-d--d-c-b-a; 7.62 mm thick



orange	727-206	25
gray	727-256	25

4-level end plate; Marking: 3-2-1-0--0-1-2-3; 7.62 mm thick



orange	727-207	25
gray	727-257	25

4-level end plate; Marking: d-c-b-a--a-b-c-d; 7.62 mm thick



orange	727-208	25
gray	727-258	25

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 8 pcs/strip

white 727-197 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”); 8 pcs/strip



light gray 727-198 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 8 pcs/strip



dark gray 727-199 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray 709-107 1

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



red 210-297 100 (25)

Wire harness support



gray 249-109 50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide



gray 209-128 200 (100)

12

CAGE CLAMP®

8-Level Terminal Block for Matrix Patching
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



8-level terminal block for matrix patching; with locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
gray	727-119	25
white	727-121	25
blue	727-123 ❷	25

8-level terminal block for matrix patching; with locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 15 rail

gray	727-129	25
white	727-131	25
blue	727-133 ❷	25

Item no. suffixes for terminal blocks with marking:	
0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	.../001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	.../002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	.../003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	.../004-000

Accessories; 727 Series

Appropriate marking system: WMB

8-level end plate; no marking; 7.62 mm thick



orange	727-117	25
gray	727-113	25
blue	727-114	25
white	727-115	25
light gray	727-116	25

8-level end plate; Marking: 0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0; 7.62 mm thick



orange	727-105	25
gray	727-155	25
blue	727-159	25
white	727-163	25
light gray	727-167	25

8-level end plate; Marking: a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a; 7.62 mm thick



orange	727-106	25
gray	727-156	25
blue	727-160	25
white	727-164	25
light gray	727-168	25

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



8-level terminal block for matrix patching; without locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
gray	727-120	25
white	727-122	25
blue	727-124 ❷	25

8-level terminal block for matrix patching; without locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 15 rail

gray	727-130	25
white	727-132	25
blue	727-134 ❷	25

Other terminal blocks with the same profile:	
0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	.../001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	.../002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	.../003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	.../004-000

Appropriate marking system: WMB

8-level end plate; Marking: 7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7; 7.62 mm thick



orange	727-107	25
gray	727-157	25
blue	727-161	25
white	727-165	25
light gray	727-169	25

8-level end plate; Marking: h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h; 7.62 mm thick



orange	727-108	25
gray	727-158	25
blue	727-162	25
white	727-166	25
light gray	727-170	25

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"); 8 pcs/strip



light gray	727-198	200 (25)

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.
60 V = peak value ^ (table 4, EN 60079-11 when approved by the manufacturer's authorized inspection representative

See application notes for:
Wire harness support, page 567
Marking, from page 640

Note: Only combine terminal blocks and end plates that are colored **gray/white/light gray** or **orange/blue**!

Approvals and corresponding ratings, visit www.wago.com

Accessories; 727 Series

Appropriate marking systems: WMB

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 8 pcs/strip



dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray	709-107	1

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



red	210-297	100 (25)

Wire harness support



gray	249-109	50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide



gray	209-128	200 (100)

WMB marker card; white; 10 strips with 10 markers/card; for PLC input marking; for 5 … 17.5 mm terminal block width

E0.0, E0.1, …, E9.6, E9.7 (1x each)	793-933	5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



	210-719	1

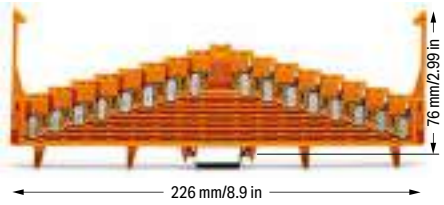
12

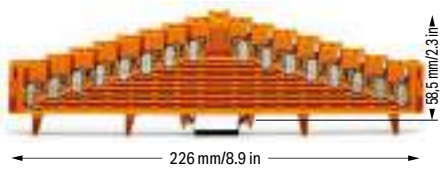
CAGE CLAMP®

8-Level Common Potential Terminal Block
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V / 4 kV / 3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	





❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

See application notes for:
Wire harness support, page 567
Marking, from page 640

Note: Only combine terminal blocks and end plates that are colored **gray/white/light gray** or **orange/blue**!

Approvals and corresponding ratings, visit www.wago.com

8-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-125	25
light gray	727-127	25

8-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-126	25
light gray	727-128	25

8-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-135	25
light gray	727-137	25

8-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-136	25
light gray	727-138	25

Item no. suffixes for terminal blocks with marking:	
0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	…/001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	…/002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	…/003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	…/004-000

Other terminal blocks with the same profile:	
0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	…/001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	…/002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	…/003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	…/004-000

Accessories; 727 Series

Appropriate marking system: WMB

8-level end plate; no marking; 7.62 mm thick



orange	727-117	25
gray	727-113	25
blue	727-114	25
white	727-115	25
light gray	727-116	25

8-level end plate; Marking: 0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0; 7.62 mm thick



orange	727-105	25
gray	727-155	25
blue	727-159	25
white	727-163	25
light gray	727-167	25

8-level end plate; Marking: a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a; 7.62 mm thick



orange	727-106	25
gray	727-156	25
blue	727-160	25
white	727-164	25
light gray	727-168	25

8-level end plate; Marking: 7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7; 7.62 mm thick



orange	727-107	25
gray	727-157	25
blue	727-161	25
white	727-165	25
light gray	727-169	25

8-level end plate; Marking: h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h; 7.62 mm thick



orange	727-108	25
gray	727-158	25
blue	727-162	25
white	727-166	25
light gray	727-170	25

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"); 8 pcs/strip



light gray	727-198	200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 8 pcs/strip



dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²



gray	709-107	1

Accessories; 727 Series

Appropriate marking systems: WMB

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V



red	210-297	100 (25)

Wire harness support



gray	249-109	50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide



gray	209-128	200 (100)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade



	210-719	1

12

CAGE CLAMP®

Terminal Blocks for Matrix Patching
280 Series
Description and Installation



Terminal blocks for matrix patching:
Inserting/removing a conductor on the terminal block's side-entry.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Terminal blocks for matrix patching:
Inserting/removing a conductor in the terminal block's center.



Using terminal blocks for matrix patching as disconnect terminal blocks
via disconnect jumpers.



Multiplying potentials
via 10-way comb-style jumper bar.
(only possible in the terminal block's center)



Separator for 3-conductor, double-potential terminal blocks (280-675)

12

CAGE CLAMP® terminates the following copper conductors:

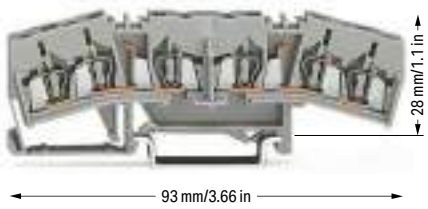
solid "s"	stranded "st"	fine-stranded "f-st", also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

Terminal Block for Matrix Patching
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V / 8 kV / 3 ❶	600 V, 10 A
I_N 18 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



3-conductor double-potential terminal block or terminal block for matrix patching
Notice: This 3-conductor double-potential terminal block cannot be commoned via adjacent jumpers.

Color	Item No.	Pack. Unit
gray	280-675	100

Accessories; for Terminal Blocks for Matrix Patching

Appropriate marking systems:
WMB/WMB Inline

End and intermediate plate; 25 mm thick

orange	280-333	25
gray	280-325	25

Separator; 3 mm oversized; 1 mm thick

gray	280-394	100 (25)
orange	280-395	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Disconnect jumper; with pull-tab; I_N = I_N of terminal block; orange

2-way	280-494	200 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
500 V / 6 kV / 3 between both current bars
(if used as disconnect terminal block or potential multiplier)

See application notes for:
Insulation stop, page 382
Comb-style jumper bar, page 384
Marking, from page 640

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Terminal Blocks for Matrix Patching

Appropriate marking systems:
WMB/WMB Inline

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

For 5 mm wide double-potential terminal blocks, two 3-conductor through terminal blocks are offered in one insulating housing on one level. This achieves a width of just 2.5 mm versus standard through terminal blocks. On each side of the terminal block are marker slots for WAGO WMB Inline markers. Via the available accessories, these terminal blocks can also be used as 4-conductor disconnect terminal blocks or potential multipliers.

12

PUSH-IN CAGE CLAMP® CAGE CLAMP®

Busbar Terminal Blocks
812 Series
Description and Installation



Snapping a ground busbar terminal block onto the N-busbar.



Unlock right and left positions to remove the ground busbar terminal block. Then pull up the block from the busbar.

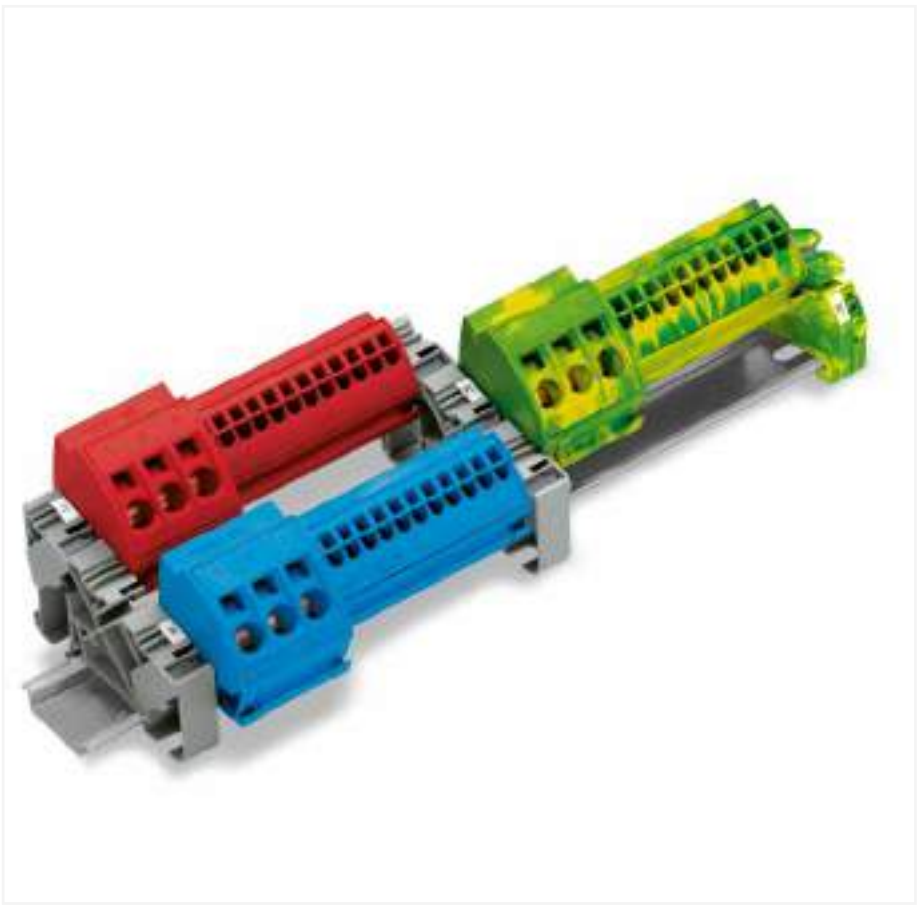
Using the 812 Series Busbar Terminal Blocks in switchgear cabinets and distribution boards permits simple and safe potential distribution on standard (10 x 3) mm busbars. Tool-free snapping of self-locking busbar terminal blocks onto the busbar enables quick and easy assembly, as well as subsequent extension. The busbar terminal blocks are available in two different versions for conductors ranging from 1.5 to 16 mm² (16–6 AWG).
Current carrying capacity: With a maximum total current of 96 A, the clamping units of the busbar terminal block can be loaded with the rated current of the conductor cross sections approved. This only applies when (10 x 3) mm busbars are used.



Busbar carrier (812-140):
Offers three receptacles for (10 x 3) mm busbars with locking device for easy mounting of the busbars. The carrier can be snapped onto the DIN-35 rail or screwed on a panel.



Ground busbar carrier (812-141):
Offers a receptacle with locking device for (10 x 3) mm busbar. Contact between the busbar and rail is made automatically by simply snapping the carrier onto the DIN-35 rail. One end of the busbar is mounted onto the ground busbar carrier, the other end is inserted into the middle position of the insulated busbar carrier.



Mixed 4 mm² (12 AWG) and 16 mm² (6 AWG) busbar terminal blocks

12



Conductor termination (4 mm²/12 AWG):
With Push-in CAGE CLAMP®, solid conductors can be terminated by simply pushing them into the 12 x 4 mm² busbar terminal block, significantly reducing wiring time.



Conductor termination (16 mm²/6 AWG):
Open the clamping unit with an operating tool when terminating solid, stranded and fine-stranded conductors.



Conductor removal (4 mm²/12 AWG and 16 mm²/6 AWG):
Open the clamping unit using an operating tool.

CAGE CLAMP® and Push-in CAGE CLAMP® terminate the following copper conductors:

solid "s"	stranded "st"	fine-stranded "f-st", also with tinned single strands	fine-stranded, tip-bonded

Busbar Terminal Block
4 mm² and 16 mm²; 812 Series

Technical Data	
0.5 … 4 mm²	20 … 12 AWG
1000 V / 6 kV / 3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 75 mm / 2.953 inch	
11 mm / 0.43 inch	



Busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection

Color	Item No.	Pack. Unit
blue	812-104	10
light gray	812-101	10
dark gray	812-102	10
red	812-103	10

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm



I_N 140 A | 210-133 | 1

Technical Data	
1.5 … 16 mm²	14 … 6 AWG
1000 V / 6 kV / 3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 38 mm / 1.496 inch	
12 mm / 0.47 inch	



Busbar terminal block 16 mm²; with CAGE CLAMP® connection

Color	Item No.	Pack. Unit
blue	812-114	12
light gray	812-111	12
dark gray	812-112	12
red	812-113	12

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

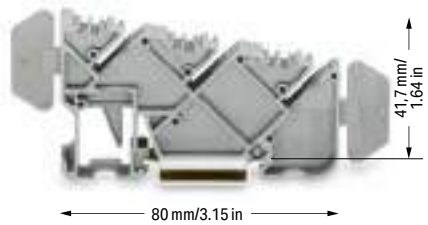


I_N 140 A | 210-133 | 1

Finger guard; touch-proof cover protects unused conductor entries

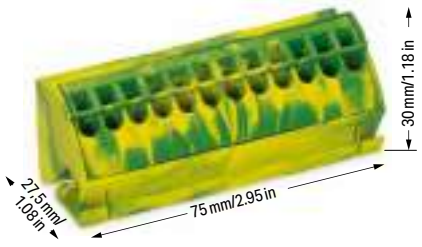


yellow | 284-400 | 100 (25)



Insulated busbar carrier; 12 mm wide

Color	Item No.	Pack. Unit
gray	812-140	25



Ground busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection

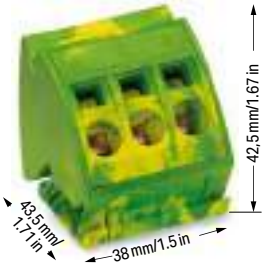
Color	Item No.	Pack. Unit
green-yellow	812-100	10

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm



I_N 140 A | 210-133 | 1



Ground busbar terminal block 16 mm²; with CAGE CLAMP® connection

Color	Item No.	Pack. Unit
green-yellow	812-110	12

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm



I_N 140 A | 210-133 | 1

Finger guard; touch-proof cover protects unused conductor entries



yellow | 284-400 | 100 (25)



Ground busbar carrier; with DIN-35 rail contact; 11 mm wide

Color	Item No.	Pack. Unit
green-yellow	812-141	25



WAGO Splicing Connectors
WAGO Lighting Connectors

PUSH WIRE® CAGE CLAMP®

WAGO Splicing Connectors
WAGO Lighting Connectors

			Page
	**COMPACT PUSH WIRE® Connectors for Junction Boxes** 2.5 mm² (14 AWG)	2273 Series	615
	**PUSH WIRE® Connectors for Junction Boxes** 4 mm² and 6 mm² (10 AWG)	773 Series	618
	**Ex PUSH WIRE® Connectors for Junction Boxes** 2.5 mm² (12 AWG) and 6 mm² (10 AWG)	773 Series	620
	**MICRO PUSH WIRE® Connectors for Junction Boxes** 0.8 mm Ø	243 Series	624
	**COMPACT Splicing Connectors for All Conductor Types** 4 mm² and 6 mm² (10 AWG)	221 Series	627
	**COMPACT Splicing Connector for All Conductor Types; for Ex eb Applications** 4 mm² and 6 mm² (10 AWG)	221 Series	636
	**Gelbox; for Splicing Connectors**	207 Series	641
	**Inline Splicing Connectors** 4 mm² (14 AWG) **Gelbox; for Inline Splicing Connectors**	221 Series 207 Series	647 651
	**CLASSIC Splicing Connectors for All Conductor Types** 2.5 mm² (14 AWG)	222 Series	653
	**Lighting Connectors** 2.5 mm² (14 AWG)	224 Series	657
	**Connector Sets**	887 Series	658
	**Luminaire Disconnect Connectors** 12 AWG	873 Series	662

13

PUSH WIRE®

COMPACT Splicing Connectors for Solid Conductors
2273 Series
Description and Installation



Advantages:
- Convenient wiring via extremely compact design
- Push-in termination of up to eight solid conductors
- Cross section range: 0.5 … 2.5 mm² (18 … 14 AWG)
- Any combination of conductor sizes is possible
- PUSH WIRE® connection terminates solid ("s") copper conductors



Strip solid conductor to 11 mm/0.43 inch (see marking).



Termination: Insert the stripped solid conductor until it hits backstop.



The transparent housing shows if conductors are fully inserted; within the colored base, a clear port shows if the conductor's strip length is correct.
Conductors are correctly stripped if the clear port shows no bare conductor on the unprinted connector side. Picture shows center conductor with exceeded strip length.



Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.



Testing via test port opposite to conductor entry.



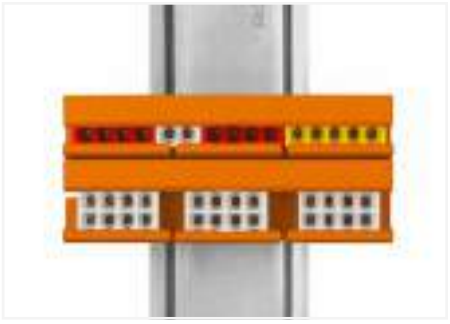


One single carrier can hold up to 24 clamping units in a very narrow space. Previously, this was only possible using rail-mount terminal blocks.

Advantages:
- Mount carrier onto DIN-35 rail or via screws – easily and quickly
- Accommodate three 2.5 mm² (12 AWG) 2273 Series Connectors in a single carrier
- Easily exchange connectors
- Large marking area for self-adhesive marking strips or for direct marking with permanent felt-tip pen



To adjust the mounting carrier, unlock the latch via operating tool (5.5 mm blade) and move the clamping slide to the required width by rotating the tool.



The mounting carrier is suitable for both connector widths.

PUSH WIRE® Connectors in Distribution Boxes
During distribution box retrofits or expansions, conductors often require extensions or additional clamping points. Individual PUSH WIRE® connectors (e.g., 2773 Series) are approved as interconnect components for building wiring applications per EN 60998. Application standards for building installation (e.g., Parts 510 and 520 from DIN VDE 0100) also place the following requirements on junction box connectors:
- They must be arranged so that operation, inspection, maintenance and access to the removable connectors is simplified.
- It must be possible to test them.
- Conductors connected from outside must be clearly and permanently assigned to their associated circuits.

These requirements cannot be met with PUSH WIRE® connectors alone. In combination with mounting carriers, the PUSH WIRE® connectors clearly meet these requirements, making them comparable to rail-mount terminal blocks. Using PUSH WIRE® connectors with mounting carriers in distribution boxes is accepted by testing authorities.



PUSH WIRE® terminates the following copper conductors:
solid "s"

For aluminum conductors, see notes in Section 15.

PUSH WIRE®

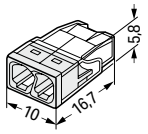
COMPACT Splicing Connector for Solid Conductors and Mounting Carrier
2.5 mm²; 2273 Series

Technical Data

0.5 … 2.5 mm² "s"	20 … 16 AWG "s"
450 V / 4 kV / 2	600 V, 20 A
I_N 24 A	
11 mm / 0.43 inch	



Dimensions in mm



COMPACT splicing connector; 2-wire connector; transparent housing; white cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

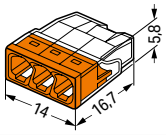
	Item No.	Pack. Unit
	2273-202	1000 (100)

Technical Data

0.5 … 2.5 mm² "s"	20 … 16 AWG "s"
450 V / 4 kV / 2	600 V, 20 A
I_N 24 A	
11 mm / 0.43 inch	



Dimensions in mm



COMPACT splicing connector; 3-wire connector; transparent housing; orange cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

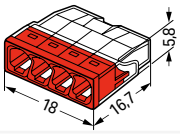
	Item No.	Pack. Unit
	2273-203	1000 (100)

Technical Data

0.5 … 2.5 mm² "s"	20 … 16 AWG "s"
450 V / 4 kV / 2	600 V, 20 A
I_N 24 A	
11 mm / 0.43 inch	



Dimensions in mm

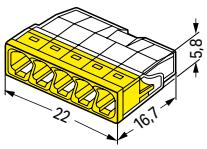


COMPACT splicing connector; 4-wire connector; transparent housing; red cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

	Item No.	Pack. Unit
	2273-204	1000 (100)



Dimensions in mm

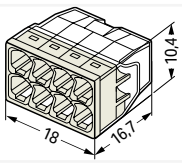


COMPACT splicing connector; 5-wire connector; transparent housing; yellow cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

	Item No.	Pack. Unit
	2273-205	1000 (100)



Dimensions in mm



COMPACT splicing connector; 8-wire connector; transparent housing; light gray cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

	Item No.	Pack. Unit
	2273-208	500 (50)



Mounting carrier; for single- and double-row connectors

	Item No.	Pack. Unit
orange	2273-500	50 (10)

Accessories; item-specific

Marking strips; on reel; 5 mm wide; plain; self-adhesive; white



white	210-834	1

Accessories; 2273 Series

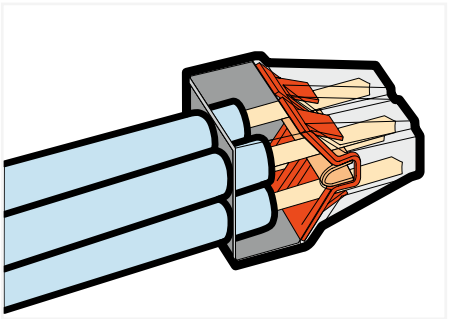
Syringe; contains 20 ml "Alu-Plus" Contact Paste



249-130	20 (5)

13

PUSH WIRE® Connectors for Junction Boxes
773 Series
Description and Installation





Strip a solid conductor to 12 mm (0.47 inch).



Termination: Insert stripped solid conductor until it hits backstop.



Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.



Testing

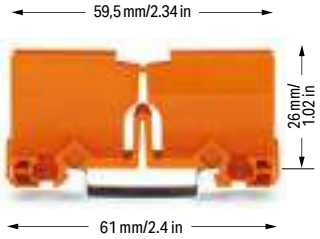




PUSH WIRE®
terminates the following copper conductors:
solid “s“

For aluminum conductors, see notes in Section 15.

Mounting Carrier; for PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount
773 Series




Use the cover as an end plate.

Mounting carrier; for all 773 Series PUSH WIRE® Connectors for Junction Boxes		
Color	Item No.	Pack. Unit
orange	773-332	50 (10)

Accessories; item-specific			
Marking strips; on reel; 5 mm wide; plain; self-adhesive; white			
	white	210-834	1


Snap the mounting carrier onto the DIN-rail.


Remove the mounting carrier from the DIN-rail.


A mounting carrier (see accessories) suits applications where the connectors must be marked and secured in position. The DIN-35 rail-mount carrier fits up to six connectors and can also be mounted on a flat surface using two screws.

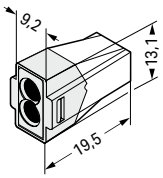
Using this PUSH WIRE® connector, a large range of wiring applications can be achieved in distribution or junction boxes. To mention just a few: potential multiplication and changing from or to 6 mm² (10 AWG) conductor size.

PUSH WIRE® Junction Box Connector for Solid Conductors
4 mm²; 773 Series

Technical Data
1.5 … 4 mm² “s”
400 V / 4 kV / 2 ❶
I_N 32 A
12 mm / 0.47 inch



Dimensions in mm



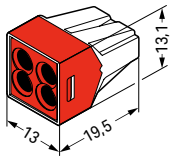
PUSH WIRE® junction box connector for solid conductors up to 4 mm²; 2-wire connector; transparent brown housing; white cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
773-602	1000 (100)

Technical Data
1.5 … 4 mm² “s”
400 V / 4 kV / 2 ❶
I_N 32 A
12 mm / 0.47 inch



Dimensions in mm



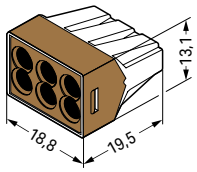
PUSH WIRE® junction box connector for solid conductors up to 4 mm²; 4-wire connector; transparent brown housing; red cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
773-604	1000 (100)

Technical Data
1.5 … 4 mm² “s”
400 V / 4 kV / 2 ❶
I_N 32 A
12 mm / 0.47 inch



Dimensions in mm



PUSH WIRE® junction box connector for solid conductors up to 4 mm²; 6-wire connector; transparent brown housing; brown cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
773-606	500 (50)

Accessories; 773 Series

Syringe; contains 20 ml “Alu-Plus” Contact Paste



249-130 20 (5)

Mounting carrier; for single- and double-row connectors



orange 773-332 50 (10)

13

PUSH WIRE®

PUSH WIRE® Connector for Junction Boxes
2.5 mm² and 6 mm²; 773 Series

Technical Data	
0.75 … 2.5 mm² “s”	18 … 12 AWG “s”
1.5 … 2.5 mm² “st”	16 … 12 AWG “st”
400 V / 4 kV / 2 ❶	600 V, 20 A
I_N 24 A	600 V, 20 A
12 mm / 0.47 inch	

Technical Data	
2.5 … 6 mm² “s+st”	14 … 10 AWG “s+st”
400 V / 4 kV / 2 ❶	600 V, 30 A
I_N 41 A	600 V, 30 A
12 … 13 mm / 0.47 … 0.51 inch	

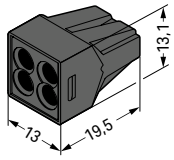
❶ In grounded power lines
400 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

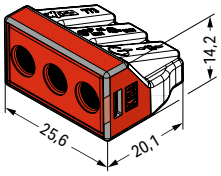




Dimensions in mm



Dimensions in mm



PUSH WIRE® connector for junction boxes; 4-wire connector; continuous operating temperature: 105 °C; surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
● black	773-514	1000 (100)

PUSH WIRE® connector for junction boxes; 3-wire connector; transparent housing; red cover; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C

	Item No.	Pack. Unit
	773-173	500 (50)

Accessories; 773 Series

Syringe; contains 20 ml “Alu-Plus” Contact Paste



249-130 20 (5)



PUSH WIRE® Connectors in Distribution Boxes

During distribution box retrofits or expansions, conductors often require extensions or additional clamping points. Individual PUSH WIRE® connectors (e.g., 773 Series) are approved as interconnect components for building wiring applications per EN 60998. Application standards for building installation (e.g., Parts 510 and 520 from DIN VDE 0100) also place the following requirements on junction box connectors:

- They must be arranged so that operation, inspection, maintenance and access to the removable connectors is simplified.
- It must be possible to test them.
- Conductors connected from outside must be clearly and permanently assigned to their associated circuits.

These requirements cannot be met with PUSH WIRE® connectors alone. In combination with mounting carriers, the PUSH WIRE® connectors clearly meet these requirements, making them comparable to rail-mount terminal blocks. Using PUSH WIRE® connectors with mounting carriers in distribution boxes is accepted by testing authorities.

13

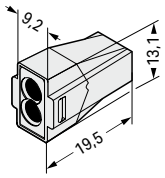
PUSH WIRE®

Ex PUSH WIRE® Connector for Junction Boxes
2.5 mm² and 6 mm²; 773 Series

Technical Data	
0.75 … 2.5 mm² “s”	18 … 14 AWG “s” 16 … 12 AWG “st”
550 V ❶	
I_N 24 A	
12 mm / 0.47 inch	



Dimensions in mm



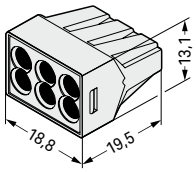
PUSH WIRE® connector for junction boxes; 2-wire connector

Color	Item No.	Pack. Unit
◯ light gray	773-492 ❷	1000 (100)

Technical Data	
0.75 … 2.5 mm² “s”	18 … 14 AWG “s” 16 … 12 AWG “st”
550 V ❶	
I_N 24 A	
12 mm / 0.47 inch	



Dimensions in mm



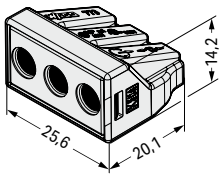
PUSH WIRE® connector for junction boxes; 6-wire connector

Color	Item No.	Pack. Unit
◯ light gray	773-496 ❷	500 (50)

Technical Data	
2.5 … 6 mm² “s”	14 … 10 AWG “s”
550 V ❶	
I_N 42 A	
12 … 15 mm / 0.47 … 0.59 inch	



Dimensions in mm

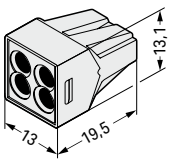


PUSH WIRE® connector for junction boxes; 3-wire connector

Color	Item No.	Pack. Unit
◯ light gray	773-493 ❷	500 (50)



Dimensions in mm

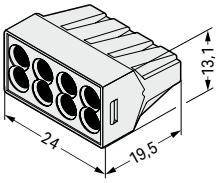


PUSH WIRE® connector for junction boxes; 4-wire connector

	Item No.	Pack. Unit
◯ light gray	773-494 ❷	1000 (100)



Dimensions in mm



PUSH WIRE® connector for junction boxes; 8-wire connector

	Item No.	Pack. Unit
◯ light gray	773-498 ❷	500 (50)

13

Mounting Carrier; for Ex PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount
773 Series



Mounting carrier; for Ex PUSH WIRE® junction box connectors		
Color	Item No.	Pack. Unit
◯ light gray	773-331	50 (10)

Accessories; item-specific			
Marking strips; on reel; 5 mm wide; plain; self-adhesive; white			
	white	210-834	1

❶ 275 V at a distance < 10 mm to parts of other potentials

❷ To be used only in conjunction with a mounting carrier (773-331)

Approvals and corresponding ratings, visit www.wago.com


Wiring example in an Ex junction box


Insert the connectors into the carrier.


Use the cover as an end plate.


Snap the mounting carrier onto the DIN-rail.

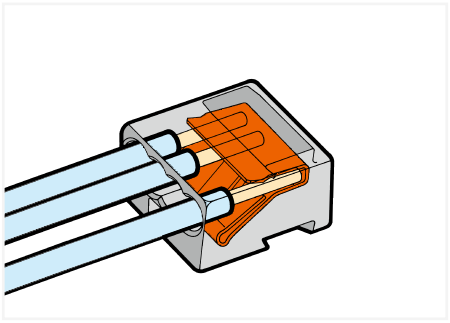

Remove the mounting carrier from the DIN-rail.

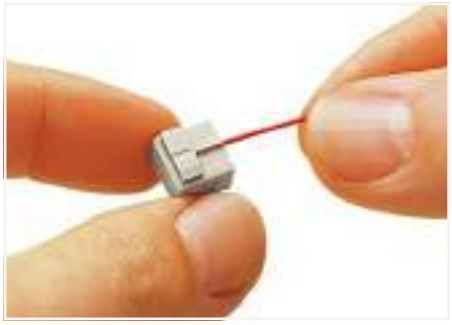
Ex PUSH WIRE® connectors are ideal for distribution and junction boxes, as well as control and operating systems. When used in hazardous areas, they offer the following advantages over traditional connectors:

- Time- and cost-saving PUSH WIRE® connection
- Vibration-proof, maintenance-free connections
- 100% touch-proof protection
- Connectors can be secured in position via mounting carriers
- One single carrier equipped with 2-, 4-, 6- and 8-wire connectors holds up to 16 clamping units according to user requirements, saving materials and related costs
- Available as OEM products for manufacturers and suppliers of enclosures and distribution boxes used in hazardous areas

PUSH WIRE®

MICRO PUSH WIRE® Junction Box Connectors for Solid Conductors
243 Series
Description and Installation





Strip solid conductors to 5 … 6 mm (0.19 … 0.23 inch).



Connector strips:
Assembling modular connectors into connector strips.



Termination: Insert stripped conductor until it hits backstop.



Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.



Testing



Commoned connector strips



PUSH WIRE®
terminates the following copper conductors:
solid “s”

PUSH WIRE® connectors for KNX applications, see Volume 2 “PCB Terminal Blocks and Connectors”

Mounting Carrier; for MICRO PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount

243 Series



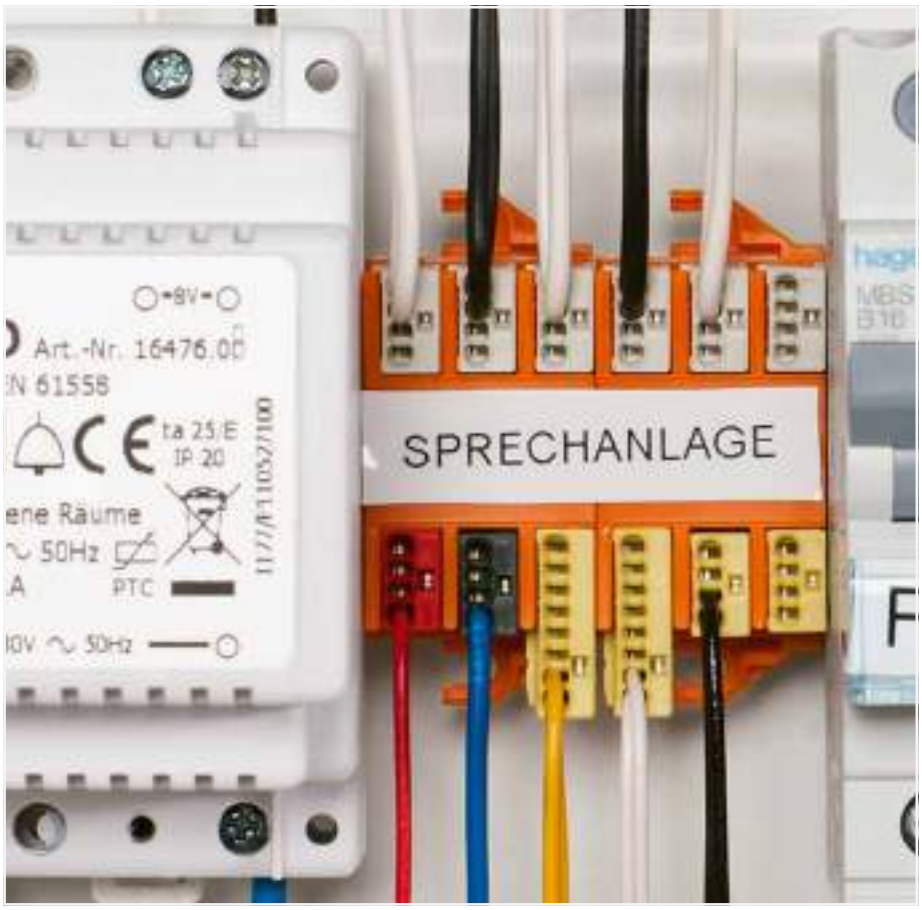
Inserting a MICRO junction box connector into the mounting carrier.



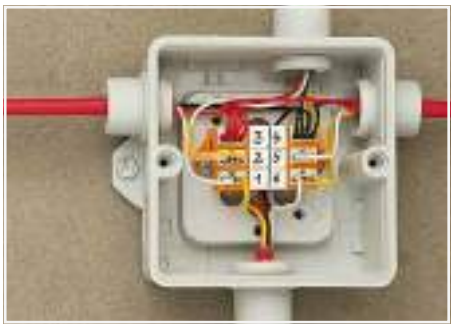
Removing a mounting carrier from the assembly.



Example of a residential door bell application – carriers mounted on a DIN-35 rail



Example of a residential intercom application



Typical application in a terminal box for burglar alarm – screw-mounted carrier

Quick Fix Mounting

Realizing MICRO PUSH WIRE® connectors for junction boxes are ideal for DIN-rail-mount panel applications, electrical installers have requested the ability to use them in distribution panels. These connectors provide easy connections for smaller conductors used in low-current applications. They are well-suited to terminating telephone-style conductors for connecting alarms, bells, door sensors, communication systems, etc.

The mounting carrier is WAGO's professional solution. It is available with mounting slots for 4 or 6 connectors.

Depending on the number of conductors, each mounting slot can accommodate a 4- or 8-conductor MICRO PUSH WIRE® junction box connector. The connectors simply snap into the mounting slots and are removable, allowing conductors to be exchanged during changeover.

The carrier is designed for easy mounting directly to the DIN-35 rail, or to a panel, via the screw-mount flanges provided on both sides. A large marking area for direct marking with a permanent felt-tip pen or for pre-printed self-adhesive marking strips is provided for clear circuit identification.

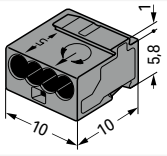
PUSH WIRE®

MICRO PUSH WIRE® Connector for Junction Boxes
Ø 0.8 mm and Ø 0.5 mm; 243 Series

Technical Data	
0.6 … 0.8 mm Ø “s” ❶	22 … 20 AWG “s”
100 V / 1.5 kV / 2 ❷	150 V, 7 A
I_N 6 A	150 V, 7 A
5 … 6 mm / 0.2 … 0.24 inch	



Dimensions in mm



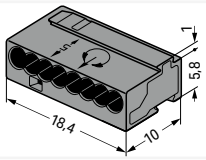
MICRO PUSH WIRE® connector for junction boxes; 4-wire connector; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
dark gray	243-204	1000 (100)
red	243-804	1000 (100)

Technical Data	
0.6 … 0.8 mm Ø “s” ❶	22 … 20 AWG “s”
100 V / 1.5 kV / 2 ❷	150 V, 7 A
I_N 6 A	150 V, 7 A
5 … 6 mm / 0.2 … 0.24 inch	



Dimensions in mm



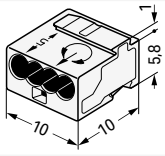
MICRO PUSH WIRE® connector for junction boxes; 8-wire connector; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
dark gray	243-208	500 (50)
red	243-808	500 (50)

Technical Data	
0.4 … 0.5 mm Ø “s”	26 … 24 AWG “s”
100 V / 1.5 kV / 2 ❷	
I_N 6 A	150 V, 7 A
5 … 6 mm / 0.2 … 0.24 inch	



Dimensions in mm

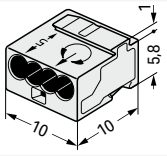


MICRO PUSH WIRE® connector for junction boxes; 4-wire connector; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
transparent	243-144	1000 (100)



Dimensions in mm

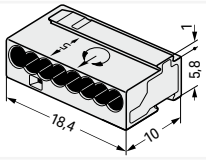


MICRO PUSH WIRE® connector for junction boxes; 4-wire connector; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
light gray	243-304	1000 (100)
yellow	243-504	1000 (100)



Dimensions in mm



MICRO PUSH WIRE® connector for junction boxes; 8-wire connector; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
light gray	243-308	500 (50)
yellow	243-508	500 (50)

13

Mounting Carrier; for MICRO PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount

243 Series



❶ When using conductors of the same diameter, 0.5 mm (24 AWG) or 1 mm (18 AWG) diameters are also possible.

❷ 100 V = rated voltage
1.5 kV = rated impulse voltage
2 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

Quick Fix Mounting

Realizing MICRO PUSH WIRE® connectors for junction boxes are ideal for DIN-rail-mount panel applications, electrical installers have requested the ability to use them in distribution panels. These connectors provide easy connections for smaller conductors used in low-current applications. They are well-suited to terminating telephone-style conductors for connecting alarms, bells, door sensors, communication systems, etc.

The mounting carrier is WAGO's professional solution. It is available with mounting slots for 4 or 6 connectors.

Depending on the number of conductors, each mounting slot can accommodate a 4- or 8-conductor MICRO PUSH WIRE® junction box connector. The connectors simply snap into the mounting slots and are removable, allowing conductors to be exchanged during changeover.

The carrier is designed for easy mounting directly to the DIN-35 rail, or to a panel, via the screw-mount flanges provided on both sides. A large marking area for direct marking with a permanent felt-tip pen or for pre-printed self-adhesive marking strips is provided for clear circuit identification.

Mounting carrier; for 4 connectors		
Color	Item No.	Pack. Unit
orange	**243-112**	50 (10)

Accessories

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white

	white	**210-833**	1





Mounting carrier; for 6 connectors		
Color	Item No.	Pack. Unit
orange	**243-113**	50 (10)

Accessories

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white

	white	**210-833**	1

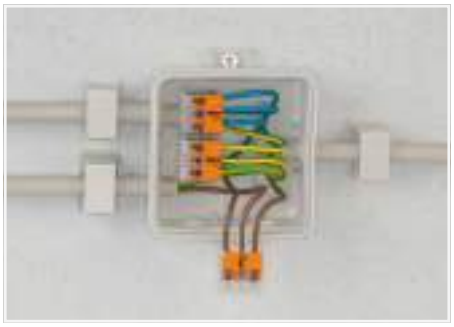
CAGE CLAMP®

COMPACT Splicing Connectors for All Conductor Types
221 Series
Description and Installation


Strip conductor to 11 mm (0.43 inch).


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.


Then, lower the lever to close the clamp.


Wiring fine-stranded conductors in a junction box.


Custom low-voltage lighting system




Wiring fine-stranded conductors in a junction box for in-floor heating.


Lighting distribution in ceiling canopy


Pendant light connection in suspended ceilings

CAGE CLAMP® terminates the following copper conductors:
solid "s" | stranded "st" | fine-stranded "f-st", also with tinned single strands | fine-stranded, tip-bonded

CAGE CLAMP®

COMPACT Splicing Connector for All Conductor Types
4 mm²; 221 Series

Technical Data	
0.2 … 4 mm² "s+str"	24 … 12 AWG
0.14 … 4 mm² "f-st"	600 V, 20 A
450 V / 4 kV / 2 ❶	600 V, 20 A
I_N 32 A	
11 mm / 0.43 inch	

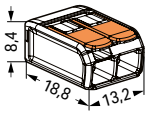
Technical Data	
0.2 … 4 mm² "s+str"	24 … 12 AWG
0.14 … 4 mm² "f-st"	600 V, 20 A
450 V / 4 kV / 2 ❶	600 V, 20 A
I_N 32 A	
11 mm / 0.43 inch	

❶ 450 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com



Dimensions in mm

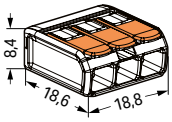


COMPACT splicing connector; for all conductor types; 2-conductor; with levers; transparent housing; continuous operating temperature (max.): 105 °C; surrounding air temperature: max 85 °C (T85)

Item No.	Pack. Unit
221-412	1000 (100)



Dimensions in mm

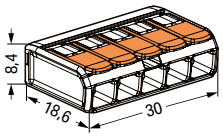


COMPACT splicing connector; for all conductor types; 3-conductor; with levers; transparent housing; continuous operating temperature (max.): 105 °C; surrounding air temperature: max 85 °C (T85)

Item No.	Pack. Unit
221-413	500 (50)



Dimensions in mm



COMPACT splicing connector; for all conductor types; 5-conductor; with levers; transparent housing; continuous operating temperature (max.): 105 °C; surrounding air temperature: max 85 °C (T85)

Item No.	Pack. Unit
221-415	250 (25)



Compact, lever-operated splicing connectors:
Tool-free connection of up to five stripped, fine-stranded conductors from 0.14 … 4 mm², as well as solid or stranded conductors from 0.2 … 4 mm² (24 … 12 AWG).

How these work:
Pull up an orange lever to open the clamping unit. Then insert the conductor and push the lever back down, flush with the connector housing.

Safety:
The specially designed rest position of the lever reliably prevents accidental unclamping of a connected conductor.
Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

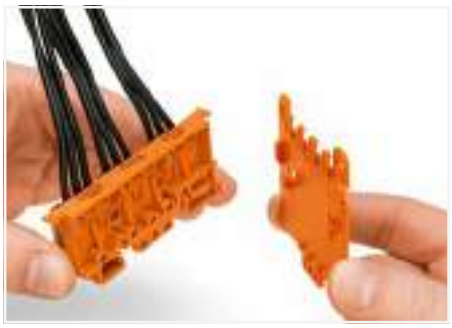
Mounting Carrier
221 Series
Installation


Inserting a connector into the mounting carrier.


Removing a connector from the mounting carrier.


Removing a conductor.


Testing connectors via test slots on top of the carrier.

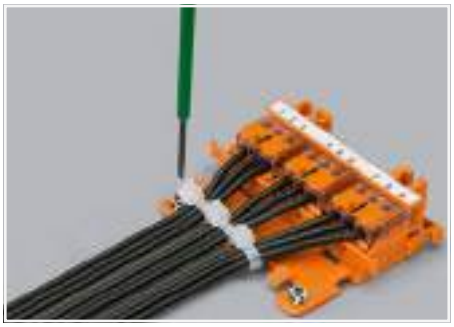

Securing a strain relief plate (222-505) to the mounting carrier.


Snapping the angled DIN-rail adapter (222-510) onto the mounting carrier.


Strain relief via cable ties on the mounting carrier (transverse to the connectors' wiring direction) – clamping units labeled via marking strips (210-334)

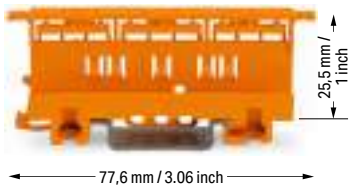

Vertical mounting with strain relief plate on DIN-35 rail


Horizontal mounting on DIN-35 rail using an angled DIN-rail adapter


Horizontal screw mounting with strain relief plate on a flat surface


Vertical screw mounting with strain relief plate on a flat surface

Mounting Carrier
221 Series



Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); 17.5 mm wide

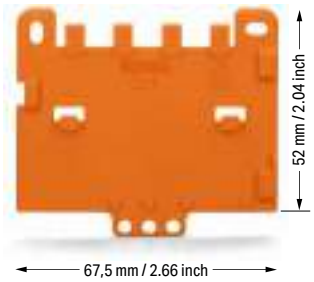
Color	Item No.	Pack. Unit
orange	**221-500**	50 (10)
blue	**221-500/000-006** ❶	50 (10)
dark gray/yellow	**221-500/000-053**	50 (10)

Accessories; item-specific

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white



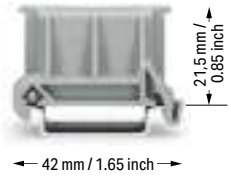
white	**210-833**	1



Strain relief plate; for mounting carrier (221 or 222 Series); snaps on to mounting carrier; 4 mm thick

Color	Item No.	Pack. Unit
orange	**222-505**	50 (10)

❶ Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type “intrinsic safety Ex i” must be observed.



Angled DIN-rail adapter; in combination with mounting carrier (221-500 or 222-500) for DIN-35 rail mounting; 18.5 mm wide

Color	Item No.	Pack. Unit
gray	**222-510**	50 (10)

13

Mounting Carrier; for Single Connectors
221 Series
Installation


Inserting a connector into the mounting carrier.


Removing a connector from the mounting carrier.


Inserting a conductor.


Use a cable tie to secure the conductors to the strain relief plate.


Labeling the mounting carrier.


Testing a connector mounted on the carrier via test slot.


The strain relief plate can be removed.


Horizontal screw mounting


Vertical screw mounting


Horizontal mounting via snap-in foot


Vertical mounting via snap-in foot


Connecting a light to the mains.

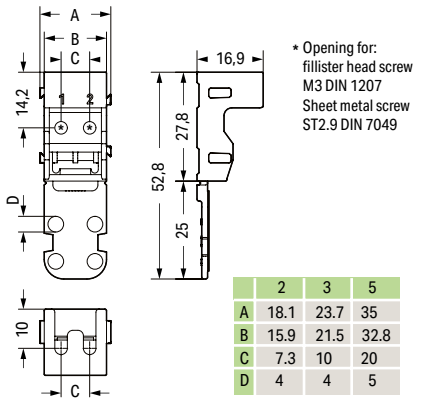
Mounting Carrier; for Single Connectors
221 Series





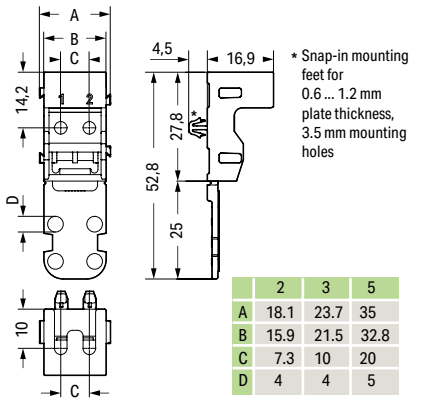


Dimensions in mm



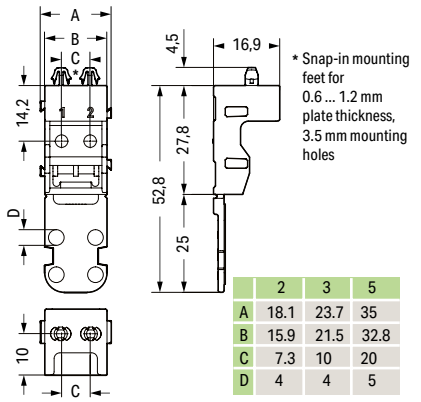
	2	3	5
A	18.1	23.7	35
B	15.9	21.5	32.8
C	7.3	10	20
D	4	4	5

Dimensions in mm



	2	3	5
A	18.1	23.7	35
B	15.9	21.5	32.8
C	7.3	10	20
D	4	4	5

Dimensions in mm



	2	3	5
A	18.1	23.7	35
B	15.9	21.5	32.8
C	7.3	10	20
D	4	4	5

Mounting carrier; for 2-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 x 52.8

Color	Item No.	Pack. Unit
○ white	221-502	50 (10)
● black	221-502/000-004	50 (10)

Mounting carrier; for 3-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 x 52.8

Color	Item No.	Pack. Unit
○ white	221-503	50 (10)
● black	221-503/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 x 52.8

Color	Item No.	Pack. Unit
○ white	221-505	50 (10)
● black	221-505/000-004	50 (10)

Mounting carrier; for 2-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 (+ 4.5 snap-in mounting foot) x 52.8

○ white	221-512	50 (10)
● black	221-512/000-004	50 (10)

Mounting carrier; for 3-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 (+ 4.5 snap-in mounting foot) x 52.8

○ white	221-513	50 (10)
● black	221-513/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 (+ 4.5 snap-in mounting foot) x 52.8

○ white	221-515	50 (10)
● black	221-515/000-004	50 (10)

Mounting carrier; for 2-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18.1 x 52.8 (+ 4.5 snap-in mounting foot) x 16.9

○ white	221-522	50 (10)
● black	221-522/000-004	50 (10)

Mounting carrier; for 3-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18.1 x 52.8 (+ 4.5 snap-in mounting foot) x 16.9

○ white	221-523	50 (10)
● black	221-523/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18.1 x 52.8 (+ 4.5 snap-in mounting foot) x 16.9

○ white	221-525	50 (10)
● black	221-525/000-004	50 (10)

More information on dimensions is available upon request.

Accessories; item-specific

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white



white	210-833	1

13

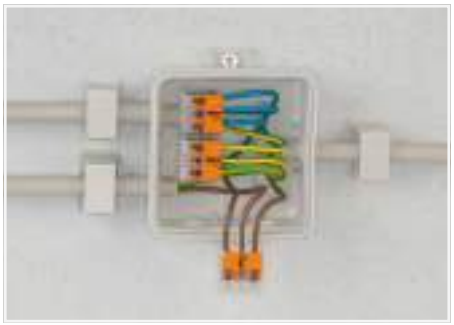
CAGE CLAMP®

COMPACT Splicing Connectors for All Conductor Types
221 Series
Description and Installation


Strip conductor to 12 … 14 mm (0.47 … 0.55 inch).


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.


Then, lower the lever to close the clamp.


Wiring fine-stranded conductors in a junction box.


Custom low-voltage lighting system




Wiring fine-stranded conductors in a junction box for in-floor heating.


Lighting distribution in ceiling canopy


Pendant light connection in suspended ceilings

CAGE CLAMP® terminates the following copper conductors:
solid “s” | stranded “st” | fine-stranded “f-st”, also with tinned single strands | fine-stranded, tip-bonded

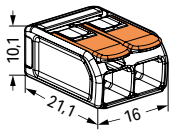
CAGE CLAMP®

COMPACT Splicing Connector for All Conductor Types and Mounting Carrier
6 mm²; 221 Series

Technical Data	
0.5 … 6 mm²	20 … 10 AWG
450 V / 4 kV / 2 ❶	600 V, 30 A
I_N 41 A	600 V, 20 A
12 … 14 mm / 0.47 … 0.55 inch	



Dimensions in mm



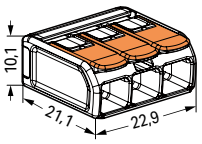
COMPACT splicing connector; for all conductor types; 2-conductor; with levers; transparent housing; continuous operating temperature (max.): 105 °C; surrounding air temperature: max 85 °C (T85)

	Item No.	Pack. Unit
	221-612	500 (50)

Technical Data	
0.5 … 6 mm²	20 … 10 AWG
450 V / 4 kV / 2 ❶	600 V, 30 A
I_N 41 A	600 V, 20 A
12 … 14 mm / 0.47 … 0.55 inch	



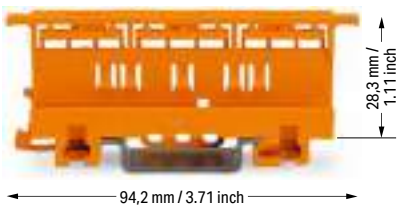
Dimensions in mm



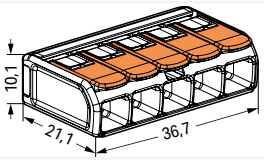
COMPACT splicing connector; for all conductor types; 3-conductor; with levers; transparent housing; continuous operating temperature (max.): 105 °C; surrounding air temperature: max 85 °C (T85)

	Item No.	Pack. Unit
	221-613	300 (30)





Dimensions in mm



COMPACT splicing connector; for all conductor types; 5-conductor; with levers; transparent housing; continuous operating temperature (max.): 105 °C; surrounding air temperature: max 85 °C (T85)

	Item No.	Pack. Unit
	221-615	150 (15)

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (6 mm²); 19.3 mm wide

Color	Item No.	Pack. Unit
orange	221-510	50 (10)
blue	221-510/000-006 ❷	50 (10)
dark gray/yellow	221-510/000-053	50 (10)

Accessories; item-specific

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white



white	210-833	1

❶ 450 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 15)

❷ Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type “intrinsic safety Ex i” must be observed.

Approvals and corresponding ratings, visit www.wago.com



Compact, lever-operated splicing connectors:
Connect up to five stripped conductors from 0.5 to 6 mm² (20 … 10 AWG) – without tools!

How these work:
Pull up one of the orange operating levers to open the clamping unit. Then insert the conductor and push the lever back down, flush with the connector housing.

Safety:
The lever’s specially designed rest position reliably prevents accidental unclamping of a connected conductor. Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

13

COMPACT Splicing Connectors for All Conductor Types and Mounting Carrier for Ex Splicing Connectors; for Ex eb Applications; 221 Series

Description and Installation



Strip conductor to 11 mm (0.43 inch).



Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.



Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



Removing a conductor.



Mounting type (440 V)
A spacer integrated in the adapter can be seen between two connectors.



Mounting type (440 V)
Vertical mounting on DIN-35 rail



Mounting type (275 V)
A spacer integrated in the adapter **cannot** be seen between two connectors; the connector housings are close together.



Mounting type (440 V)
Horizontal screw mounting on a flat surface



Mounting type (440 V)
Mounting the carrier via non-conductive screws.



Mounting type (275 V)
Mounting the carrier using conductive screws.

CAGE CLAMP® terminates the following copper conductors:
solid "s" stranded "st" fine-stranded "f-st", also with tinned single strands fine-stranded, tip-bonded



Easily test inserted connectors in the carrier – however they are mounted.



Wiring example in an Ex e junction box
Labeling is performed via marking strips (210-334) and pen or continuous labels (210-834), which is printed via Smart Printer (258-5000).



Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type “intrinsic safety Ex i” must be observed.

CAGE CLAMP®

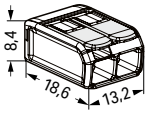
COMPACT Splicing Connector for All Conductor Types and Mounting Carrier; for Ex eb Applications

4 mm²; 221 Series

Technical Data	
IEC / EN 60079-7	UL 60079-7
IECEx Ex eb IIC Gb	Cl. I, Zn. 1, AEx eb IIC CNR Ex eb IIC U
0.2 … 4 mm² "s+str"	24 … 12 AWG "s+st"
0.14 … 4 mm² "f-st"	24 … 12 AWG "f-st"
440 V (275 V) ❶	440 V (275 V), 20 A ❶
I_N 24.5 A	
Operating temperature: –55 … +105 °C	
11 mm / 0.43 inch	

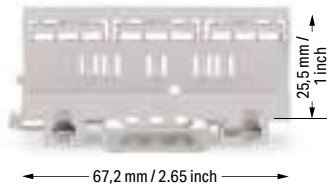


Dimensions in mm



COMPACT splicing connector; for all conductor types; for Ex eb applications; 2-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

	Item No.	Pack. Unit
	221-482 ❷	1000 (100)



Mounting carrier; for 2-, 3- and 5-wire Ex splicing connectors (4 mm²); 17.5 mm wide

Color	Item No.	Pack. Unit
light gray	221-501	50 (10)
blue	221-500/000-006 ❸	50 (10)

Item-Specific Accessories

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white

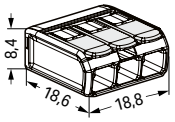


white	210-833	1

Technical Data	
IEC / EN 60079-7	UL 60079-7
IECEx Ex eb IIC Gb	Cl. I, Zn. 1, AEx eb IIC CNR Ex eb IIC U
0.2 … 4 mm² "s+str"	24 … 12 AWG "s+st"
0.14 … 4 mm² "f-st"	24 … 12 AWG "f-st"
440 V (275 V) ❶	440 V (275 V), 20 A ❶
I_N 32 A	
Operating temperature: –55 … +105 °C	
11 mm / 0.43 inch	



Dimensions in mm

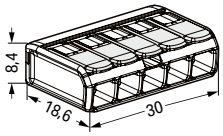


COMPACT splicing connector; for all conductor types; for Ex eb applications; 3-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

	Item No.	Pack. Unit
	221-483 ❷	500 (50)



Dimensions in mm



COMPACT splicing connector; for all conductor types; for Ex eb applications; 5-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

	Item No.	Pack. Unit
	221-485 ❷	250 (25)

❶ The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type.
The mounting types for both 440 V and 275 V are shown on the "Description and Installation" page. If a mounting type for 275 V is used, this is the permissible working voltage.

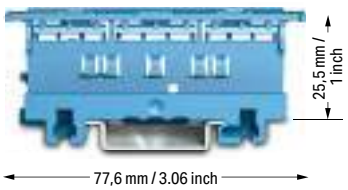
❷ Only approved in conjunction with a mounting carrier (221-501). Other carriers are possible, see certificate (UL).
The connectors must be installed in an enclosure meeting the requirements of a recognized protection type per EN 60079-0, Section 1 or EN 60079-31.
When installing the connectors in an enclosure of protection type "eb" (increased safety) per EN 60079-7, the clearances and creepage distances of Table 2 for this standard must be observed (for the use of accessories see point 1).
The connectors can be used both in Group II and Group I, as the standard requirements are identical in this case.
The use of these components requires a new assessment by a notified certification agency.

❸ Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.

Approvals and corresponding ratings, visit www.wago.com

Your benefits at a glance:

- New design possibilities for the manufacturers of junction boxes, luminaires and electronic devices for Ex eb areas
- Approval also possible with custom mounting solutions
- Easy to use: Pull the lever up, insert a conductor and push the lever back down – done.
- Easy-to-use design adds value for installers
- Time- and cost-saving spring pressure connection technology
- Vibration-proof and maintenance-free connection
- 100% touch-proof protection
- Connectors can be secured in position via mounting carriers according to standards



Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.

13

CAGE CLAMP®

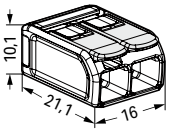
COMPACT Splicing Connector for All Conductor Types and Mounting Carrier; for Ex eb Applications

6 mm²; 221 Series

Technical Data	
IEC / EN 60079-7	UL 60079-7
IECEx Ex eb IIC Gb	Cl. I, Zn. 1, AEx eb IIC CNR Ex eb IIC U
0.5 … 6 mm²	20 … 10 AWG
440 V (275 V) ❶	440 V (275 V), 20 A ❶
I_N 37 A	
Operating temperature: –55 … +105 °C	
12 … 14 mm / 0.47 … 0.55 inch	

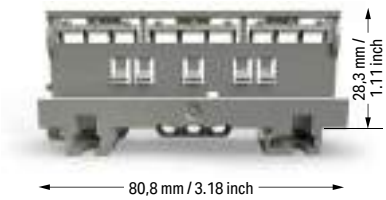


Dimensions in mm



COMPACT splicing connector; for all conductor types; for Ex eb applications; 2-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

	Item No.	Pack. Unit
	221-682 ❷	500 (50)



Mounting carrier; for 2-, 3- and 5-wire Ex splicing connectors (6 mm²); 19.3 mm wide

Color	Item No.	Pack. Unit
light gray	221-511	50 (10)
blue	221-510/000-006 ❸	50 (10)

Item-Specific Accessories

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white

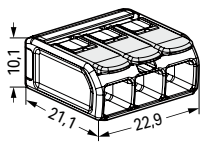


white	210-833	1

Technical Data	
IEC / EN 60079-7	UL 60079-7
IECEx Ex eb IIC Gb	Cl. I, Zn. 1, AEx eb IIC CNR Ex eb IIC U
0.5 … 6 mm²	20 … 10 AWG
440 V (275 V) ❶	440 V (275 V), 20 A ❶
I_N 37 A	
Operating temperature: –55 … +105 °C	
12 … 14 mm / 0.47 … 0.55 inch	



Dimensions in mm

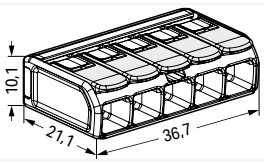


COMPACT splicing connector; for all conductor types; for Ex eb applications; 3-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

	Item No.	Pack. Unit
	221-683 ❷	300 (30)



Dimensions in mm



COMPACT splicing connector; for all conductor types; for Ex eb applications; 5-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

	Item No.	Pack. Unit
	221-685 ❷	150 (15)

❶ The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type.
The mounting types for both 440 V and 275 V are shown on the "Description and Installation" page. If a mounting type for 275 V is used, this is the permissible working voltage.

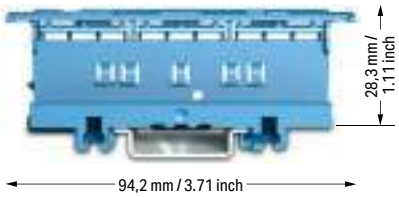
❷ Only approved in conjunction with a mounting carrier (221-511). Other carriers are possible, see certificate (UL).
The connectors must be installed in an enclosure meeting the requirements of a recognized protection type per EN 60079-0, Section 1 or EN 60079-31.
When installing the connectors in an enclosure of protection type "eb" (increased safety) per EN 60079-7, the clearances and creepage distances of Table 2 for this standard must be observed (for the use of accessories see point 1).
The connectors can be used both in Group II and Group I, as the standard requirements are identical in this case.
The use of these components requires a new assessment by a notified certification agency.

❸ Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.

Approvals and corresponding ratings, visit www.wago.com

Your benefits at a glance:

- New design possibilities for the manufacturers of junction boxes, luminaires and electronic devices for Ex eb areas
- Approval also possible with custom mounting solutions
- Easy to use: Pull the lever up, insert a conductor and push the lever back down – done.
- Easy-to-use design adds value for installers
- Time- and cost-saving spring pressure connection technology
- Vibration-proof and maintenance-free connection
- 100% touch-proof protection
- Connectors can be secured in position via mounting carriers according to standards



Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.

13

Jumpers With and Without Locking Function
Installation



Extending the N and PE (ground) distribution via jumper



Insert the jumper without a locking function into open clamping units.



Insert the jumper with a locking function into closed clamping units.

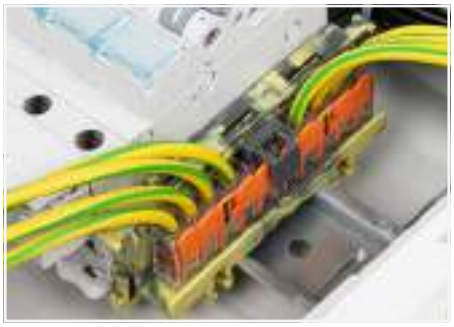


Without locking function:
The jumper without a locking function is plugged into the splicing connectors.



With locking function:
The jumper with a locking function is plugged into the splicing connectors.





The lockable jumper is plugged into the splicing connectors.



Remove the locking mechanism for intentional jumper removal.



Remove the jumper from open clamping units.

Jumper With and Without Locking Function
221 Series

Technical Data
400 V
I_N 41 A



Jumper; with locking function		
	Item No.	Pack. Unit
dark gray	221-941	50
blue	221-941/000-006	50

Technical Data
400 V
I_N 41 A



Jumper; without locking function		
	Item No.	Pack. Unit
dark gray	221-942	50
blue	221-942/000-006	50

Gelboxes; for Splicing Connectors
207 Series
Installation


Open the Gelbox at the side latches.


Place the wired connector in the Gelbox.


Close the Gelbox.


Close latch securely and press down in the center.




Re-accessible:
Open the Gelbox, remove the gel, open the connector and rewire with new components.


For low voltage applications > 50 V, use the Gelbox in a junction box.


Connecting a bollard light


Opened Gelbox with connector

13

Gelbox; for Splicing Connectors
207 Series

Technical Data
Housing material: Polypropylene
Gel material: Polyurethane
Voltage range: see connector voltage
Rated current: see connector current
Rated surge voltage: 2.5 kV
Insulation resistance: 5 MΩ
Surrounding air temperature (operation): −55 … 85 °C
Surrounding air temperature (storage): 0 … 40 °C
Physical properties: IPX8
Suitable for indefinite storage because the gel is free of hazardous substance according to CLP
Disposal: Household waste (residual waste)
Skin contact: After skin contact, clean with water; no special cleaning agent required



Gelbox; for conductors; branch; with gel; 221, 2273 Series; without splicing connectors; size 1

Color	Item No.	Pack. Unit
gray	207-1331	48 (4)



Gelbox; for conductors; branch; with gel; 221, 2273 Series; without splicing connectors; size 2

Color	Item No.	Pack. Unit
gray	207-1332	48 (4)



Gelbox; for conductors; branch; with gel; 221, 2273 Series; without splicing connectors; size 3

Color	Item No.	Pack. Unit
gray	207-1333	36 (3)



Gelbox; for conductors; branch; with gel; 221 Series, max. 6 mm² connectors; without splicing connectors; size 1

Color	Item No.	Pack. Unit
gray	207-1431	48 (4)



Gelbox; for conductors; branch; with gel; 221 Series, max. 6 mm² connectors; without splicing connectors; size 2

Color	Item No.	Pack. Unit
gray	207-1432	36 (3)



Gelbox; for conductors; branch; with gel; 221 Series, max. 6 mm² connectors; without splicing connectors; size 3

Color	Item No.	Pack. Unit
gray	207-1433	24 (2)

Permitted Combinations of Connectors and Gelbox:

Item No.	221-412	221-413	221-415	221-612	221-613	221-615	2273-202	2273-203	2273-204	2273-208
207-1331	1 x	1 x	-				2 x	-	1 x	1 x
207-1332	2 x	-	1 x				3 x	2 x	-	1 x
207-1333	3 x	2 x	-				4 x	-	2 x	2 x
207-1431				1 x	1 x	-				
207-1432				2 x	-	1 x				
207-1433				3 x	2 x	-				

Note: With other combinations, the high degree of protection cannot be guaranteed because the gel displacement is too limited or the Gel Boxes can no longer be closed.

Gelboxes; for Splicing Connectors
207 Series
Packaging Instructions

Note on Packaging Unit (PU) and Subpackaging Unit (SPU):
If you order a full PU, you will receive our eco-friendly, sustainable cardboard blisters packed in a shelf-ready box.
If you order a quantity smaller than a full PU, you will receive the eco-friendly, sustainable cardboard blisters without a shelf-ready box.


Lift the flap and pull the cover perforation forward.


Press in the perforation on the sides.


Tear off the cover from the perforation.


As a counter display: Bend the rear flap at the fold, straighten it and fix it in the cardboard cut-out


If the flap is not required, tear off from the perforation.


Self-service shelving system with Euro-slot hang tabs for product display

Junction Boxes; for 221 Series Splicing Connectors (4 mm²)
207 Series
Installation



The junction box is designed for surface screw mounting on the wall/ceiling. The cover can be snapped on and off without screws. The connectors are easily mounted by snapping them in, and the marking strips are mounted by simply pushing them in.



Snap the connector into the holder.



Release the connector from the holder.



Inserting a conductor



Snap the marking strips into the holder.



Insert the cable into the strain relief.
The snap-in strain reliefs are designed for cable diameters from 4 mm to 11 mm.



Break the cable entry lid out of the cover.



Snap on the junction box cover.



Open the junction box cover.

Junction Box; for 221 Series Splicing Connectors (4 mm²)
207 Series

Technical Data
Dimensions (width x height x depth): 225 x 46 x 145 mm
Protection type: IP20
Current supply: 18 A (max.)
Operating voltage: 450 V (max.)
DEKRA test report per EN and BS 60670-22
Designed for up to 60 connection points



Junction box; for 221 Series splicing connectors – 4 mm² (221-41x, not included in delivery)		
Color	Item No.	Pack. Unit
◯ white	207-4301	1

Accessories; 207 Series		
Accessory set; consists of 6 double-deck strain reliefs and marking strips		
	207-9301	1

CAGE CLAMP®

Inline Splicing Connectors
221 Series
Installation



Push up the lever to open the clamping unit and insert the conductor.



Push the lever back down.

Your Benefits:
- Inline connection of solid, stranded and fine-stranded conductors from 0.2 to 4 mm²
- Slim design needs minimum space in tight areas
- Tool-free connection and disconnection thanks to convenient lever technology
- Use a mounting carrier for fixed and multi-pole wiring





Perfect for test setups



Simple extension of lines



Lighting connection in suspended ceilings



Multi-pole, fixed lighting fixture wiring

CAGE CLAMP® terminates the following copper conductors:
solid “s” stranded “st” fine-stranded “f-st”, also with tinned single strands fine-stranded, tip-bonded

CAGE CLAMP®

Inline Splicing Connector
221 Series

Technical Data	
0.2 … 4 mm² “s”	20 … 14 AWG “s”
0.2 … 2.5 mm² “st”	18 … 14 AWG “st”
0.2 … 4 mm² “f-st”	18 … 14 AWG “f-st”
450 V / 4 kV / 2 ❶	600 V, 20 A
I_N 32 A	
11 mm / 0.43 inch	

Technical Data	
0.2 … 4 mm² “s”	20 … 12 AWG “s”
0.2 … 2.5 mm² “st”	18 … 12 AWG “st”
0.34 … 4 mm² “f-st”	18 … 12 AWG “f-st”
450 V / 4 kV / 2 ❶	600 V, 20 A
I_N 32 A	
11 mm / 0.43 inch	

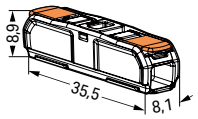
❶ 450 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com

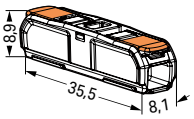




Dimensions in mm



Dimensions in mm



Inline splicing connector with levers; transparent housing; transparent cover		
	Item No.	Pack. Unit
	221-2411	600 (60)

Inline splicing connector with levers; transparent housing; white cover		
	Item No.	Pack. Unit
	221-2401	600 (60)

13

Mounting Carrier; for Inline Splicing Connectors
Installation



Place the inline splicing connector on the carrier in front of the mounting position.



Push the connector to the center position until it snaps into place.



Conductor wiring can also be performed in fixed position.



Various combinations of 1- to 5-connector mounting carriers are possible via side-by-side latching mechanism.



3-pole mounting carrier with strain relief



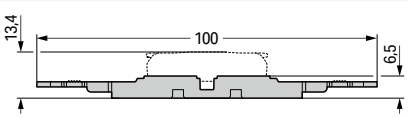
Mounting carrier without strain relief – snapped onto DIN-rail

Mounting Carrier; for Inline Splicing Connectors
221 Series

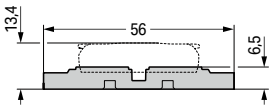




Dimensions in mm



Dimensions in mm



Mounting carrier with strain relief; for inline splicing connector with levers; for screw mounting; gray

	Item No.	Pack. Unit
1x	221-2501	25 (5)
2x	221-2502	25 (5)
3x	221-2503	25 (5)
4x	221-2504	25 (5)
5x	221-2505	25 (5)

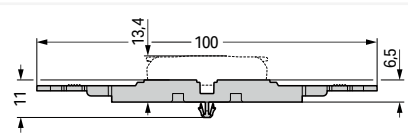
Mounting carrier; for inline splicing connector with levers; for screw mounting; gray

	Item No.	Pack. Unit
1x	221-2521	25 (5)
2x	221-2522	25 (5)
3x	221-2523	25 (5)
4x	221-2524	25 (5)
5x	221-2525	25 (5)

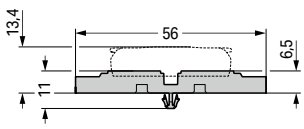




Dimensions in mm



Dimensions in mm



Mounting carrier with strain relief; for inline splicing connector with levers; with snap-in mounting foot; gray

	Item No.	Pack. Unit
1x	221-2511	25 (5)
2x	221-2512	25 (5)
3x	221-2513	25 (5)
4x	221-2514	25 (5)
5x	221-2515	25 (5)

Mounting carrier; for inline splicing connector with levers; with snap-in mounting foot; gray

	Item No.	Pack. Unit
1x	221-2531	25 (5)
2x	221-2532	25 (5)
3x	221-2533	25 (5)
4x	221-2534	25 (5)
5x	221-2535	25 (5)

Accessories; 221 Series

Appropriate marking system: Marking strips

Mounting foot; snaps onto terminal blocks with snap-in mounting foot; for DIN-35 rail; 6.4 mm wide



gray 209-120 25

Mounting foot with screw; can be screwed on terminal blocks with mounting flange; for DIN-35 rail; 6.4 mm wide



gray 209-123 25

Mounting screw; for mounting foot (209-120)



209-119 500 (50)

Mounting foot; snaps onto terminal blocks with snap-in mounting foot; for DIN-15 rail; 6.4 mm wide



gray 209-1115 25

Accessories; 221 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Mounting foot; can be screwed on terminal blocks with mounting flange; for DIN-15 rail; 6.4 mm wide



gray 209-1116 25

Marking strips; on reel; 5 mm wide; plain; self-adhesive; white



white 210-834 100

13

Gelboxes; for 221 Series Inline Splicing Connectors
207 Series
Installation



Open the Gelbox at the side latches.



Place the wired connector in the Gelbox.



Close the Gelbox.



Close latch securely.





Re-accessible:
Open the Gelbox, remove the gel, open the connector and rewire with new components.



For low voltage applications > 50 V, use the Gelbox in a junction box.



Connecting a path light



Opened Gelbox with connector

Gelbox; for 221 Series Inline Splicing Connectors
207 Series

Technical Data
Housing material: Polypropylene
Gel material: Polyurethane
Voltage range: see connector voltage
Rated current: see connector current
Rated surge voltage: 2.5 kV
Insulation resistance: 5 MΩ
Ambient temperature (operation): −55 … 85 °C
Ambient temperature (storage): 0 … 40 °C
Physical properties: IPX8
Gel is suitable for indefinite storage, free of hazardous substances according to CLP
Disposal: Household waste (residual waste)
After skin contact: Clean with water, no special cleaning agents necessary



Gelbox; inline connection; for conductors; with gel; 221 Series, max. 4 mm² connectors; without splicing connectors; size 1

Color	Item No.	Pack. Unit
gray	207-1372	28 (4)



Gelbox; inline connection; for conductors; with gel; 221 Series, max. 4 mm² connectors; without splicing connectors; size 2

Color	Item No.	Pack. Unit
gray	207-1373	28 (4)



Gelbox; inline connection; for conductors; with gel; 221 Series, max. 4 mm² connectors; without splicing connectors; size 3

Color	Item No.	Pack. Unit
gray	207-1375	14 (2)

Permitted Combinations of Connectors and Gelbox:

Item Number	221-2411	221-2401
207-1372	2 x	2 x
207-1373	3 x	3 x
207-1375	5 x	5 x

Note: With other combinations, the high degree of protection cannot be guaranteed because the gel displacement is too limited or the Gelboxes can no longer be closed.

CAGE CLAMP®

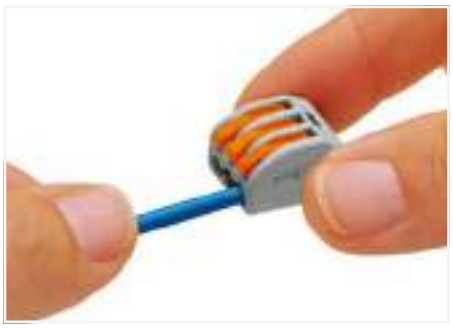
CLASSIC Splicing Connectors for All Conductor Types
222 Series
Description and Installation



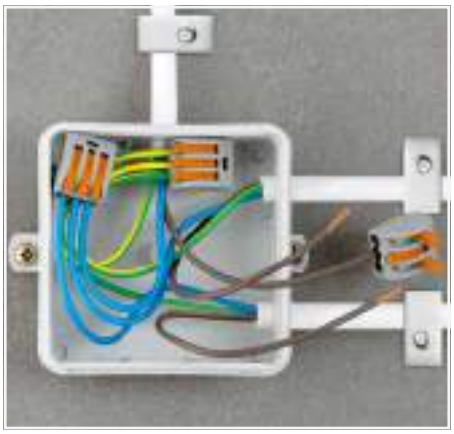
Strip conductor to 9 … 10 mm (0.35 … 0.39 inch).



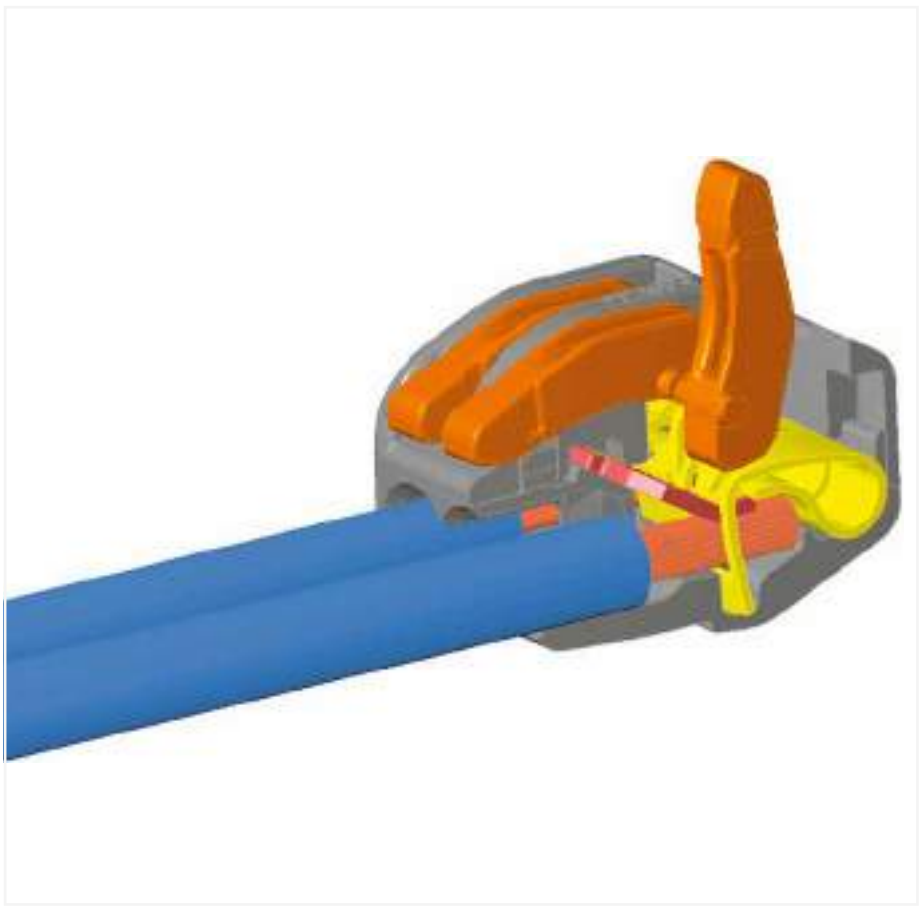
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.



Wiring fine-stranded conductors in a junction box.





Testing the wired connectors.

13

CAGE CLAMP® terminates the following copper conductors:

solid “s”	stranded “st”	fine-stranded “f-st”, also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor’s nominal cross section.

CAGE CLAMP®

CLASSIC Splicing Connector for All Conductor Types
2.5 mm²; 222 Series

Technical Data	
0.08 … 2.5 mm² "s+str"	28 … 12 AWG "s+st"
0.08 … 4 mm² "f-st"	28 … 12 AWG "f-st"
400 V / 4 kV / 2 ❶	600 V, 20 A
I_N 32 A	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 2.5 mm² "s+str"	28 … 12 AWG "s+st"
0.08 … 4 mm² "f-st"	28 … 12 AWG "f-st"
400 V / 4 kV / 2 ❶	600 V, 20 A
I_N 32 A	
9 … 10 mm / 0.35 … 0.39 inch	

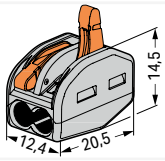
❶ In grounded power lines
400 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 15)

Approvals and corresponding ratings, visit www.wago.com





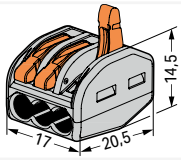
Dimensions in mm



Splicing connector for all conductor types; 2-wire connector; with levers; continuous operating temperature (max.): 85 °C; surrounding air temperature (max.): 40 °C

Color	Item No.	Pack. Unit
gray	222-412	500 (50)

Dimensions in mm

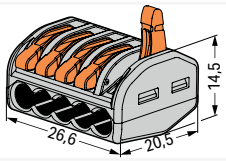


Splicing connector for all conductor types; 3-wire connector; with levers; continuous operating temperature (max.): 85 °C; surrounding air temperature (max.): 40 °C

Color	Item No.	Pack. Unit
gray	222-413	500 (50)



Dimensions in mm



Splicing connector for all conductor types; 5-wire connector; with levers; continuous operating temperature (max.): 85 °C; surrounding air temperature (max.): 40 °C

Color	Item No.	Pack. Unit
gray	222-415	400 (40)



Compact, lever-operated splicing connectors:
Tool-free connection of up to five stripped, fine-stranded conductors from 0.08 … 4 mm² (28 … 12 AWG), as well as solid or stranded conductors up to 2.5 mm² (12 AWG).

How these work:
Pull up one of the orange operating levers to open the clamping unit so that the lever engages and keeps the clamp in its opened position. Then insert the conductor and push the lever back down, flush with the connector housing.

Safety:
The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor. Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

13

Mounting Carrier
222 Series
Installation



Horizontal mounting on DIN-35 rail using an angled DIN-rail adapter



Horizontal mounting with strain relief plate on DIN-35 rail using an angled DIN-rail adapter



Horizontal screw mounting with strain relief plate on a flat surface



Vertical mounting with strain relief plate on DIN-35 rail;
Marking clamping units via marking strips.



Strain relief via cable ties on the mounting carrier (transverse to the connectors' wiring direction);
Molded marking clamping units



Mounting carrier with strain relief plate mounted vertically on a plate;
Round cable secured via strain relief lug.



Snapping the lateral connector safety lock onto the mounting carrier.



Securing a strain relief plate to the mounting carrier.



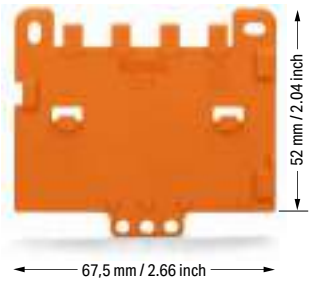
Snapping the angled DIN-rail adapter onto the mounting carrier.

Mounting Carrier
222 Series



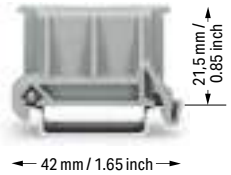
Mounting carrier; for 2-, 3- and 5-wire splicing connectors; 22 mm wide

Color	Item No.	Pack. Unit
orange	222-500	50 (10)



Strain relief plate; for mounting carrier (221 or 222 Series); snaps on to mounting carrier; 4 mm thick

Color	Item No.	Pack. Unit
orange	222-505	50 (10)



Angled DIN-rail adapter; in combination with mounting carrier (221-500 or 222-500) for DIN-35 rail mounting; 18.5 mm wide

Color	Item No.	Pack. Unit
gray	222-510	50 (10)

Accessories; item-specific

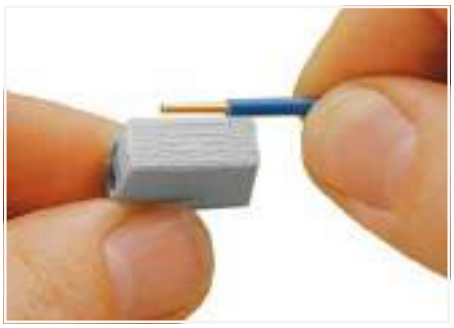
Marking strips; on reel; 5 mm wide; plain; self-adhesive; white



white	210-834	1

PUSH WIRE® CAGE CLAMP®

Lighting Connectors; 224 Series
Lighting Side and Installation Side
Description and Installation



Strip conductor to 9 … 11 mm (0.35 … 0.43 inch).



To connect: Press button fully, insert stripped conductor into square entry and release.



To remove: Press button and withdraw conductor.

Lighting side

CAGE CLAMP® terminates the following copper conductors:



solid



stranded



fine-stranded, also with tinned single strands



fine-stranded, tinned (up to 1.5 mm² / 16 AWG)

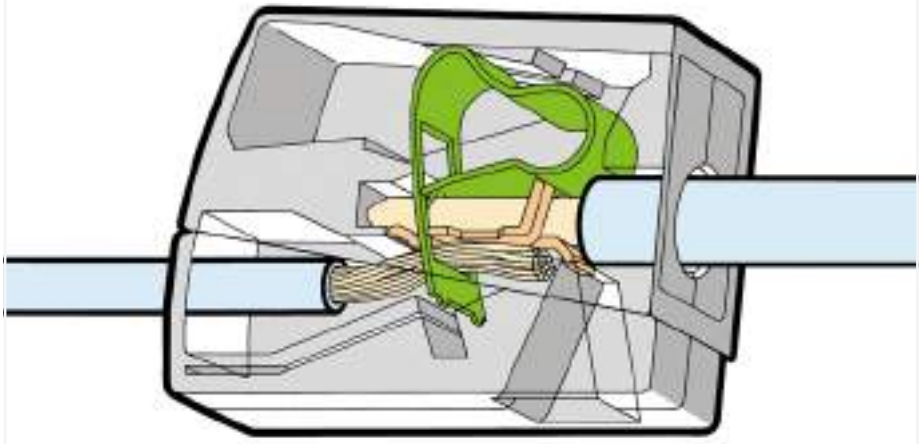


fine-stranded, tip bonded



fine-stranded with ferrule (up to 1.5 mm² / 16 AWG)

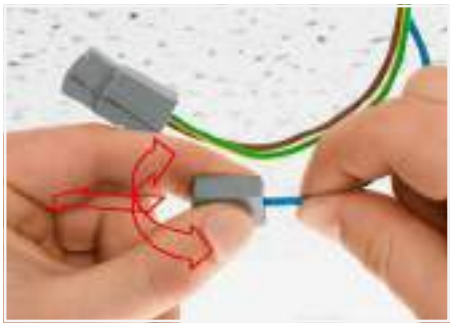
Installation side



Lighting side



To connect: Insert stripped solid conductor into circular entry and push until it hits the backstop.



To remove: Hold conductor to be removed and twist alternately left and right while slightly pulling the connector.



Testing via separate test ports.

Installation side



PUSH WIRE® terminates the following copper conductors:
solid “s“

For aluminum conductors, see notes in Section 15.

PUSH WIRE® CAGE CLAMP®

Lighting Connector and Service Connector
2.5 mm², 224 Series

Technical Data	
Installation side	
1 … 2.5 mm² "s"	14 … 12 AWG
Lighting side	
0.5 … 2.5 mm² "s+f-st"	20 … 16 AWG
400 V / 4 kV / 2	300 V, 20 A
I_N 24 A	300 V, 20 A
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
Installation side	
1 … 2.5 mm² "s"	16 … 14 AWG
Lighting side	
0.5 … 2.5 mm² "s+f-st"	20 … 16 AWG
400 V / 4 kV / 2	300 V, 20 A
I_N 24 A	300 V, 20 A
9 … 11 mm / 0.35 … 0.43 inch	

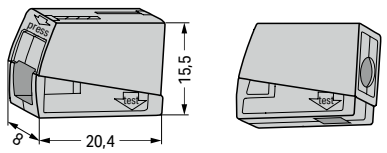
Technical Data	
0.5 … 2.5 mm² "s+f-st"	20 … 16 AWG
400 V / 4 kV / 2	300 V, 20 A
I_N 24 A	
9 … 11 mm / 0.35 … 0.43 inch	



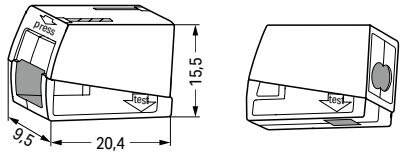




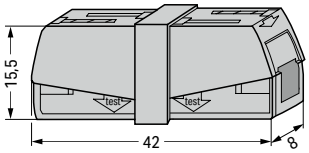
Dimensions in mm



Dimensions in mm



Dimensions in mm



Lighting connector; Standard version; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C		
Color	Item No.	Pack. Unit
gray	224-101	1000 (100)

2-wire lighting connector; Standard version; continuous operating temperature (max.): 105 °C; surrounding air temperature (max.): 60 °C		
Color	Item No.	Pack. Unit
white	224-112	1000 (100)

Service connector		
Color	Item No.	Pack. Unit
gray	224-201	50

Lighting connector; Version for increased continuous operating temperature: 120 °C; surrounding air temperature (max.): 75 °C		
black	224-104	100

2-wire lighting connector; Version for increased continuous operating temperature: 120 °C; surrounding air temperature (max.): 75 °C		
black	224-114	100

Accessories; 224 Series

Syringe; contains 20 ml "Alu-Plus" Contact Paste		
	249-130	20 (5)



13

Splicing Connector Set
887 Series



Splicing connector set; Vario-T-BOXX; 222, 224, 243, 2273 Series

Item No.	Pack. Unit
887-910	1

Contains:
CLASSIC splicing connector; 0.08 … 4 mm²; gray
- 50 x 3-conductor **222-413**
- 40 x 5-conductor **222-415**

Llighting connector; 1 … 2.5 mm² “s“; gray
- 100 x **224-101**

MICRO PUSH WIRE® connector for junction boxes; Ø 0.6 … 0.8 mm
- 100 x 4-conductor (dark gray) **243-204**
- 100 x 4-conductor (red) **243-804**
- 50 x 8-conductor(dark gray) **243-208**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 100 x 2-conductor (white) **2273-202**
- 100 x 3-conductor (orange) **2273-203**
- 100 x 5-conductor (yellow) **2273-205**
- 50 x 8-conductor (light gray) **2273-208**

Mounting carrier; for 6 connectors; orange
- 10 x **243-113**



Splicing connector set; Vario-T-BOXX; 221, 224, 243, 773, 2273 Series

Item No.	Pack. Unit
887-912	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 50 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

2-conductor lighting connector; 1 … 2.5 mm² “s“; white
- 100 x **224-112**

MICRO PUSH WIRE® connector for junction boxes; Ø 0.6 … 0.8 mm
- 100 x 4-conductor (dark gray) **243-204**
- 100 x 4-conductor (red) **243-804**
- 50 x 8-conductor(dark gray) **243-208**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 100 x 3-conductor (orange) **2273-203**
- 100 x 5-conductor (yellow) **2273-205**
- 50 x 8-conductor (light gray) **2273-208**

PUSH WIRE® connector for junction boxes; 1.5 … 4 mm² “s“; red
- 100 x 4-conductor **773-604**

Mounting carrier; for 6 connectors; orange
- 10 x **243-113**



Splicing connector set; L-BOXX® 102; 221, 224, 243, 773, 2273 Series

Item No.	Pack. Unit
887-925	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 50 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

2-conductor lighting connector; 1 … 2.5 mm² “s“; white
- 100 x **224-112**

MICRO PUSH WIRE® connector for junction boxes; Ø 0.6 … 0.8 mm
- 100 x 4-conductor (dark gray) **243-204**
- 50 x 8-conductor(dark gray) **243-208**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 100 x 3-conductor (orange) **2273-203**
- 100 x 5-conductor (yellow) **2273-205**
- 50 x 8-conductor (light gray) **2273-208**

PUSH WIRE® connector for junction boxes; 2.5 … 6 mm² “s“; red
- 100 x 4-conductor **773-173**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 4 x **221-500**



Splicing connector set; L-BOXX® 102; 221 Series – 4 mm² and 6 mm²

Item No.	Pack. Unit
887-928	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 250 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 30 x 3-conductor **221-613**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 10 x **221-500**



Splicing connector set; L-BOXX® 102; 221 Series – 4 mm² and 6 mm²

Item No.	Pack. Unit
887-931	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 250 x 3-conductor **221-413**
- 50 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 50 x 2-conductor **221-612**
- 30 x 3-conductor **221-613**
- 5 x 5-conductor **221-615**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 2 x **221-500**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (6 mm²); orange
- 2 x **221-510**



Splicing connector set; L-BOXX® 102; 221 Series

Item No.	Pack. Unit
887-934	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 200 x 3-conductor **221-413**
- 50 x 5-conductor **221-415**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 5 x **221-500**

Inline splicing connector with lever; 0.2 … 4 mm²; transparent
- 60 x **221-2411**

Mounting carrier with strain relief; gray
- 2 x 2-way **221-2502**
- 2 x 3-way **221-2503**

Splicing Connector Set
887 Series



Splicing connector set; L-BOXX® 102; 221, 2273 Series		
	Item No.	Pack. Unit
	887-926	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 100 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 100 x 2-conductor (white) **2273-202**
- 100 x 3-conductor (orange) **2273-203**
- 100 x 4-conductor (red) **2273-204**
- 100 x 5-conductor (yellow) **2273-205**
- 50 x 8-conductor (light gray) **2273-208**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 2 x **221-500**

Mounting carrier; for single- and double-row connectors; orange
- 2 x **2273-500**



Splicing connector set; L-BOXX® 102; 221 Series		
	Item No.	Pack. Unit
	887-927	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 250 x 3-conductor **221-413**
- 50 x 5-conductor **221-415**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 10 x **221-500**



Splicing connector set; L-BOXX® 102; 221, 2273, 207 Series		
	Item No.	Pack. Unit
	887-932	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 50 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0,5 … 2,5 mm²
- 100 x 2-conductor (white) **2273-202**
- 100 x 3-conductor (orange) **2273-203**
- 100 x 5-conductor (yellow) **2273-205**

Inline splicing connector with lever; 0.2 … 4 mm²; transparent
- 60 x **221-2411**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²)
- 2 x orange **221-500**
- 1 x blue **221-500/000-006**
- 1 x dark gray-yellow **221-500/000-053**
-

Jumper; 2-way
- 5 x dark gray **221-941**
- 5 x blue **221-942/000-006**

Gelbox; 221, 2x73 Series; max. 4 mm²; gray
- 1 x Size 1 **207-1331**
- 1 x Size 2 **207-1332**
- 1 x Size 3 **207-1333**

Mounting carrier; for single- and double-row connectors; orange
- 2 x **2273-500**

Mounting carrier with strain relief; gray
- 2 x 3-way **221-2503**



Splicing connector set; L-BOXX MICRO; 221, 2273 Series		
	Item No.	Pack. Unit
	887-802	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 10 x 2-conductor **221-412**
- 20 x 3-conductor **221-413**
- 8 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 50 x 3-conductor (orange) **2273-203**
- 20 x 5-conductor (yellow) **2273-205**
- 12 x 8-conductor (light gray) **2273-208**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 1 x **221-500**

Mounting carrier; for single- and double-row connectors; orange
- 1 x **2273-500**



Splicing connector set; L-BOXX® MICRO; 221, 2273 Series		
	Item No.	Pack. Unit
	887-803	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 20 x 2-conductor **221-412**
- 35 x 3-conductor **221-413**
- 8 x 5-conductor **221-415**

Inline splicing connector with lever; 0.2 … 4 mm²; transparent
- 30 x **221-2411**

Splicing Connector Set
887 Series



Splicing connector set; L-BOXX® MICRO; 221 Series		
	Item No.	Pack. Unit
	887-804	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 15 x 2-conductor **221-412**
- 20 x 3-conductor **221-413**
- 8 x 5-conductor **221-415**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 1 x **221-500**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 5 x 2-conductor **221-612**
- 5 x 3-conductor **221-613**

Inline splicing connector with lever; 0.2 … 4 mm²; transparent
- 15 x **221-2411**

Mounting carrier with strain relief; gray
- 1 x 3-way **221-2503**



Splicing connector set; L-BOXX® MICRO; 221, 2273, 207 Series		
	Item No.	Pack. Unit
	887-805	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 10 x 2-conductor **221-412**
- 20 x 3-conductor **221-413**
- 8 x 5-conductor **221-415**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 1 x **221-500**

COMPACT splicing connector; 0,5 … 2,5 mm²
- 50 x 3-conductor (orange) **2273-203**
- 20 x 5-conductor (yellow) **2273-205**
- 12 x 8-conductor (light gray) **2273-208**

Mounting carrier; for single- and double-row connectors; orange
- 1 x **2273-500**



Splicing connector set; L-BOXX® Mini; 221 Series		
	Item No.	Pack. Unit
	887-850	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 100 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 2 x **221-500**

Inline splicing connector with lever; 10.2 … 4 mm²; transparent
- 30 x **221-2411**

Mounting carrier with strain relief; gray
- 1 x 2-way **221-2502**
- 1 x 3-way **221-2503**



Splicing connector set; L-BOXX® Mini; 221, 2273, 207 Series		
	Item No.	Pack. Unit
	887-853	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 50 x 3-conductor **221-413**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 30 x 3-conductor **221-613**

COMPACT splicing connector; 0,5 … 2,5 mm²
- 100 x 3-conductor (orange) **2273-203**
- 100 x 4-conductor (red) **2273-205**

Gelbox; 221, 2x73 Series; max. 4 mm²; gray
- 1 x Size 1 **207-1331**
- 1 x Size 2 **207-1332**
- 1 x Size 3 **207-1333**

Gelbox; 221 Series; max. 6 mm²; gray
- 1 x Size 1 **207-1431**



Splicing connector set; L-BOXX® Mini; 221, 2273 Series		
	Item No.	Pack. Unit
	887-955	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 75 x 2-conductor **221-412**
- 50 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 100 x 3-conductor (orange) **2273-203**
- 75 x 5-conductor (yellow) **2273-205**
- 25 x 8-conductor (light gray) **2273-208**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 1 x **221-500**

Mounting carrier; for single- and double-row connectors; orange
- 1 x **2273-500**



Splicing connector set; L-BOXX® Mini; 221 Series – 4 mm² and 6 mm²		
	Item No.	Pack. Unit
	887-957	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 75 x 2-conductor **221-412**
- 50 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 40 x 2-conductor **221-612**
- 30 x 3-conductor **221-613**
- 15 x 5-conductor **221-615**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 1 x **221-500**

Splicing Connector Set
887 Series



Splicing connector set; L-BOXX® Mini; 221 Series		
	Item No.	Pack. Unit
	887-851	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 50 x 2-conductor **221-412**
- 100 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 25 x 3-conductor **221-613**

Inline splicing connector with lever; 0.2 … 4 mm²; transparent
- 30 x **221-2411**



Splicing connector set; L-BOXX® Mini; 221 Series		
	Item No.	Pack. Unit
	887-952	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 100 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); orange
- 4 x **221-500**



Splicing connector set; L-BOXX® Mini; 2273 Series		
	Item No.	Pack. Unit
	887-953	1

Contains:
COMPACT splicing connector; 0.5 … 2.5 mm²
- 100 x 2-conductor (white) **2273-202**
- 100 x 3-conductor (orange) **2273-203**
- 100 x 4-conductor (red) **2273-204**
- 75 x 5-conductor (yellow) **2273-205**
- 25 x 8-conductor (light gray) **2273-208**

Mounting carrier; for single- and double-row connectors; orange
- 4 x **2273-500**



Splicing connector set; L-BOXX® Mini; 221 Series – 4 mm² and 6 mm²		
	Item No.	Pack. Unit
	887-959	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 100 x 2-conductor **221-412**
- 100 x 3-conductor **221-413**
- 25 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 30 x 3-conductor **221-613**



Splicing connector set; L-BOXX® Mini; 221, 2273, 224 Series		
	Item No.	Pack. Unit
	887-960	1

Contains:
COMPACT splicing connector; 0.2 … 4 mm²; transparent
- 20 x 2-conductor **221-412**
- 15 x 3-conductor **221-413**
- 10 x 5-conductor **221-415**

COMPACT splicing connector; 0.5 … 6 mm²; transparent
- 5 x 3-conductor **221-613**

2-conductor lighting connector; 1 … 2.5 mm² “s”; white
- 15 x **224-112**

COMPACT splicing connector; 0.5 … 2.5 mm²
- 40 x 2-conductor (white) **2273-202**
- 30 x 3-conductor (orange) **2273-203**
- 25 x 4-conductor (red) **2273-204**
- 20 x 5-conductor (yellow) **2273-205**
- 15 x 8-conductor (light gray) **2273-208**

PUSH WIRE®

Luminaire Disconnect Connector (U.S. Version)
12 AWG; 873 Series

Technical Data	
2-conductor plug ❶	1-conductor socket ❷
18 … 12 AWG “s”	18 AWG “s”
16 … 12 AWG “st”	600 V, 6 A
11 … 13 mm / 0.43 … 0.51 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	

Technical Data	
2-conductor plug ❶	1-conductor socket ❷
18 … 12 AWG “s”	18 AWG “s”
16 … 12 AWG “st”	600 V, 6 A
11 … 13 mm / 0.43 … 0.51 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	

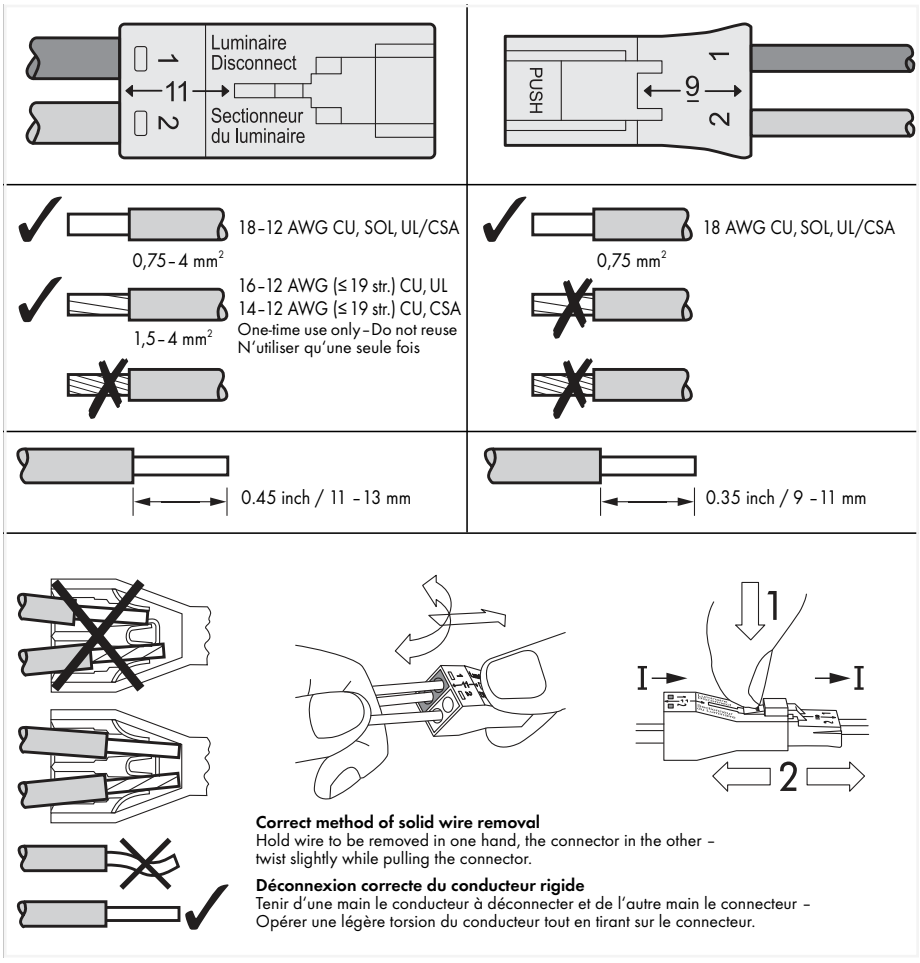
❶ 2-conductor plug

❷ 1-conductor socket

Approvals and corresponding ratings, visit www.wago.com







Correct method of solid wire removal
Hold wire to be removed in one hand, the connector in the other - twist slightly while pulling the connector.

Déconnexion correcte du conducteur rigide
Tenir d'une main le conducteur à déconnecter et de l'autre main le connecteur - Opérer une légère torsion du conducteur tout en tirant sur le connecteur.

Touchproof connectors are required for ballast supply cables in the USA and Canada. When exchanging a ballast:
1. The touch-proof plug-in connection is disconnected´- first.
2. The ballast is replaced.
3. Network connection is restored by plugging the connection.

Reconnection streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock. The 873 Series is approved according to UL 2459 and CSA 22.2 for this type of application.

873 Series approvals per EN 60998 and EN 61984:

EN 60998
0.75 mm² (solid), 6 A for socket
1.5 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

EN 61984
0.75 mm² (solid), 6 A for socket
0.75 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

Luminaire Disconnect Connectors		
Pole No.	Item No.	Pack. Unit
2	873-902	400

Luminaire Disconnect Connectors		
Pole No.	Item No.	Pack. Unit
3	873-903	200

13

PUSH WIRE®

Luminaire Disconnect Connector (U.S. Version)
12 AWG; 873 Series

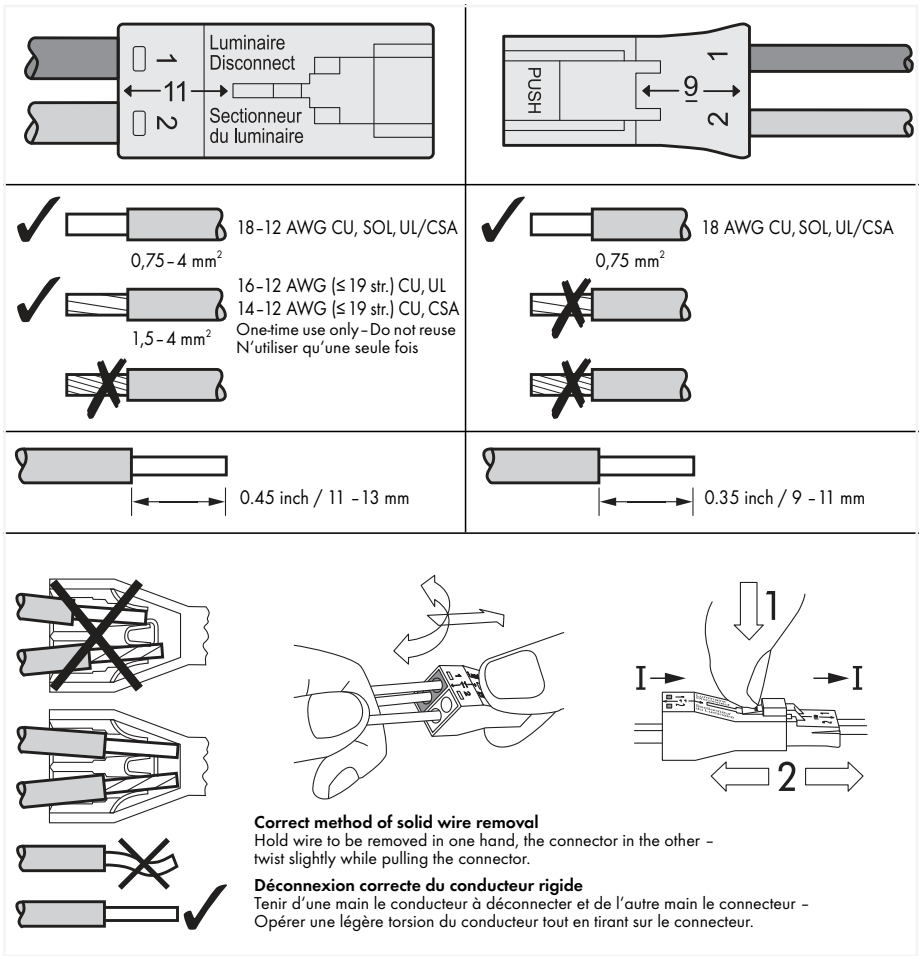
Technical Data	
2-conductor plug ❶	1-conductor socket ❷
18 … 12 AWG "s"	18 AWG "s"
16 … 12 AWG "st"	600 V, 6 A
11 … 13 mm / 0.43 … 0.51 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	

❶ 2-conductor plug

❷ 1-conductor socket

Approvals and corresponding ratings, visit www.wago.com





Correct method of solid wire removal
Hold wire to be removed in one hand, the connector in the other - twist slightly while pulling the connector.

Déconnexion correcte du conducteur rigide
Tenir d'une main le conducteur à déconnecter et de l'autre main le connecteur - Opérer une légère torsion du conducteur tout en tirant sur le connecteur.

Touchproof connectors are required for ballast supply cables in the USA and Canada. When exchanging a ballast:
1. The touch-proof plug-in connection is disconnected´- first.
2. The ballast is replaced.
3. Network connection is restored by plugging the connection.

Reconnection streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock. The 873 Series is approved according to UL 2459 and CSA 22.2 for this type of application.

873 Series approvals per EN 60998 and EN 61984:

EN 60998
0.75 mm² (solid), 6 A for socket
1.5 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

EN 61984
0.75 mm² (solid), 6 A for socket
0.75 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

Luminaire disconnect connector; with preceding ground contact		
Pole No.	Item No.	Pack. Unit
2	873-953	500

13



WAGO Accessories and WAGO Tools

WAGO Accessories and WAGO Tools

			Page
	Shield Clamping Saddles	790 Series	668
	Spring-Equipped Shield Clamping Saddles	790 Series	671
	Busbar Carriers	790 Series	673
	Marking Systems		684
	DIN-Rails, Collective Jumper Carriers and Rail-Mount Terminal Block Covers		700
	End Stops for DIN-35 and DIN-15 Rails		702
	Operating tools		708
	Cable Strippers		710
	Crimping Tools for Ferrules		714
	Cable Cutter		720
	Test and Measurement Devices		721
	“Alu-Plus” Contact Paste		724

Shield Connection System
790 Series
Installation



Carrier with grounding foot* (790-113),
45 mm long, busbar 90° to the rail

*for all shield clamping saddle sizes



Carrier with grounding foot* (790-114),
45 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes



Carrier with grounding foot* (790-115),
125 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes



Securing a spacer sleeve to a specialty slotted DIN-rail.



Securing an additional shield clamping saddle.





Tightening/removing a shield clamping saddle.

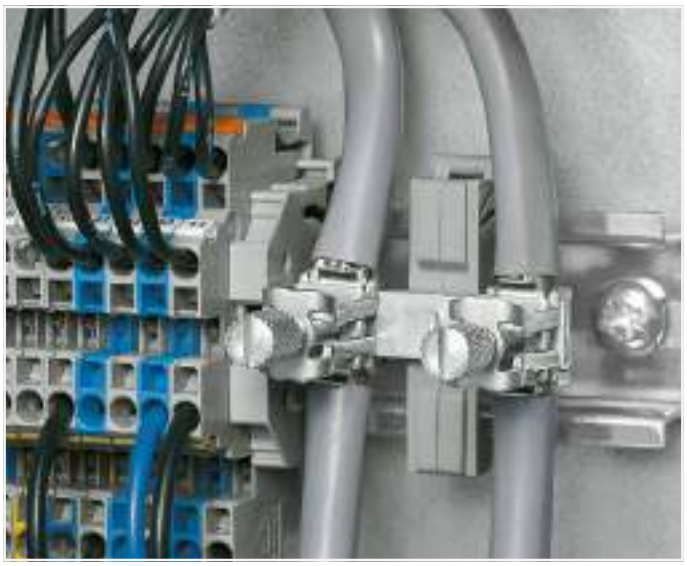


After connection, tighten the knurled screw to complete the installation.
Recommended tightening torque: 0.5 Nm



To remove the clamping saddle, unscrew until ratcheted mechanism is released, then slightly tip saddle and remove the clamping saddle.

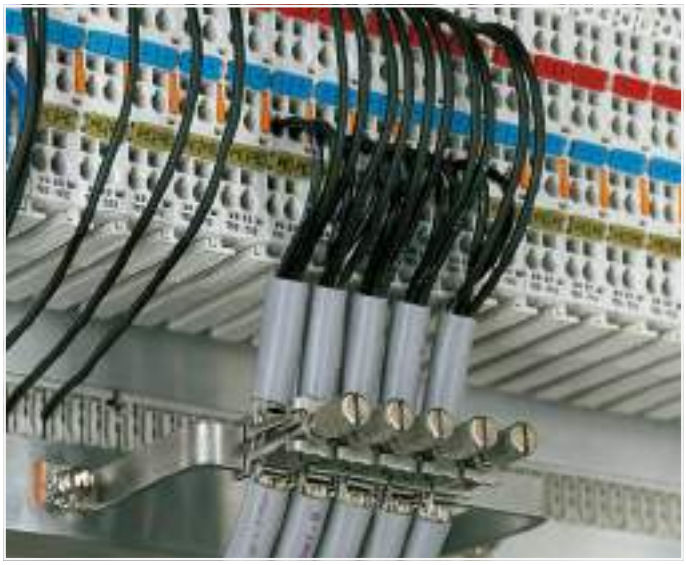
Shield Connection System
790 Series
Installation



Carrier with grounding foot – busbar parallel to the rail



Insulated mounting carriers for a common shield reference potential, independent of housing potential

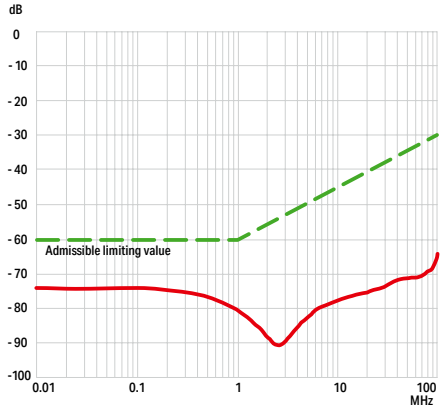


U-shaped (10 x 3) mm copper busbar



Snap shield clamping saddles into any metal plate (max. thickness: 3 mm).

Negative Shield Attenuation

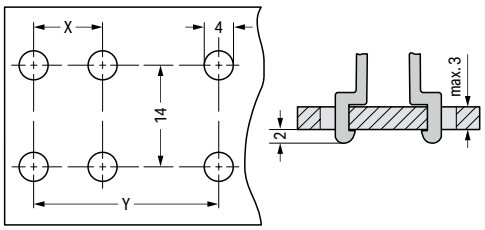


The shield connection system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable.

Hole Dimensions for Panel Mounting

Shield (screen) clamping saddle size

Distance	X
11 mm	9.5 mm
Distance	Y
19 mm	17.5 mm
27 mm	25.5 mm
43 mm	41.5 mm



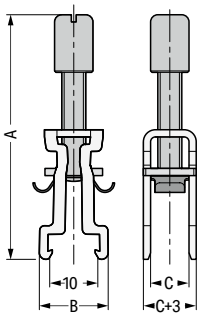
Additionally, the spring material is part of the clamping saddle, providing a good electrical connection (the system also acts as a partial strain relief). The spring element integrated in the shield clamping saddle compensates for deformation and settling that results from a connected shield.

Shield Clamping Saddles
790 Series

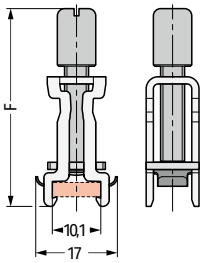




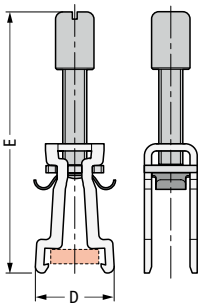
Installation position (delivery state)



Closed position



Removal position



Dimensions in mm

Item No.	A	B	C	D	E	F
790-108	51	15	8	16	55	42
790-116	53	15	16	16	57	45
790-124	78	15	24	16	83	58
790-140	97	15	40	16	100	73

Shield clamping saddle; 11 mm wide; Connectable shield diameter: 3 … 8 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-108	50 (10)

Shield clamping saddle; 19 mm wide; Connectable shield diameter: 7 … 16 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-116	50 (10)

Shield clamping saddle; 27 mm wide; Connectable shield diameter: 6 … 24 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-124	50 (10)

Accessories; for Shield Clamping Saddles

Carrier with grounding foot; Busbar parallel to the rail; 15 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108)
790-110 25



Carrier with grounding foot; Busbar parallel to the rail; 25 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108; 790-116) and shield clamps (791-111; 791-117)
790-112 25



Carrier with grounding foot; Busbar 90° to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series)
790-113 25



Carrier with grounding foot; Busbar parallel to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series) and shield clamps (791 Series)
790-114 25



Carrier with two grounding feet; Busbar parallel to the DIN-rail; 125 mm long; Copper (10 x 3) mm
790-115 25



DIN-rail; specialty slotted; 1000 mm long; tin-plated
790-145



Spacer sleeve; steel; for DIN-rail; specialty slotted; for M5-size screw;
790-144 200 (100)



Insulated mounting foot; for busbar with M4 x 8 mm screw
790-100 50 (25)



Insulated mounting foot; for busbar with (3.5 x 9) mm sheet metal screw
790-101 50 (25)



Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm
210-133 1



Busbar; tin-plated; 30 mm long; copper (10 x 3) mm
790-133 20



Busbar; tin-plated; 50 mm long; copper (10 x 3) mm
790-134 20



U-shaped busbar; Copper (10 x 3) mm; for 5 I/O; for 750 Series I/O Modules
790-190 25 (5)



U-shaped busbar; Copper (10 x 3) mm; for 8 I/O; for 750 Series I/O Modules
790-191 25



U-shaped busbar; Copper (10 x 3) mm; for 5 I/O; for 750 Series I/O Modules
790-192 25



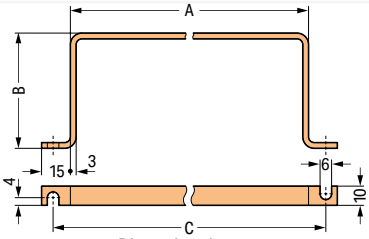
U-shaped busbar; Copper (10 x 3) mm; for 8 I/O; for 750 Series I/O Modules
790-193 25



14







Dimensions in mm

Item No.	A	B	C	Item No.	A	B	C
for I/O module series 750 (5 E/A)							
790-190	63	60	83	**790-192**	63	35	83
for I/O module series 750 (8 E/A)							
790-191	100	60	118	**790-193**	100	35	118

Shield clamping saddle; 43 mm wide; Connectable shield diameter: 22 … 40 mm
Note: Cannot be used for connecting ground conductors!

	Item No.	Pack. Unit
	790-140	50 (10)



Carrier with grounding foot* (790-114), 45 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes



Carrier with grounding foot* (790-115), 125 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes

Spring-Equipped Shield Clamping Saddles
790 Series
Installation



Shield clamping saddles are available in three different sizes for shield diameters ranging from 3 to 20 mm.



Application example



Compress the clamping saddle until fully engaged.



Mounting a clamping saddle on a specialty slotted DIN-rail (790-145).
When releasing the saddle, do not place your finger under the clamping spring!



Removing the shield clamping saddle.



Shield clamping saddle contacts shield conductor and specialty slotted DIN-rail (790-145).



Labeling using a marking strip.



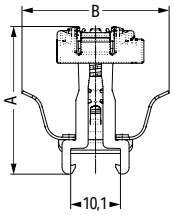
Labelling using WMB markers.

Spring-Equipped Shield Clamping Saddles
790 Series

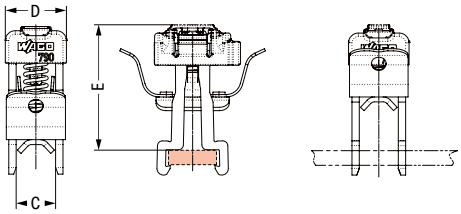




Delivery position



Mounting position



Dimensions in mm

Item No.	A	B	C	D	E*
790-208	30	29.9	8	12.4	25.8
790-216	34.6	28.3	16	21.8	30.2
790-220	45.6	28.3	24	30	41.2

*Height with WMB marker

Shield clamping saddle; 12.4 mm wide; Connectable shield diameter: 3 … 8 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-208	50

Shield clamping saddle; 21.8 mm wide; Connectable shield diameter: 6 … 16 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-216	25

Shield clamping saddle; 30 mm wide; Connectable shield diameter: 6 … 20 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-220	25

Accessories; for Shield Clamping Saddles

Carrier with grounding foot; Busbar parallel to the rail; 15 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108)

790-110 25



Carrier with grounding foot; Busbar parallel to the rail; 25 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108; 790-116) and shield clamps (791-111; 791-117)

790-112 25



Carrier with grounding foot; Busbar 90° to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series)

790-113 25



Carrier with grounding foot; Busbar parallel to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series) and shield clamps (791 Series)

790-114 25



Carrier with two grounding feet; Busbar parallel to the DIN-rail; 125 mm long; Copper (10 x 3) mm

790-115 25



DIN-rail; specialty slotted; 1000 mm long; tin-plated

790-145



Spacer sleeve; steel; for DIN-rail; specialty slotted; for M5-size screw;

790-144 200 (100)



Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

210-133 1



Busbar; tin-plated; 30 mm long; copper (10 x 3) mm

790-133 20



Busbar; tin-plated; 50 mm long; copper (10 x 3) mm

790-134 20



14

Shield Clamp and Shield Termination
791 and 709 Series

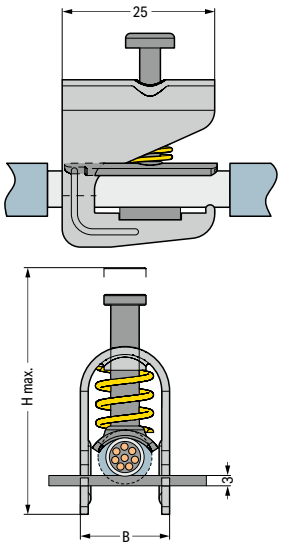






Insert the shield termination into the female plug using the operating tool.

Dimensions in mm





Fit the shield termination to the shield cable.

Shield clamp; Connectable shield diameter: 1.5 … 6.5 mm; Height (max.): 40 mm; 10 mm wide
Note: Cannot be used for connecting ground conductors!

	Item No.	Pack. Unit
	791-107	50

Shield clamp; Connectable shield diameter: 5 … 11 mm; Height (max.): 47 mm; 17 mm wide
Note: Cannot be used for connecting ground conductors!

	791-111	50

Shield clamp; Connectable shield diameter: 10 … 17 mm; Height (max.): 63 mm; 23 mm wide
Note: Cannot be used for connecting ground conductors!

	791-117	50

Shield clamp; Connectable shield diameter: 16 … 24 mm; Height (max.): 78 mm; 30 mm wide
Note: Cannot be used for connecting ground conductors!

	791-124	50

Shield termination; includes cable ties for 5 … 10 mm shield diameter; 60 mm long

	Item No.	Pack. Unit
	709-350	100 (25)

Shield termination; includes cable ties for 5 … 10 mm shield diameter; 150 mm long

	709-352	100 (25)



Secure both shield cable and shield termination to the strain relief plate using cable ties.



Shield termination connected to an X-COM® female plug

Busbar Carriers
790 Series



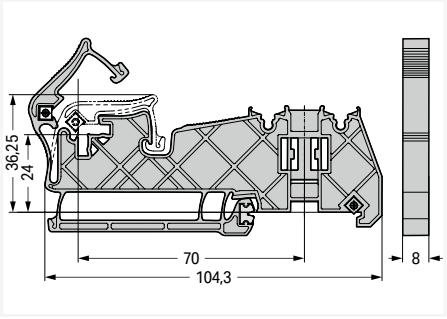
Dimensions in mm



Snapping the busbar carrier onto DIN-35 rail.



Vertical mounting position of the busbar



Busbar carrier; for (10 x 3) mm copper busbars; no contact to DIN-rail; insulated		
	Item No.	Pack. Unit
	790-400	20



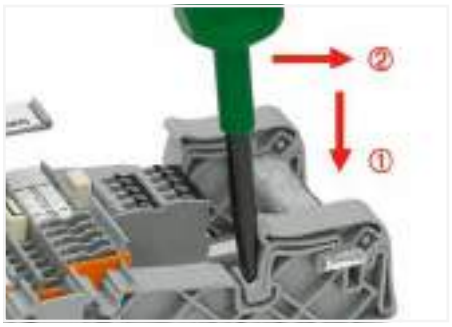
Place the busbar in the carrier holder.



Horizontal mounting position of the busbar



Snap the mounting bracket into position.



Release the mounting bracket by pushing the operating tool down ① and then forward ②.

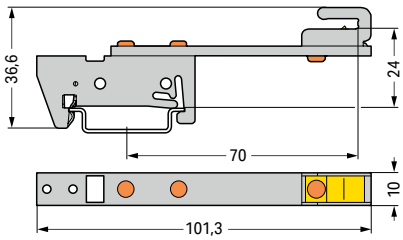
Busbar Carriers
790 Series







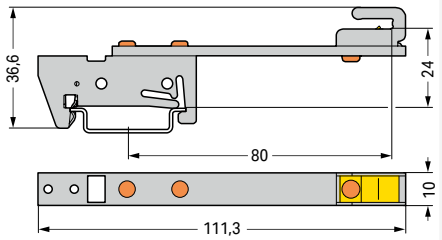
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; straight; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-300	10

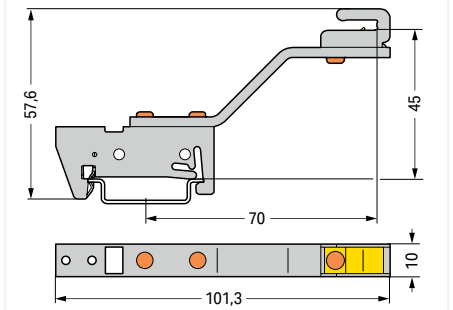
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; straight; 80 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-302	10

Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; angled; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-301	10



Remove the busbar carrier using an operating tool (type 3, 5.5 x 0.8 mm blade).



To remove the busbar, compress the spring using pliers.

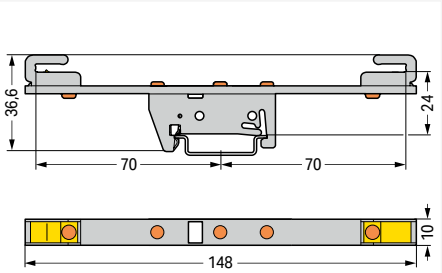


Place the busbar in the busbar carrier.

Busbar Carriers
790 Series



Dimensions in mm

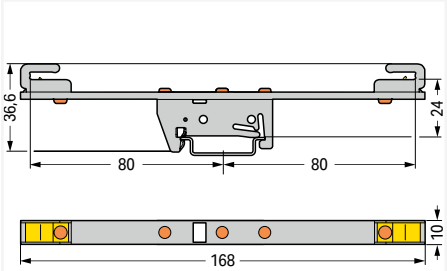


Busbar carrier; for (10 x 3) mm copper busbars; both sides; straight; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-310	10



Dimensions in mm

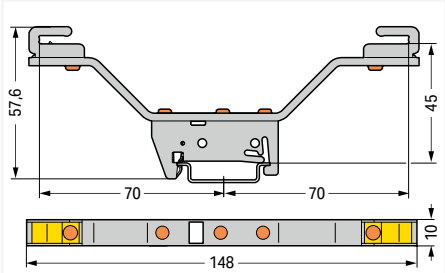


Busbar carrier; for (10 x 3) mm copper busbars; both sides; straight; 80 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-312	10



Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; angled; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-311	10



Application example

Busbar Carrier with a T-Connector (Flexible) and T-Connector
790 Series



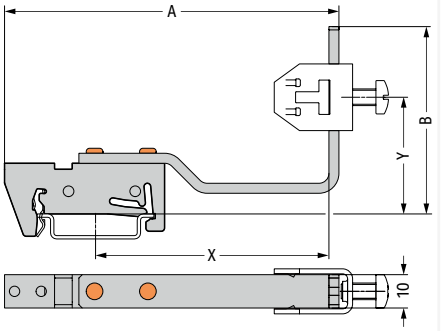




Horizontal mounting position of the busbar

Dimensions in mm

	A	B	X	Y
790-350/790-398	100	56	70	15 ... 52
790-352/790-398	100	99	70	15 ... 92
790-360/790-398	115	56	85	15 ... 52
790-362/790-398	115	99	85	15 ... 92



Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 70 mm between center of DIN-rail and busbar carrier; 56 mm high

Item No.	Pack. Unit
790-350/790-398	12

Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 70 mm between center of DIN-rail and busbar carrier; 99 mm high

Item No.	Pack. Unit
790-352/790-398	12

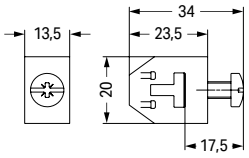
Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 85 mm between center of DIN-rail and busbar carrier; 56 mm high

Item No.	Pack. Unit
790-360/790-398	12

Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 85 mm between center of DIN-rail and busbar carrier; 99 mm high

Item No.	Pack. Unit
790-362/790-398	12

Dimensions in mm



T-connector; connects two (10 x 3) mm copper busbars

Item No.	Pack. Unit
790-398	



Vertical mounting position of the busbar



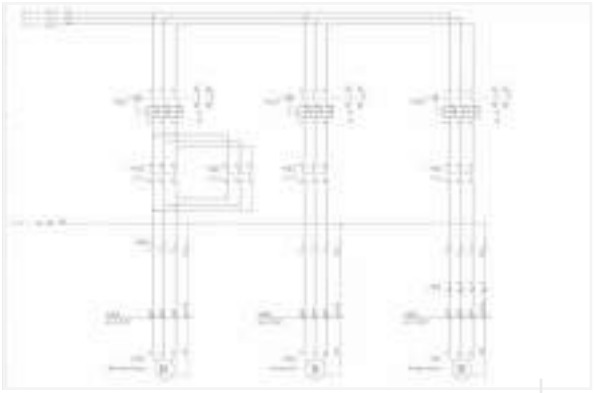
The height of the busbar can be adjusted.



Secure the busbar by tightening the screws at the required position.

Smart Data
Supports Workflow from Control Cabinet Planning to Installation

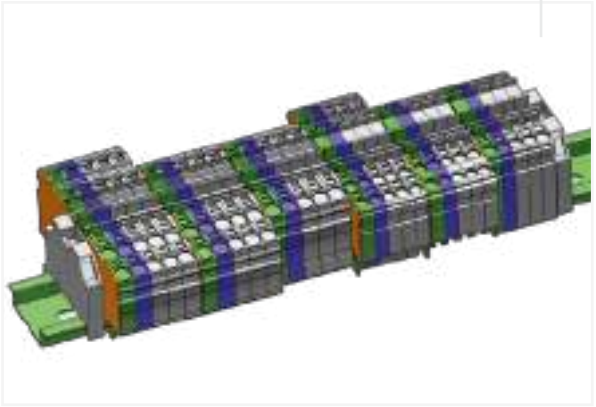
Electrical Planning
Directly import data from a CAE circuit diagram into the Smart Designer engineering software or output marking data on Smart Printer



Technical and Commercial Item Data
Classified by ETIM and eCl@ss – also in Advanced Format

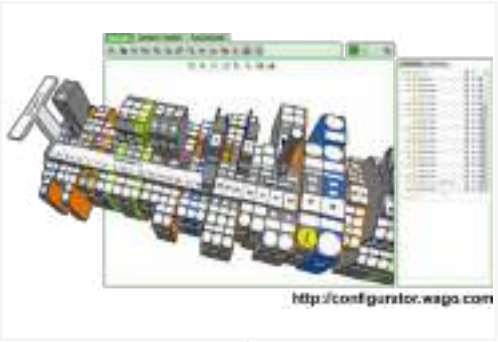


Mechanical Planning
CAD export into all standard CAD formats and in different granularities



14

Smart Designer
- Free online configuration and ordering software for all electrical interconnect and automation components
- No installation required
- Available worldwide – 24 hours a day
- Item data is always updated
- Auto-audit feature checks product compatibility via programed database
- Design in full 3-D





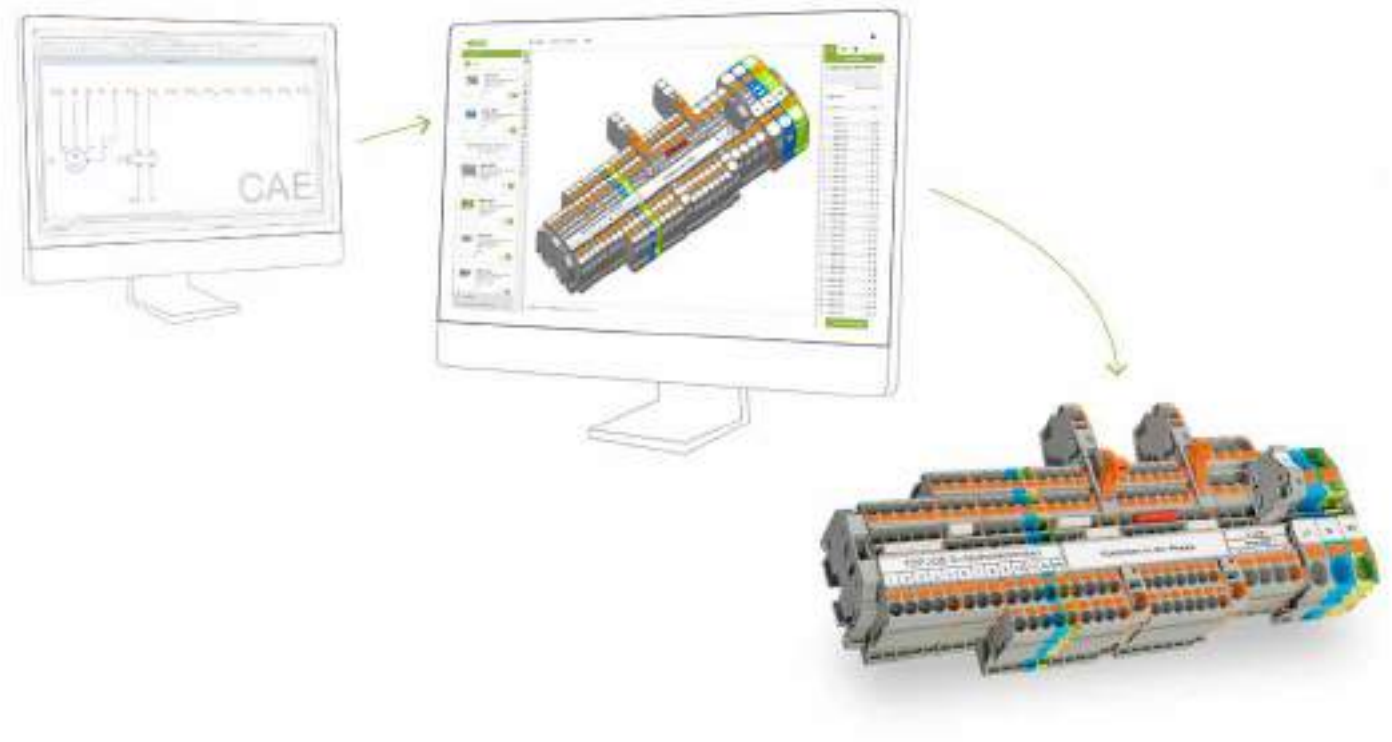
Smart Script
- XML-based software for all WAGO labeling materials
- Data import from CAE systems
- Font size check
- Material selection wizard



Configuration made easy – http://configurator.wago.com

Smart Printer

The Fastest Marking System



Smart Script



Smart Script
Import from CAE systems or create customized marking.

Smart Designer



Smart Designer
After designing, print labeling materials directly from the project via Smart Printer



Smart Printer
- Compact and easy-to-use
- Quickly print and install marking strips
- Cost-effective marking from beginning to end

Terminal Block Marking



Multi-line marking strips for clear, detailed control cabinet labels
- WMB Inline markers on a reel are suitable for various terminal block sizes – just one marker size for all standard applications
- Same profile across all WAGO Rail-Mount Terminal Blocks TOPJOB® S ensures quick labeling

Cable and Conductor Marking



Different versions available:
- Marking sleeves, self-laminating labels, conductor markers for thread-on mounting or shrink tubes
- Large variety of marking surface sizes

Device Marking



Broad selection of label types (e.g., printable fabric), push-button markers and type plates optimizes marking for devices and control cabinets
- Labels and markers are available in a variety of colors and sizes

14

Marking Systems
Description and Installation



Separating a strip from the WMB or WMB marker card.



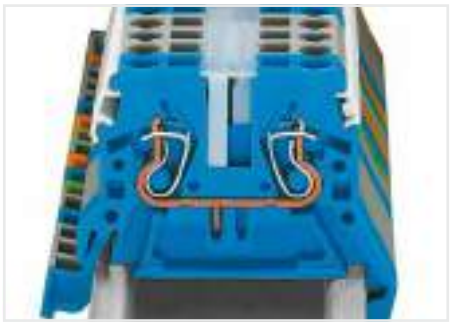
Stretching a WMB marker strip.



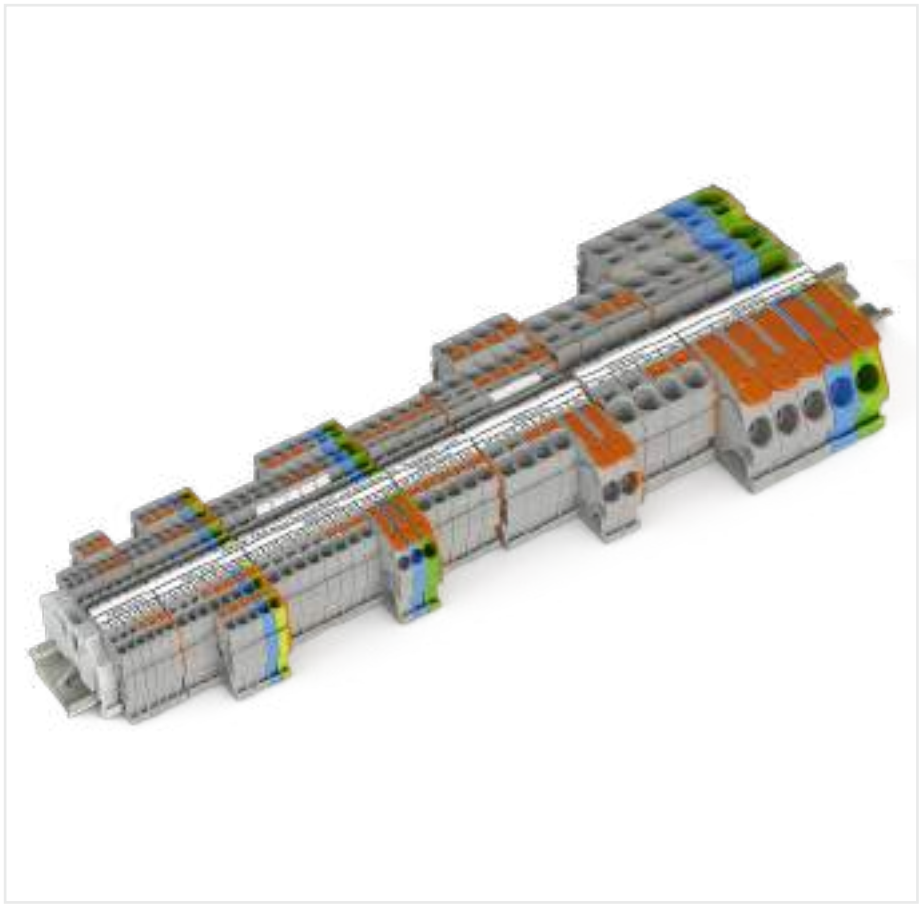
Separating an individual marker from the strip – for larger terminal blocks.



Marking via Mini-WSB Quick Marking System.



WMB markers in Mini-WSB marker slots
Translucent marking strip
Mini-WSB markers





Printing a marking strip (2009-110) via Smart Printer.



Snapping a marking strip into the marker slot.



Marking strip – multi-line printing



Snapping a marking strip into the marker slot.



Snapping a WMB marker strip into the marker slot of the double marker carrier.



WMB "decade" marking





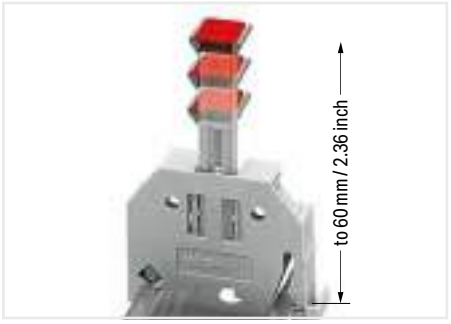
Group marker carriers for WAGO Rail-Mount Terminal Blocks TOPJOB® S – can be snapped into jumper slots.



Double- and triple-deck marker carriers can be retrofitted into the jumper contact slot of double- and triple-deck terminal blocks.



Height adjustable group marker carrier (2009-163) for marking strips (2009-110)



Height-adjustable group marker carrier



Additional group marking

Marking System

Terminal Block Width: 3.5 mm, 4 … 4.2 mm and from 5 mm



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm
5 … 17.5 mm	270, 280, 780, 869, 870, 880	281 … 285, 781 … 785, 2002, 2004, 2005, 2006, 2007, 2010, 2016, 2022

WMB marker card; plain; 10 strips with 10 markers/card					
Color	5 mm Item No.	5 … 5.2 mm Item No.	4 … 4.2 mm Item No.	3.5 mm Item No.	Pack. Unit
white	793-501	793-5501	793-4501	793-3501	5
yellow	793-501/000-002	793-5501/000-002	793-4501/000-002		5
red	793-501/000-005	793-5501/000-005	793-4501/000-005		5
blue	793-501/000-006	793-5501/000-006	793-4501/000-006		5
gray	793-501/000-007	793-5501/000-007	793-4501/000-007		5
orange	793-501/000-012	793-5501/000-012	793-4501/000-012		5
light green	793-501/000-017	793-5501/000-017	793-4501/000-017		5
green	793-501/000-023	793-5501/000-023	793-4501/000-023		5
violet	793-501/000-024	793-5501/000-024	793-4501/000-024		5



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel		
Color	3.5 mm Item No.	Pack. Unit
white	2009-113	1

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm		
Color	4 … 4.2 mm Item No.	Pack. Unit
white	2009-114	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	5 … 5.2 mm Item No.	Pack. Unit
white	2009-115	1



Use	
	Can be snapped onto the following terminal block series
	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2010, 2016, 2020, 2022

Marking strip; plain; 11 mm wide; 50 m reel		
Color	Item No.	Pack. Unit
white	2009-110	1

Mini-WSB Quick Marking System
Terminal Block Width: 5 mm



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
5 mm	264, 270, 869, 880, 769, 870, 218, 233 … 236, 243, 250, 252 … 257, 735 … 742, 745, 746, 804, 805, 806, 816, 831, 750, 753, 2002, 2003, 2022	745, 746, 2004, 2006, 2007, 2010, 2016

Mini-WSB marker card; plain; 10 strips with 10 markers/card		
Color	Item No.	Pack. Unit
white	248-501	5
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5



Mini-WSB marker card; with marking; not stretchable; horizontal marking; snap-on type		
Marking	Item No.	Pack. Unit
1, , 2, , 3, , 4, , 5, ; to 46, , 47, , 48, , 49, , 50, ; (each 1x)	264-900	5
U, , V, , W, , N, , PE, ; (10x)	264-901	5
L1, , L2, , L3, , N, , PE, ; (10x)	264-902	5
1, , 1, , 1, , 1, , 1, ; (10x)	264-903	5
2, , 2, , 2, , 2, , 2, ; (10x)	264-904	5
3, , 3, , 3, , 3, , 3, ; (10x)	264-905	5



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
5 mm	264, 270, 869, 880, 769, 870, 218, 233 … 236, 243, 250, 252 … 257, 735 … 742, 745, 746, 804, 805, 806, 816, 831, 750, 753, 2002, 2003, 2022	745, 746, 2004, 2005, 2006, 2007, 2010, 2016

Mini-WSB Inline; plain; 1,700 markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	Item No.	Pack. Unit
white	2009-145	1

Marking Card; Self-Adhesive Marking Strips



- Strip length: 182 mm

Marking strip; plain; as DIN A4 sheet		
	Item No.	Pack. Unit
◯ Strip height: 2.3 mm; 100 self-adhesive strips per card	210-331	100
◯ Strip height: 3 mm; 80 self-adhesive strips per card	210-332	100
◯ Strip height: 5 mm; 48 self-adhesive strips per card	210-334	100
◯ Strip height: 6 mm; 40 self-adhesive strips per card	210-333	100
◯ Strip height: 9 mm; 25 self-adhesive strips per card	210-335	100



- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (260 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 10 (120 x)	210-333/500-002	100
◯ 11 … 20 (120 x)	210-333/500-003	100
◯ 21 … 30 (120 x)	210-333/500-004	100
◯ 31 … 40 (120 x)	210-333/500-005	100
◯ 41 … 50 (120 x)	210-333/500-006	100
◯ 51 … 60 (120 x)	210-333/500-007	100
◯ 61 … 70 (120 x)	210-333/500-008	100
◯ 71 … 80 (120 x)	210-333/500-009	100
◯ 81 … 90 (120 x)	210-333/500-010	100
◯ 91 … 100 (120 x)	210-333/500-011	100
◯ 1 … 50 (20 x)	210-333/500-021	100
◯ L1 (1440 x)	210-333/500-074	100
◯ L2 (1440 x)	210-333/500-075	100
◯ L3 (1440 x)	210-333/500-076	100
◯ N (1440 x)	210-333/500-077	100
◯ PE (1440 x)	210-333/500-078	100
◯ PEN (1440 x)	210-333/500-079	100
◯ only grid spacing	210-333/500-001	100

Marking strip; for 4-conductor terminal strips (260 Series)		
◯ 1 … 10 (80 x)	210-333/800-002	100
◯ 11 … 20 (80 x)	210-333/800-003	100
◯ 21 … 30 (80 x)	210-333/800-004	100
◯ 31 … 40 (80 x)	210-333/800-005	100
◯ 41 … 50 (80 x)	210-333/800-006	100
◯ 51 … 60 (80 x)	210-333/800-007	100
◯ 61 … 70 (80 x)	210-333/800-008	100
◯ 71 … 80 (80 x)	210-333/800-009	100
◯ 81 … 90 (80 x)	210-333/800-010	100
◯ 91 … 100 (80 x)	210-333/800-011	100
◯ 1 … 40 (20 x)	210-333/800-209	100
◯ L1 (880 x)	210-333/800-074	100
◯ L2 (880 x)	210-333/800-075	100
◯ L3 (880 x)	210-333/800-076	100
◯ N (880 x)	210-333/800-077	100
◯ PE (880 x)	210-333/800-078	100
◯ PEN (880 x)	210-333/800-079	100
◯ only grid spacing	210-333/800-001	100

Marking Card; Self-Adhesive Marking Strips



- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (261 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 12 (80 x)	210-333/600-103	100
◯ 13 … 24 (80 x)	210-333/600-104	100
◯ 25 … 36 (80 x)	210-333/600-105	100
◯ 37 … 48 (80 x)	210-333/600-106	100
◯ 41 … 50 (80 x)	210-333/600-006	100
◯ 51 … 60 (80 x)	210-333/600-007	100
◯ 61 … 70 (80 x)	210-333/600-008	100
◯ 71 … 80 (80 x)	210-333/600-009	100
◯ 81 … 90 (80 x)	210-333/600-010	100
◯ 91 … 100 (80 x)	210-333/600-011	100
◯ 1 … 50 (20 x)	210-333/600-021	100
◯ L1 (1200 x)	210-333/600-074	100
◯ L2 (1200 x)	210-333/600-075	100
◯ L3 (1200 x)	210-333/600-076	100
◯ N (1200 x)	210-333/600-077	100
◯ PE (1200 x)	210-333/600-078	100
◯ PEN (1200 x)	210-333/600-079	100
◯ only grid spacing	210-333/600-001	100

Marking strip; for 4-conductor terminal strips (261 Series)		
◯ 1 … 16 (40 x)	210-333/1000-202	100
◯ 17 … 32 (40 x)	210-333/1000-204	100
◯ 33 … 48 (40 x)	210-333/1000-206	100
◯ 49 … 64 (40 x)	210-333/1000-110	100
◯ 65 … 80 (40 x)	210-333/1000-111	100
◯ 81 … 96 (40 x)	210-333/1000-112	100
◯ 97 … 112 (40 x)	210-333/1000-113	100
◯ 1 … 36 (20 x)	210-333/1000-208	100
◯ L1 (720 x)	210-333/1000-074	100
◯ L2 (720 x)	210-333/1000-075	100
◯ L3 (720 x)	210-333/1000-076	100
◯ N (720 x)	210-333/1000-077	100
◯ PE (720 x)	210-333/1000-078	100
◯ PEN (720 x)	210-333/1000-079	100
◯ only grid spacing	210-333/1000-001	100

Marking Card; Self-Adhesive Marking Strips



- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (262 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 20 (40 x)	210-333/700-020	100
◯ 21 … 40 (40 x)	210-333/700-108	100
◯ 41 … 60 (40 x)	210-333/700-109	100
◯ 1 … 50 (20 x)	210-333/700-021	100
◯ L1 (1040 x)	210-333/700-074	100
◯ L2 (1040 x)	210-333/700-075	100
◯ L3 (1040 x)	210-333/700-076	100
◯ N (1040 x)	210-333/700-077	100
◯ PE (1040 x)	210-333/700-078	100
◯ PEN (1040 x)	210-333/700-079	100
◯ only grid spacing	210-333/700-001	100

Marking strip; for 4-conductor terminal strips (262 Series)		
◯ 1 … 12 (40 x)	210-333/1200-103	100
◯ 13 … 24 (40 x)	210-333/1200-104	100
◯ 25 … 36 (40 x)	210-333/1200-105	100
◯ 37 … 48 (40 x)	210-333/1200-106	100
◯ 49 … 60 (40 x)	210-333/1200-107	100
◯ 1 … 24 (20 x)	210-333/1200-203	100
◯ L1 (600 x)	210-333/1200-074	100
◯ L2 (600 x)	210-333/1200-075	100
◯ L3 (600 x)	210-333/1200-076	100
◯ N (600 x)	210-333/1200-077	100
◯ PE (600 x)	210-333/1200-078	100
◯ PEN (600 x)	210-333/1200-079	100
◯ only grid spacing	210-333/1200-001	100

Group Marker Carrier and Marker Carrier
TOPJOB® S



Group marker carrier; snap-on type for jumper slot; gray		
	Item No.	Pack. Unit
◯ 5 mm wide	2009-191	50 (25)
◯ 10 mm wide	2009-192	50 (25)
◯ 15 mm wide	2009-193	50 (25)

Group marker carrier; snap-on type for jumper slot; gray		
◯ 10 mm wide	2009-196	50 (25)



Marker carrier; for lateral marker slots; 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	2009-198	200 (25)



2009-193 Group Marker Carrier (equipped with marking strips) for all 2001 to 2016 Series TOPJOB® S Rail-Mount Terminal Blocks.
Do not use on an end plate!



Marker carrier; for jumper slots of double-deck, double-disconnect terminal blocks (2002 Series); 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	2002-160	50 (25)



Marker carrier; for jumper slots (2002 Series); 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	2002-161	100 (25)



Using marker carriers for marking strips (2002-161) in jumper slots.



Using marker carriers for marking strips (2009-198) in lateral marker slots.

Multilevel Marker Carrier
TOPJOB® S



Double-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	2000-121	50 (25)



Double-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	2002-121	50 (25)



Triple-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	2002-131	50 (25)



Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

Group Marker Carriers (Adjustable in Height) and Laterally Movable Marking System



Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for terminal block width 4 … 6 mm; for up to 3 WMB markers or 8 branch markers; 15 mm wide

Color	Item No.	Pack. Unit
gray	**209-140**	50 (25)

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for up to 2 WMB markers or 5 branch markers; 10 mm wide

Color	Item No.	Pack. Unit
gray	**209-141**	50 (25)

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for up to 1 WMB markers or 2 branch markers; 5 mm wide

Color	Item No.	Pack. Unit
gray	**209-142**	50 (25)



Group marker carrier; snaps onto screwless 249-116 and 249-117 End Stops (center or side mounting); 10 mm wide

Color	Item No.	Pack. Unit
white	**209-112**	50 (25)

Accessories; item-specific

Marker; from white cardboard; for self-marking; 100 markers/sheet

white	**209-113**	1

Selbstklebeschild; zum Selbstbeschriften; 7 x 25 Stück/ Bogen

white	**210-345**	1

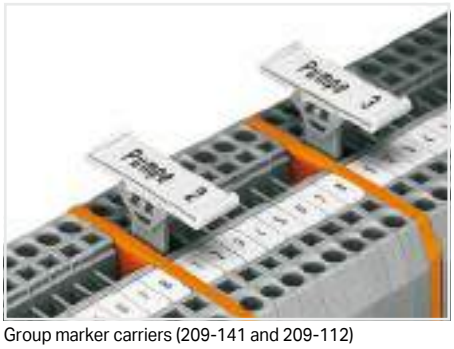
Schutzstreifen

transparent	**209-114**	50



Group marker carrier; for WMB and Mini-WSB marker slots; 10 mm wide

Color	Item No.	Pack. Unit
white	**209-145**	100 (25)



Group marker carriers (209-141 and 209-112)



Group marking on N-busbar carrier used as an end stop



Group marker carrier (209-145)

Group Marker Carriers (Adjustable in Height) and Laterally Movable Marking System







Receptacles for:
1 x marker
2 x WMB Multi marker or
1 x WFB continuous marking strip

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 43.5 to 59.5 mm; for 1 marker or self-adhesive marker and transparent protection cover; 10 mm wide

Color	Item No.	Pack. Unit
gray	249-119	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 43.5 to 59.5 mm; for 2 WMB markers or 1 continuous strip; 10 mm wide

gray	249-118	100 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 42.2 to 58.2 mm; with marking surface; 6 mm wide

white	249-120	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 45 to 61 mm; for 9 WMB markers or 1 marking strip TOPJOB® S; 12.2 mm wide

gray	2009-163	50 (25)

Carrier-through element; height-adjustable; snaps onto end stops (249-116 and 249-117)

Color	Item No.	Pack. Unit
gray	709-118	50 (25)

Carrier-end element; height-adjustable; snaps onto end stops (249-116 and 249-117)

gray	709-119	50 (25)

Accessories; item-specific

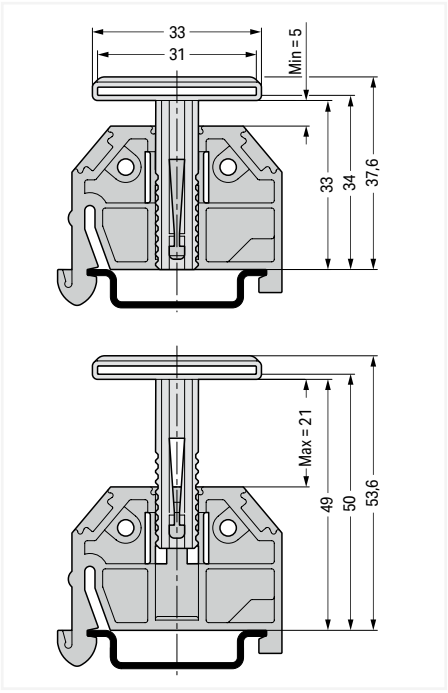
Marking strip receptacle; folded; 1 m long; 16 mm wide; 1.7 mm thick



transparent	709-120	1

Marking card; with 14 marking strips; DIN A4

	709-193	1



Dimensions in mm



Height adjustable group marker carrier (2009-163) for marking strips (2009-110)



This laterally movable marking system can be used as an additional group marker carrier or continuous marking strip carrier for terminal strips or single-deck rail-mount terminal blocks, e.g., for:

- DIN-35 rail-mount terminal strips (264 Series)
- Single-deck rail-mount terminal blocks (279 to 284 Series) with a maximum height of 49 mm (1.93 inch) from upper-edge of DIN-rail (please observe conductor radius)

Group Marker Carrier and Double Marker Carrier





Group marker carrier; angled; e.g., for transformer terminal blocks (282 Series)		
Color	Item No.	Pack. Unit
gray	**209-144**	50 (25)

Group marker carrier; straight; e.g., for 2- and 3-conductor terminal blocks (282 Series)		
gray	**209-143**	50 (25)

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide		
Color	Item No.	Pack. Unit
gray	**209-128**	200 (100)

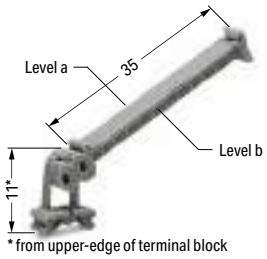


This group marker carrier (209-144) makes it possible to mark subgroups in confined places. They can be snapped into unused jumper contact slots of the terminal block housing. Labeling is performed via WMB Multi markers.



Snapping a WMB marker strip into the marker slot of the double marker carrier.

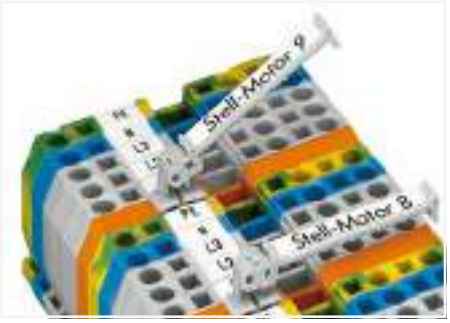
Group Marker Carrier (Pivoting)



* from upper-edge of terminal block

Pivoting group marker carrier		
Color	Item No.	Pack. Unit
gray	249-105	50 (25)

Zubehör; artikelspezifisch			
Marker; 4 x 30 markers/sheet			
	white	209-183	1
Protective marker cover			
	transparent	209-184	50



This pivoting group marker carrier has been developed for group marking of rail-mount terminal blocks and incorporates many customer requirements.

- Can be used in all multiprofile marker slots for rail-mount terminal bocks from 5 mm (0.197 inch) on or in spacer housings as shown above.
- Pivotable in seven different stable positions, providing the best visual angle in case of difficult mounting conditions

Thermal Transfer Printer
Smart Printer


Open the printer.


Printer – open


Accessories for unwinding material

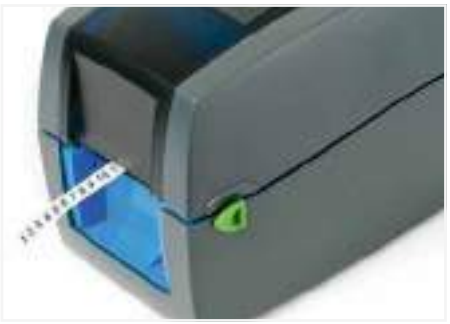

Insert the ink ribbon.




Prepare the marking material.


Insert and secure the appropriate roller into the printer.


Printer has several interfaces:
USB, ETHERNET, serial COM port


Fast, cost-effective and easy to use –
printing WMB Inline markers via Smart Printer

Thermal Transfer Printer and Cutter
Smart Printer



Smart Printer; WMB Inline markers; Marking strips; Conductor markers and labels; Resolution: 300 dpi

Item No.	Pack. Unit
258-5000	1

Smart Printer
includes:
- Power supply and cable
- USB cable
- 1 x marking strip reel (2009-110)
- 1 x WMB Inline marker reel (2009-115)
- 2 x roller (258-5006 + 258-5007)
- 1 x reel holder
- 1 x ink ribbon (258-5005)

Technical Data	
Printing method	Thermal transfer
Print head	Glass layer, spring-mounted
Print speed (max.)	127 mm/s (WAGO recommends 50.8 mm/s)
Print width (max.)	47 mm
Print length (max.)	762 mm
Print resolution	300 dpi (12 pixels/mm)
See-through/reflective sensor	Yes, centrally mounted
Operating display	Color TFT LCD with navigation button
Memory	8 MB Flash, 16 MB SDRAM
Interfaces	USB, RS-232, ETHERNET 10/100 Mbps, USB Host
Operating voltage	100 … 240 VAC, 50 … 60 Hz (automatic adjustment)
Dimensions (mm) W x H x D	135 x 175 x 245
Weight	2000 g (without printing material)
Operating temperature	5 … 40 °C (41 … 104 °F)
Storage temperature	−20 … 50 °C (−4 … 122 °F)
Safety approvals	CE (EMC)
Ink ribbon (see also Full Line Catalog, Volume 6, Marking)	External roll diameter: 40 mm; Internal core diameter: 12.7 mm (0.5 inch); Max. length: 110 m; Max. width: 58 mm





Cutter for Smart Printer; for marking strips only; not suitable for WMB Inline markers

Item No.	Pack. Unit
258-5030	1

Hardware requirements:
- Printer model: Smart Printer
- From manufacturing month/year: 0814 – August 2014
- Firmware version: 1.UW7i
- Printer driver: Version 7.4.2

Software requirements:
- Smart Script: Version 3.88.9.0 or higher
- WAGO printer settings: Version 2.4.0.0 or higher

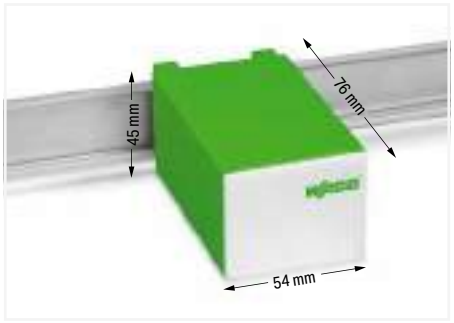
Approved print material to be cut:
- Marking strips: 2009-110, 709-177, 709-178, 757-901/000-005
- Self-adhesive marking strips: 210-702, 210-870 … -877
- Cable tie markers: 211-835 … -836, 211-836/000-002
- Self-laminating labels: 211-855 … -857
- Conductor markers for thread-on mounting: 211-861 … -863
- Type labels: 210-801 … -804, 210-812
- Continuous labels: 210-831 … -834
- Label for circuit identification: 210-813

Dimensions of printing materials:
- Width (max.): 46 mm
- Thickness (max.): 250 µm

Technical Data	
Width	60 mm
Height	107 mm
Depth	131 mm
Weight	1050 g

Control Cabinet Outlet and Switch Cabinet Drawer
709 Series





Technical Data		
Ratings per	DIN VDE 0620-1	
Voltage type	AC	
Rated voltage	250 V	
Rated surge voltage	2 kV	
Rated current	16 A	

Connection Data	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Type 2 (3.5 x 0.5) mm blade
Actuation direction	Operation parallel to conductor entry
Connectable conductor materials	Copper
Solid conductor	0.2 … 2.5 mm / 24 … 14 AWG
Stranded conductor	0.2 … 2.5 mm / 24 … 14 AWG
Fine-stranded conductor	0.2 … 2.5 mm / 24 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Number of poles	3

Mechanical Data	
Mounting type	DIN-35 rail
Protection type	IP20
Potential marking	L PE N

Material Data	
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Sn

Environmental Requirements	
Continuous operating temperature from	–35 °C
Continuous operating temperature up to	85 °C

14

❶ The outlets are available in three colors to identify different circuits:
- 709-581 gray (standard)
- 709-582 yellow (permanently energized)
- 709-583 red (UPS)

Approvals and corresponding ratings, visit www.wago.com

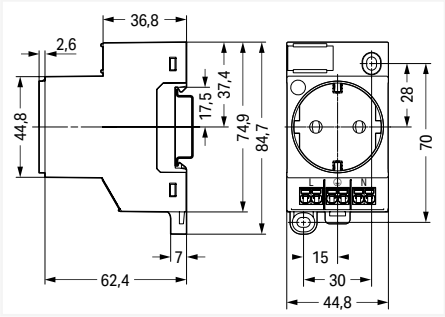
Control Cabinet Outlet and Switch Cabinet Drawer
709 Series

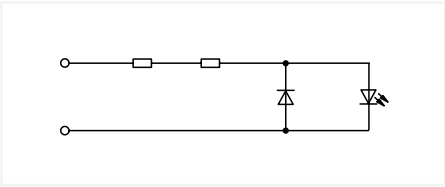






Dimensions in mm

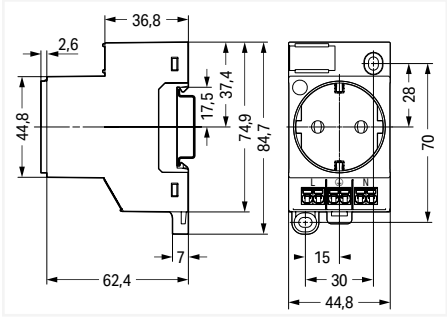


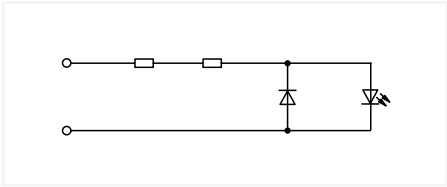


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
light gray	709-581	1

Dimensions in mm

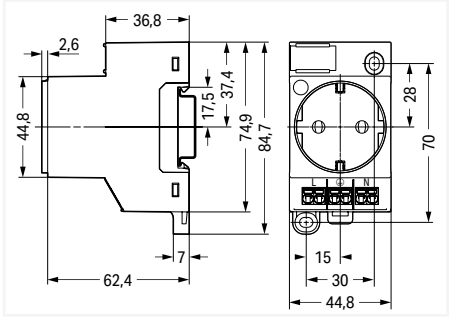


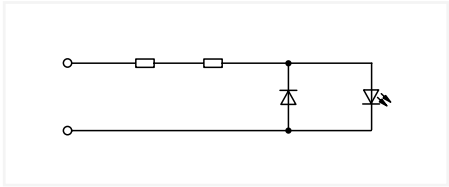


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
yellow	709-582	1

Dimensions in mm



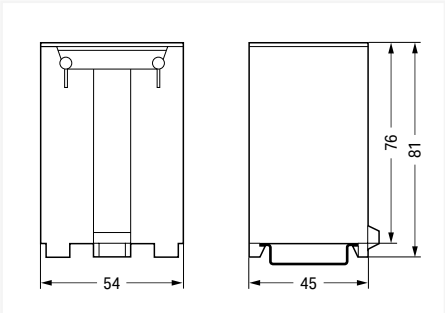


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
red	709-583	1



Dimensions in mm



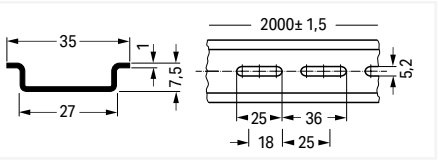
Switchgear cabinet drawer; DIN-35 rail-mount drawer

Item No.	Pack. Unit
709-591	1

DIN-Rail; Rail End Cap; Angled Support Bracket and Collective Jumper Carrier



Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-113**	10 (1)

Hole width: 25 mm; Hole spacing: 36 mm

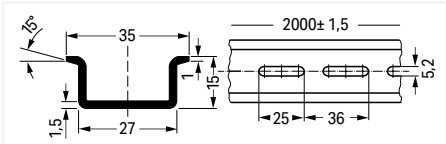
slotted	**210-112**	10 (1)

Hole width: 18 mm; Hole spacing: 25 mm

slotted	**210-115**	1



Dimensions in mm

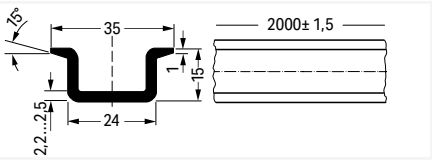


Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-114**	10 (1)
slotted	**210-197**	10 (1)



Dimensions in mm

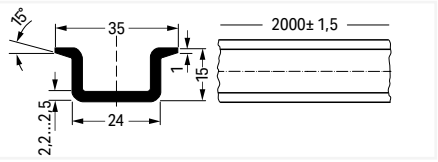


Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-118**	10 (1)



Dimensions in mm

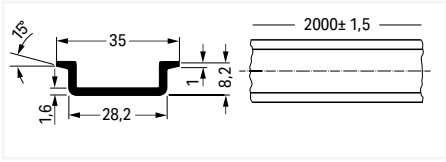


Copper DIN-rail; I_N 309 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-198**	10 (1)



Dimensions in mm



Aluminum DIN-rail; I_N 76 A (based on 1 m length); 35 x 8.2 mm; 1.6 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-196**	20 (1)





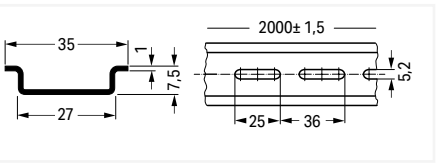
Rail end cap; for DIN-35 rail (7.5 mm high)

Color	Item No.	Pack. Unit
gray	**209-109**	50 (25)

14



Dimensions in mm

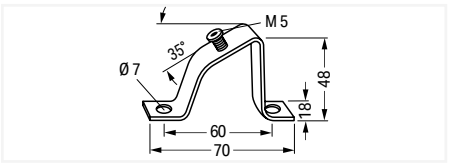


Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-505**	1
slotted	**210-504**	1



Dimensions in mm

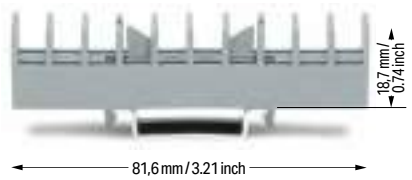


Angled support bracket; without screw

	Item No.	Pack. Unit
	210-148	10

Screw M5 x 8

	Item No.	Pack. Unit
	210-149	100 (20)

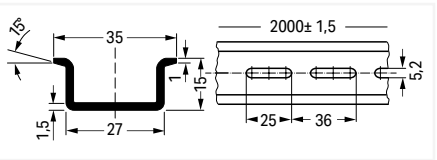


Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)
The collective carrier can be snapped onto DIN-35 rails. It stores jumpers during maintenance.

Color	Item No.	Pack. Unit
gray	**282-369**	25



Dimensions in mm

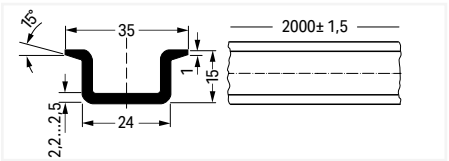


Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-506**	1
slotted	**210-508**	1

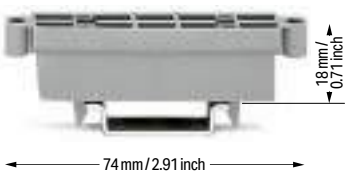


Dimensions in mm



Carrier rail; plastic
Not suited for use with ground terminal blocks!

	Item No.	Pack. Unit
	210-509	10 (1)

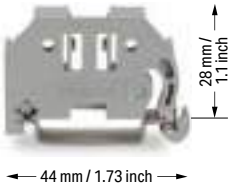


Collective carrier for adjacent jumpers; for DIN-35 rail; for adjacent jumpers (279 to 284 Series); for banana plugs (215 Series)
The collective carrier can be snapped onto DIN-35 rails. It stores adjacent jumpers and banana plugs during maintenance.

Color	Item No.	Pack. Unit
gray	**209-100**	50 (25)

14

Screwless End Stop; for DIN-35 Rail
249 Series



Screwless end stop; for DIN-35 rail; 6 mm wide		
Color	Item No.	Pack. Unit
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide		
gray	249-117	50 (25)



Screwless end stop; for DIN-35 rail; 14 mm wide		
Color	Item No.	Pack. Unit
gray	249-197	10


Simply snap on – that's it!


Simply snap on – that's it!


Simply snap on – that's it!


Removing an end stop from the DIN-rail.

Snap on – that's it! Assembling the WAGO Screwless End Stop is as simple and quick as snapping a rail-mount terminal block onto the rail.

Tool free!

A tool-free design allows rail-mount terminal blocks to be safely and economically secured against any movement on all DIN-35 rails per DIN EN 60715 (35 x 7.5 mm; 35 x 15 mm).

Screwless!

The "secret" to a perfect fit lies in the two small clamping plates which keep the end stop in position, even if the rails are mounted vertically.

Simply snap on – that's it!

In addition, costs are significantly reduced when using large numbers of end stops.

Additional benefit: Three marker slots for all WAGO Rail-Mount Terminal Block Marking Systems and one snap-in hole for WAGO's adjustable height group marker carriers offer individual marking options.

Mounting Foot



Mounting foot; for isolated DIN-35 rail mounting		
Color	Item No.	Pack. Unit
gray	209-106	25



Isolated mounting of a carrier rail in a distribution box for protection class II

Sealable, Transparent Covers for Rail-Mount Terminal Blocks 709 Series

Description and Installation



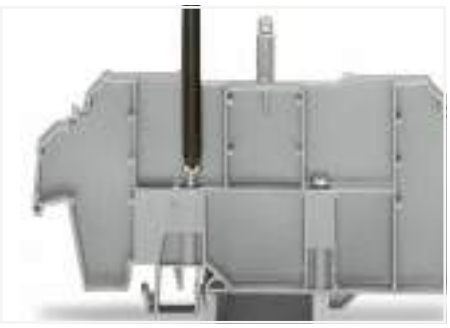
Snapping a cover carrier onto the DIN-rail.



Application example:
Cover (type 1) without safety warning



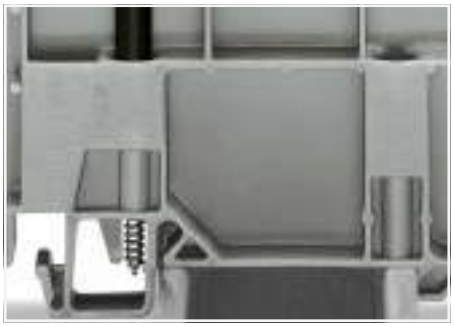
Application example:
Cover (type 1) with safety warning



Tightening both securing screw (left) and mounting screw (right).



Application example:
Cover (type 2) with safety warning



Securing screw – prevents lifting off from the rail.
Mounting screw – prevents the cover carrier from being moved on the rail.



Removing a cover carrier from the DIN-rail.



Inserting a marking strip into the cover.



Cover with lead seals:
Using covers without lead seals,
the thread dome-head can be broken off.

Sealable, Transparent Cover; for Rail-Mount Terminal Blocks
709 Series



Cover; Type 1; for cover carrier (type 1); 1 m long		
Color	Item No.	Pack. Unit
transparent	**709-153**	10



Cover; Type 2; for cover carrier (type 2); 1 m long		
Color	Item No.	Pack. Unit
transparent	**709-154**	10

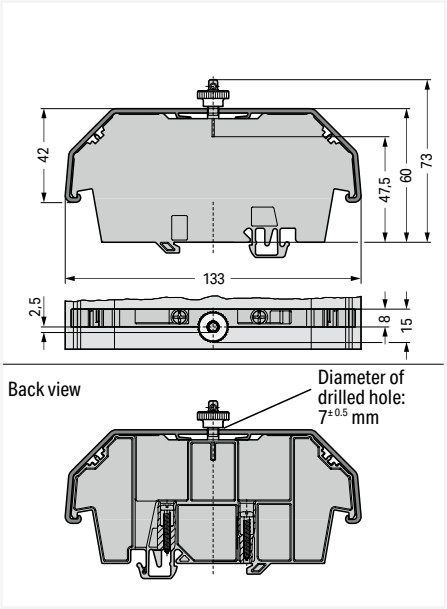


Cover carrier; Type 1; incl. mounting/securing screws and knurled nut; for rail-mount terminal blocks (279 to 282, 880 Series); for "Mini" rail-mount terminal blocks (264 Series); for sensor/actuator terminal blocks (270 Series)		
Color	Item No.	Pack. Unit
gray	**709-167**	10

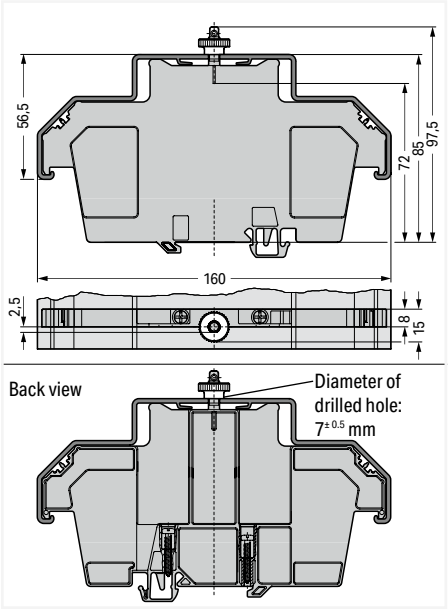


Cover carrier; Type 2; incl. mounting/securing screws and knurled nut; for rail-mount terminal blocks (283 to 285 Series); for double- and triple-deck terminal blocks (279 to 281 Series); for TOPJOB® rail-mount terminal blocks (780 to 785 and 775 Series); for sensor/actuator terminal blocks (280 Series); for disconnect/test terminal blocks for transformer circuits (282 Series)		
Color	Item No.	Pack. Unit
gray	**709-168**	10

Dimensions in mm



Dimensions in mm



Accessories

Marking card; with 6 marking strips; for group marking or safety instructions

plain	**709-183**	1

Spare mounting/securing screw; for cover



209-196	200 (25)

Spare knurled nut; for cover



210-549	100 (25)

Sealable, Transparent Cover; for Rail-Mount Terminal Blocks
709 Series



Cover; Type 3; for cover carrier (type 3); 1 m long		
Color	Item No.	Pack. Unit
transparent	709-156	10



Cover carrier; Type 3; for rail-mount terminal blocks (2000 to 2016 Series, 2102 to 2116 Series, 2200 to 2216 Series); for transformer terminal blocks (2007 Series)		
Color	Item No.	Pack. Unit
gray	709-169	10

Accessories

Marking card; with 6 marking strips; for group marking or safety instructions

plain	709-183	1

Marking strip; plain; 11 mm wide; 50 m reel



white	2009-110	1

Spare mounting/securing screw; for cover



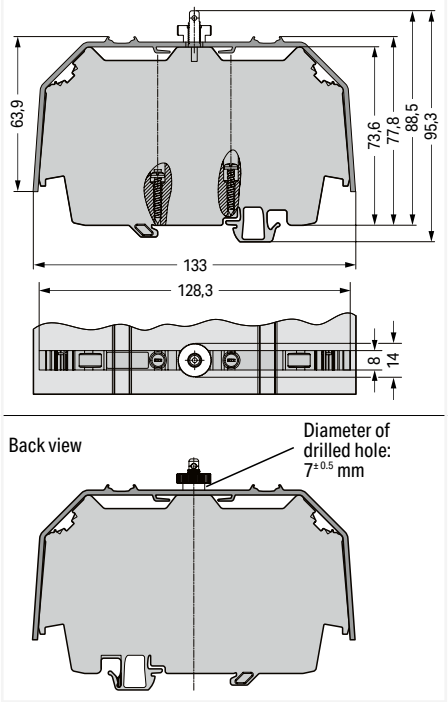
	209-196	200 (25)

Spare knurled nut; for cover



	210-549	100 (25)

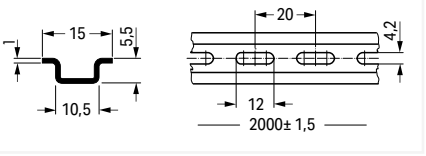
Dimensions in mm



DIN-Rail and End Stop; for DIN-15 Rail



Dimensions in mm

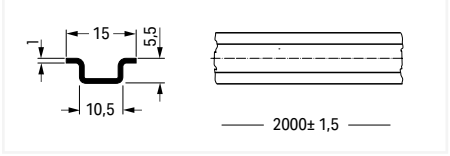


Steel DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
slotted	**210-111**	10 (1)



Dimensions in mm



Aluminum DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-296**	10 (1)

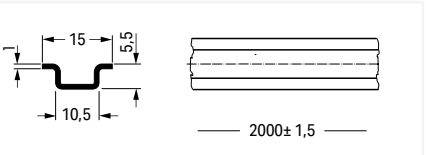


Screwless end stop; for DIN-15 rail; 6 mm wide; for WMB markers

Color	Item No.	Pack. Unit
gray	**249-101**	25



Dimensions in mm



Steel DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-295**	1

Operating Tool



Operating tool with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade		
	Item No.	Pack. Unit
	210-719	50 (1)

Operating tool with a partially insulated shaft; Type 2, (3.5 x 0.5) mm blade		
	210-720	50 (1)

Operating tool with a partially insulated shaft; Type 3, (5.5 x 0.8) mm blade		
	210-721	25 (1)

Set of operating tools with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade; Type 2, (3.5 x 0.5) mm blade; Type 3, (5.5 x 0.8) mm blade		
	210-722	1



Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade; short		
	Item No.	Pack. Unit
	210-647	50 (1)

Operating tool with a partially insulated shaft; (2.5 x 0.4) mm blade; short; angled		
	210-648	50 (1)

Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short		
	210-657	50 (1)

Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short; angled		
	210-658	50 (1)



Operating tool; Blades: 3.5 mm and 2.5 mm; for installation terminal blocks (TOPJOB® S)		
	Item No.	Pack. Unit
	2009-309	50 (1)

Operating tool; Blades: 3.5 mm and 5.5 mm; for installation terminal blocks (TOPJOB® S)		
	2009-310	50 (1)



The blade of this operating tool with a partially insulated shaft is ideal for operating front-entry terminal blocks.



This operating tool with blade dimensions per DIN 5264 is ideal for front-entry sensor/actuator terminal blocks (280 Series).



Open the clamping unit using an operating tool.



Set of operating tools in a box (210-722)

Operating Tool



Operating tool; insulated; for 279 Series		
	Item No.	Pack. Unit
1-way	209-129	100 (1)
2-way	279-432	100 (1)
3-way	279-433	100 (1)
10-way	279-440	30 (1)

Operating tool; insulated; for 264 Series (1- and 2-way only), 280, 281 Series (up to 3-way only)		
1-way	209-130	100 (1)
2-way	280-432	100 (1)
3-way	280-433	100 (1)
4-way	280-434	40 (1)
5-way	280-435	40 (1)
6-way	280-436	30 (1)
7-way	280-437	30 (1)
8-way	280-438	30 (1)
9-way	280-439	30 (1)
10-way	280-440	30 (1)

Operating tool; insulated; for 281 Series		
5-way	281-440	40 (1)



Operating pliers; for side-entry rail-mount terminal blocks (281, 282, 283 and 284 Series)		
	Item No.	Pack. Unit
	210-141	1

Operating pliers; for side-entry rail-mount terminal blocks (279 and 280 Series)		
	210-143	1



T-wrench with a partially insulated shaft		
	Item No.	Pack. Unit
	285-172	1

T-wrench with a partially insulated shaft and anti-rotation protection		
	285-173	1



Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.
The operating pliers are placed into the upper operating slot of the rail-mount terminal block and the clamp is hooked into the lateral operating slot. The contact is fully opened by pressing the handles together until they engage. This will allow both hands to be used for wiring the terminal blocks.



T-wrench with a partially insulated shaft and anti-rotation protection (285-173)

Cable Stripper



Cable knife; for Ø 8 … 28 mm / 0.31 … 1.10 inch; with a unique, changeable cable bracket system; including cable bracket

	Item No.	Pack. Unit
	206-1403	1



Cable knife set; for Ø 4 … 70 mm / 0.16 … 2.75 inch; including all cable brackets in a Sortimo® Box

	Item No.	Pack. Unit
	206-1400	1

Never use this tool on or near live electrical circuits!



To replace the cable bracket, use the new bracket as an operating tool and pull it upwards.

Item-Specific Accessories

Cable bracket; for Ø 4 … 16 mm / 0.16 … 0.63 inch



206-1411 1

Cable bracket; for Ø 8 … 28 mm / 0.31 … 1.10 inch



206-1412 1

Cable bracket; for Ø 27 … 35 mm / 1.06 … 1.38 inch



206-1413 1

Cable bracket; for Ø 35 … 50 mm / 1.38 … 1.97 inch



206-1414 1

Cable bracket; for Ø 50 … 70 mm / 1.97 … 2.75 inch



206-1415 1



The cutting depth of the hook blade can be adjusted with the slider.

Accessories

Spare inside blade

206-1418 1

Spare hook blade



206-1419 1



The cutting depth of the inner knife can be adjusted with the screw.





Strip large cross sections with the hook blade.



Release the fuse before using the hook blade.

14

Cable Stripper



In-socket cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch

Item No.	Pack. Unit
206-1441	1



Product features:
- Extra long design and improved force transmission simplifies stripping in deep device connection sockets
- Special four-blade design for an even more precise round cut
- No cutting depth adjustment required
- TiN-coated blades, TÜV/GS tested
- Ø 8 … 13 mm / 5/16 … 1/2 inch
- Strips all standard round cables, including NYM 3 x 1.5 mm²/16 AWG … 5 x 2.5 mm²/14 AWG



Universal cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch

Item No.	Pack. Unit
206-1442	1



Sheath stripping: longitudinal cut

Product features:
- Secure grip achieved with soft padding for non-slip grips
- Technically improved functionality
- New locking mechanism prevents the unwanted opening of the tool
- Absolutely straightforward, quick and easy longitudinal cuts – with innovative internal cable duct
- Redesigned blade layout and intake to stop cable waste from jamming the tool
- Durable and ergonomically designed pocket clip
- Ø 8 … 13 mm / 5/16 … 1/2 inch



Stripping a cable sheath.



Built-in handy knife



Stripping a conductor insulation.



Data cable stripper; for Ø 4.5 … 10 mm / 3/16 … 3/8 inch

Item No.	Pack. Unit
206-1451	1

Product features:
- Strip outer insulation and foil sheathing with one tool
- Ideal for stripping PVC-insulated data cables with thin insulation (e.g., Cat. 5, Cat. 6, Cat. 7, twisted pair cable)
- TiN-coated blades
- Ø 4.5 … 10 mm / 3/16 … 3/8 inch



Cable Stripper



Stripping pliers; for sensor cables; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	Item No.	Pack. Unit
	206-1481	1

Item-Specific Accessories		
Replacement blade set; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	206-1491	1





Stripping pliers; for control cables; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	Item No.	Pack. Unit
	206-1482	1

Item-Specific Accessories		
Replacement blade set; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	206-1492	1







Never use this tool on or near live electrical circuits!

The stripping pliers for sensor cables have a blade geometry specially designed for sensor cables with a smaller cross section and a working range from Ø 3.2 mm / 0.13 inch (for stranded cables and round cables with Ø 3.2 mm … 4.4 mm / 0.13 … 0.17 inch).

The stripping pliers for control cables are designed for stronger cables from Ø 4.4 mm / 0.17 inch (for stranded cables and round cables with Ø 4.4 mm … 7 mm / 0.17 … 0.27 inch).

These stripping pliers quickly and safely strip cables for connecting, e.g., sensor/actuator distribution boxes, bus couplers and pluggable connectors.

Suitable for:
- Halogen-free PUR sensor/actuator cables
- Highly flexible TPE-U cables
- Control cables
- PUR cables
- PUR/PVC cables
- PVC cables
- Multi-core cables
- Shielded and unshielded cables

Wire Stripper



Wire stripper "Quickstrip Vario"; 0.03 … 16 mm² / 34 … 6 AWG; with wire cutter		
	Item No.	Pack. Unit
	206-1125	1

Accessories

Blade set; Standard; 0.03 … 16 mm² / 34 … 6 AWG		
	206-1126	1
Blade set; V-blade; 0.14 … 4 mm² / 24 … 12 AWG		
	206-1127	1
Blade set; Oval blade; 10 … 16 mm² / 8 … 6 AWG		
	206-1128	1
Spare stripping stop		
	206-1129	1
Spare cut protector		
	206-1131	1
Spare clamping jaws		
	206-1132	1



Cutting a conductor.



Partially stripping a conductor.

Wire Stripper:
- Automatically adjust to conductor size
- Stripping blades cause no damage to conductor strands
- Gripping pressure of jaws adjusts automatically to conductor insulation diameter
- Clamping jaws and stripping blades automatically open once the stripping process is completed – no splaying of the conductor strands
- Exact strip length may be set by sliding black setting stop
- Stripping blades can be replaced
- Self-sharpening, fully protected cutter (replaceable)
- Entire body made of glass-fiber-reinforced polyamide
- Cutting capacity of the wire cutter of fine-stranded conductors up to 16 mm² (6 AWG)

Crimping Tool



Crimping tool "Variocrimp 4"; for insulated and uninsulated ferrules; Crimping range: 0.25 … 4 mm² (24 … 12 AWG)

	Item No.	Pack. Unit
	206-1204	1

Item-Specific Accessories

Spring clamp; large



206-1205 1

Spring clamp; small



206-1206 1



Crimping tool "Variocrimp 16"; for insulated and uninsulated ferrules; Crimping range: 6 mm² (10 AWG), 10 mm² (8 AWG) and 16 mm² (6 AWG)

	Item No.	Pack. Unit
	206-1216	1

Item-Specific Accessories

Spring clamp; small



206-1206 1

Application notes:

- The built-in crimping pressure control of "Variocrimp 4" automatically adjusts the crimping force to the conductor cross section. Select the wire gauge on "Variocrimp 16" before crimping.
- Only one crimping station is needed to handle the specified conductor range.
- Uniform, compact crimping on all four sides for high conductor retention.
- No need to center the ferrules into the terminal blocks.
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.



Insert the ferruled conductor into the crimping station.



Squeeze handles until ratchet mechanism is released.



A perfect gas-tight crimp – both electrically and mechanically reliable



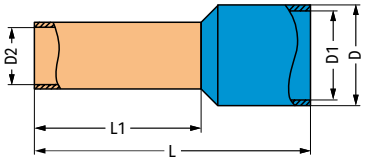
Only for "Variocrimp 16":
Adjust conductor cross section with crimping tool in open position.

What is a "gas-tight" connection?

In a gas-tight connection, the conductor and the ferrule are compressed, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor gaseous medium can penetrate the crimped connection.
Oxidation between crimped single conductors is prevented, virtually eliminating the possibility of any increase in the crimped connection's resistance. In some exceptional cases, minute, isolated spaces may be present. However, these instances can be considered as closed off due to the twisted conductor.
Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain, permitting oxidation formation and an increase in contact resistance.
Elevated resistance is detrimental for both signal transmission (signal flow is damped) and power transmission, resulting in power loss and contact heating (risk of fire).
Crimping tools with built-in ratchets are recommended (e.g., WAGO Crimping Tools). These tools open automatically after the crimping operation is complete. Space-saving crimping from all four sides is ideal for spring clamp termination.
Ferruled conductor cross sections specified for WAGO products are based on this crimping method.

Insulated ferrule; for Rail-Mount Terminal Block TOPJOB® S





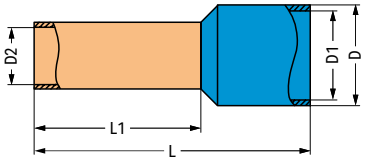
Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	white	12 mm / 0.47 inch	16	10	3.1	2.6	1	216-241	1000
0.75 mm² / 18 AWG	gray	12 mm / 0.47 inch	16	10	3.3	2.8	1.2	216-242	1000
0.75 mm² / 18 AWG	gray	14 mm / 0.55 inch	18	12	3.3	2.8	1.2	216-262	1000
1 mm² / 18 AWG	red	12 mm / 0.47 inch	16	10	3.5	3	1.4	216-243	1000
1 mm² / 18 AWG	red	14 mm / 0.55 inch	18	12	3.5	3	1.4	216-263	1000
1.5 mm² / 16 AWG	black	12 mm / 0.47 inch	16	10	4	3.5	1.7	216-244	1000
1.5 mm² / 16 AWG	black	14 mm / 0.55 inch	18	12	4	3.5	1.7	216-264	1000
1.5 mm² / 16 AWG	black	20 mm / 0.79 inch	24	18	4	3.5	1.7	216-284	500
2.5 mm² / 14 AWG	blue	12 mm / 0.47 inch	17	10	4.7	4.2	2.2	216-246	1000
2.5 mm² / 14 AWG	blue	14 mm / 0.55 inch	19	12	4.7	4.2	2.2	216-266	1000
2.5 mm² / 14 AWG	blue	20 mm / 0.79 inch	25	18	4.7	4.2	2.2	216-286	500
4 mm² / 12 AWG	gray	14 mm / 0.55 inch	20	12	5.4	4.8	2.8	216-267	500
4 mm² / 12 AWG	gray	20 mm / 0.79 inch	26	18	5.4	4.8	2.8	216-287	100
6 mm² / 10 AWG	yellow	14 mm / 0.55 inch	20	12	6.9	6.3	3.5	216-208	100
6 mm² / 10 AWG	yellow	20 mm / 0.79 inch	26	18	6.9	6.3	3.5	216-288	100
10 mm² / 8 AWG	red	20 mm / 0.79 inch	28	18	8.4	7.6	4.5	216-289	100
16 mm² / 6 AWG	blue	23 mm / 0.91 inch	28	18	9.6	8.8	5.8	216-210	100



Fine-stranded conductors with ferrules from at least two sizes below the rated cross section up to the rated cross section can also be simply pushed in – without tools.

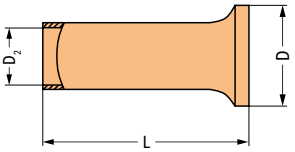
Insulated and Uninsulated Ferrules; for Chassis-Mount Terminal Strip





Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	white	12 mm / 0.47 inch	16	10	3.1	2.6	1	216-241	1000
0.75 mm² / 18 AWG	gray	12 mm / 0.47 inch	16	10	3.3	2.8	1.2	216-242	1000
1 mm² / 18 AWG	red	12 mm / 0.47 inch	16	10	3.5	3	1.4	216-243	1000
1.5 mm² / 16 AWG	black	12 mm / 0.47 inch	16	10	4	3.5	1.7	216-244	1000

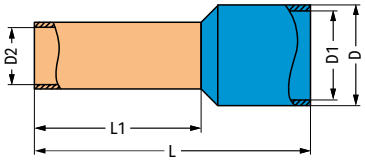




Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	10 mm / 0.39 inch	10	2.1	1	216-141	5000 (1000)
0.75 mm² / 18 AWG	10 mm / 0.39 inch	10	2.3	1.2	216-142	5000 (1000)
1 mm² / 18 AWG	10 mm / 0.39 inch	10	2.5	1.4	216-143	5000 (1000)
1.5 mm² / 16 AWG	10 mm / 0.39 inch	10	2.8	1.7	216-144	5000 (1000)

Insulated and Uninsulated Ferrules

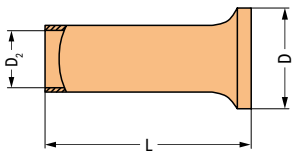




Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)

Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.25 mm² / 24 AWG	yellow	7 mm / 0.28 inch	10	6	2.3	1.8	0.85	216-321	1000
0.25 mm² / 24 AWG	yellow	9 mm / 0.35 inch	12	8	2.3	1.8	0.85	216-301	1000
0.34 mm² / 22 AWG	light turquoise	7 mm / 0.28 inch	10	6	2.5	2	0.85	216-322	1000
0.34 mm² / 22 AWG	light turquoise	9 mm / 0.35 inch	12	8	2.5	2	0.85	216-302	1000
0.5 mm² / 20 AWG	white	7 mm / 0.28 inch	12	6	3.1	2.6	1	216-221	1000
0.5 mm² / 20 AWG	white	9 mm / 0.35 inch	14	8	3.1	2.6	1	216-201	1000
0.75 mm² / 18 AWG	gray	8 mm / 0.31 inch	12	6	3.3	2.8	1.2	216-222	1000
0.75 mm² / 18 AWG	gray	10 mm / 0.39 inch	14	8	3.3	2.8	1.2	216-202	1000
1 mm² / 18 AWG	red	8 mm / 0.31 inch	12	6	3.5	3	1.4	216-223	1000
1 mm² / 18 AWG	red	10 mm / 0.39 inch	14	8	3.5	3	1.4	216-203	1000
1.5 mm² / 16 AWG	black	8 mm / 0.31 inch	12	6	4	3.5	1.7	216-224	1000
1.5 mm² / 16 AWG	black	10 mm / 0.39 inch	14	8	4	3.5	1.7	216-204	1000
2.08 mm² / 14 AWG	yellow	10 mm / 0.39 inch	15	8	4.8	4.2	2.05	216-205	1000
2.5 mm² / 14 AWG	blue	10 mm / 0.39 inch	15	8	4.7	4.2	2.2	216-206	1000
4 mm² / 12 AWG	gray	12 mm / 0.47 inch	18	10	5.4	4.8	2.8	216-207	500
6 mm² / 10 AWG	yellow	14 mm / 0.55 inch	20	12	6.9	6.3	3.5	216-208	100
10 mm² / 8 AWG	red	16 mm / 0.63 inch	22	12	8.4	7.6	4.6	216-209	100
16 mm² / 6 AWG	blue	23 mm / 0.91 inch	28	18	9.6	8.8	5.8	216-210	100





Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)

Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
0.25 mm² / 24 AWG	5 mm / 0.2 inch	5	1.7	0.75	216-151	1000
0.25 mm² / 24 AWG	7 mm / 0.28 inch	7	1.7	0.75	216-131	1000
0.34 mm² / 22 AWG	5 mm / 0.2 inch	5	1.8	0.85	216-152	1000
0.34 mm² / 22 AWG	7 mm / 0.28 inch	7	1.8	0.85	216-132	1000
0.5 mm² / 20 AWG	6 mm / 0.24 inch	6	2.1	1	216-121	1000
0.5 mm² / 20 AWG	8 mm / 0.31 inch	8	2.1	1	216-101	1000
0.75 mm² / 18 AWG	6 mm / 0.24 inch	6	2.3	1.2	216-122	1000
0.75 mm² / 18 AWG	8 mm / 0.31 inch	8	2.3	1.2	216-102	1000
1 mm² / 18 AWG	6 mm / 0.24 inch	6	2.5	1.4	216-123	1000
1 mm² / 18 AWG	8 mm / 0.31 inch	8	2.5	1.4	216-103	1000
1.5 mm² / 16 AWG	6 mm / 0.24 inch	6	2.8	1.7	216-124	1000
1.5 mm² / 16 AWG	8 mm / 0.31 inch	8	2.8	1.7	216-104	1000
2.5 mm² / 14 AWG	10 mm / 0.39 inch	10	3.4	2.2	216-106	1000
4 mm² / 12 AWG	10 mm / 0.39 inch	10	4	2.8	216-107	1000
6 mm² / 10 AWG	12 mm / 0.47 inch	12	4.7	3.5	216-108	500
10 mm² / 8 AWG	12 mm / 0.47 inch	12	5.8	4.5	216-109	500
16 mm² / 6 AWG	15 mm / 0.59 inch	15	7.5	5.8	216-110	500

Crimping Tool





Crimping tool 25; for insulated and uninsulated ferrules; crimping range: 10 mm² (8 AWG), 16 mm² (6 AWG) and 25 mm² (4 AWG)		
	Item No.	Pack. Unit
	206-1225	1

Crimping tool 50; for insulated and uninsulated ferrules; crimping range: 35 mm² (2 AWG) and 50 mm² (1/0 AWG)		
	Item No.	Pack. Unit
	206-1250	1

Application notes:
- Improved crimping for higher conductor retention
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.



Insert the ferruled conductor into the crimping station.

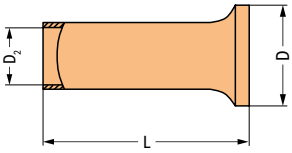


Squeeze handles until ratchet mechanism is released.

What is a "gas-tight" connection?
In a gas-tight connection, the conductor and the ferrule are compressed, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor gaseous medium can penetrate the crimped connection.
Oxidation between crimped single conductors is prevented, virtually eliminating the possibility of any increase in the crimped connection's resistance. In some exceptional cases, minute, isolated spaces may be present. However, these instances can be considered as closed off due to the twisted conductor.
Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain, permitting oxidation formation and an increase in contact resistance.
Elevated resistance is detrimental for both signal transmission (signal flow is damped) and power transmission, resulting in power loss and contact heating (risk of fire).
Crimping tools with built-in ratchets are recommended (e.g., WAGO Crimping Tools). These tools open automatically after the crimping operation is complete. Space-saving crimping from all four sides is ideal for spring clamp termination.
Ferruled conductor cross sections specified for WAGO products are based on this crimping method.

Uninsulated Ferrule





Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
25 mm² / 4 AWG	25 mm / 0.98 inch	25	9.5	7.3	**216-413**	50
35 mm² / 2 AWG	25 mm / 0.98 inch	25	11	8.3	**216-414**	50
35 mm² / 2 AWG	30 mm / 1.18 inch	30	11	8.3	**216-424**	50
50 mm² / 1/0 AWG	30 mm / 1.18 inch	30	13	10.3	**216-425**	50
50 mm² / 1/0 AWG	35 mm / 1.38 inch	35	13	10.3	**216-435**	50

Cable Cutter



Cable cutter; for copper and aluminum cables up to 35 mm² (2 AWG)		
	Item No.	Pack. Unit
	206-118	10 (1)



Cutting a cable.

Test and Measurement Devices
206 Series







Testboy; with integrated flashlight, non-contact voltage tester		
	Item No.	Pack. Unit
	206-804	6 (1)

Spare test probes; 4 mm Ø (2 pieces)		
	Item No.	Pack. Unit
	206-808	1

WAGO Test Probes; 2 mm Ø; 1000 V; CAT IV; 10 A		
	Item No.	Pack. Unit
	206-912	1



A device that will reliably detect AC voltage in cables, sockets, fuses, switches, outlets and other installations.
Testboy can detect the following:
- Live conductors
- Cable breaks
- Blown fuses (in cartridges or holders)
- Defective switches
- Defective lamps in strings of lights



Profi-LED+:
- Improved socket contact via 4 mm Ø test probes
- Removable test probes for small test ports (suitable for all WAGO Terminal Blocks)

Banana Plug (Only for Safety Extra-Low Voltage)
215 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
max. 42 V	
Test current: 20 A	
Measuring range category: CAT I	
9 … 11 mm / 0.35 … 0.43 inch	





Conductor termination: Press button fully, insert stripped conductor into square entry and release.

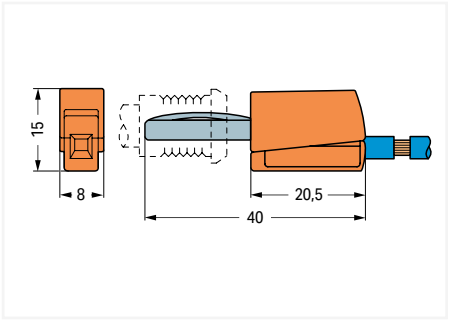


Testing via banana plug.
Picture shows a test plug adapter (209-170).

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow		
	Item No.	Pack. Unit
	215-111	50

Banana plug; single

Banana plug; for 4 mm socket diameter			
	orange	215-211	50
Banana plug; for 4 mm socket diameter			
	red	215-212	50
Banana plug; for 4 mm socket diameter			
	black	215-311	50
Banana plug; for 4 mm socket diameter			
	green	215-411	50
Banana plug; for 4 mm socket diameter			
	yellow	215-511	50
Banana plug; for 4 mm socket diameter			
	white	215-611	50
Banana plug; for 4 mm socket diameter			
	blue	215-711	50
Banana plug; for 4 mm socket diameter			
	gray	215-811	50
Banana plug; for 4 mm socket diameter			
	green-yellow	215-911	50



Dimensions in mm

Test Plug
210 Series



Test plug; with 500 mm cable; 2 mm Ø; max. 42 V		
Color	Item No.	Pack. Unit
red	**210-136**	50 (1)



Testing with a 2 mm Ø test plug (max. 42 V).

“Alu-Plus” Contact Paste
Terminating Aluminum Conductors



Syringe; contains 20 ml “Alu-Plus” Contact Paste		
	Item No.	Pack. Unit
	249-130	20 (5)



WAGO Lighting Connectors
Push nozzle of the “Alu-Plus” syringe first into the circular entry and then into the square conductor entry hole of the WAGO Lighting Connector.



Press plunger down **until the “Alu-Plus” has filled both entry holes.**

Note: Not suitable for higher temperature applications!

Terminating Aluminum Conductors
WAGO spring clamp terminal blocks are suitable for solid aluminum conductors ❶ up to 4 mm²/12 AWG if WAGO “Alu-Plus” Contact Paste is used for termination.

“Alu-Plus” Contact Paste Advantages:
- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

For spring clamp connections with PUSH WIRE® connection technology, **WAGO recommends that the aluminum conductor first be cleaned** and then immediately inserted into the clamping unit filled with “Alu-Plus” contact paste

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with “Alu-Plus” Contact Paste.

It is also possible to apply WAGO “Alu-Plus” **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:

2.5 mm² (14 AWG) = 16 A
4 mm² (12 AWG) = 22 A



WAGO Rail-Mount Terminal Blocks (up to 4 mm²/12 AWG)
For each conductor entry: Insert nozzle of the “Alu-Plus” syringe in every open conductor entry hole (one after the other).



Press plunger down until “Alu-Plus” has filled all conductor entry holes.

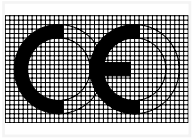
WAGO “Alu-Plus” in the syringe offers a higher degree of reliability and cleanliness when terminating solid aluminum conductors. Filling is quickly performed on selected WAGO connectors and terminal blocks (see pictures).

❶ Aluminum conductors per IEC 61545 standard, Class B, “Alloy 1370” with 90 … 180 N/mm² tensile strength and 1 … 4% elongation
Standard values: 90 … 180 MPa tensile strength, 1 … 4% elongation (per EN 615.4.1)



Technical Section

Technical Section

		Page
	**Technical information** **CE Marking and EC Directives**	728
	Tests and testing procedures Mechanical, Electrical, Material and Environmental Tests	730
	UL Specifications – Underwriters Laboratories, USA Tests and Testing Procedures per UL Standards	732
	**“Alu-Plus” Contact Paste** Terminating aluminum conductors	752
	Material Specifications Insulation Materials, Contact Plating, Contact Materials and Clamping Spring Material	755
	**Technical Information on Electrical Equipment Used in Hazardous Areas** ⟨Ex⟩	756
	**All terminal blocks used in hazardous areas “Ex e II” have their item numbers marked with the Ex symbol.**	761
	**All terminal blocks used in intrinsically safe current circuits “Ex i” have their item numbers marked with a blue circle.**	
	Operating WAGO Connection Technologies	
	International Certification Organizations – Overview	772
	**Electrical Engineering Laboratory** Product Safety for Our Customers	774
	**WAGO Seminars** Learn Today – Benefit Tomorrow Benefit from First-Hand Knowledge and Expertise – Training Straight from the Source!	776

Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

PUSH-IN CAGE CLAMP®







Push-in CAGE CLAMP® terminates the following copper conductors:
solid



stranded



fine-stranded, also with tinned single strands



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

The universal connection with an additional advantage: Push-in connection
Terminate solid and stranded (Class B 7 strands or less), as well as ferruled conductors, by simply pushing them in – no tools required.

Termination for all conductor types:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

CAGE CLAMP®







CAGE CLAMP® terminates the following copper conductors:
solid



stranded



fine-stranded, also with tinned single strands



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

The universal connection for solid, stranded and fine-stranded conductors

Termination:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

POWER CAGE CLAMP®







POWER CAGE CLAMP terminates the following copper conductors: solid



stranded



fine-stranded, also with tinned single strands



fine-stranded, with ferrule (gastight crimped)

The universal connection for conductors larger than 35 mm² (2 AWG)

Termination:

- Open clamp by turning a T-wrench counter-clockwise.
- Press the integrated latch to open clamping unit for hands-free wiring.
- Insert the conductor.
- A small counter-clockwise rotation closes the clamp, securing conductor.

PUSH WIRE®







PUSH WIRE® terminates the following copper conductors: solid

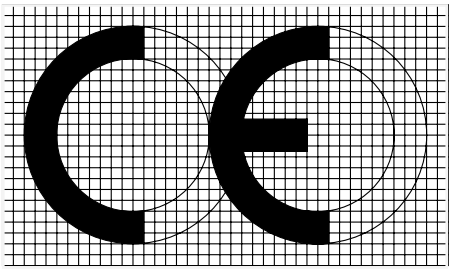
PUSH WIRE® connection for solid and stranded conductors (depending on the model used)

Termination:
Tool-free, twist-free terminations for solid and rigid stranded conductors – simply push into the unit.

CE Marking and EC Directives

CE Conformity Marking

The CE conformity marking consists of the characters “CE” with the following script:



Communauté Européenne
(European Community)

WAGO GmbH & Co. KG products are developed, tested and marked in accordance with legally valid international standards and laws.

The CE mark is applied to products intended for the European domestic market; with it, manufacturers declare that the marked electrical equipment conforms with the applicable requirements set out in the Community harmonization legislation (EU Directives), which allows such equipment to carry this mark.

The original intention of this mark was to support the authorities in the EU member states in their market supervision, with the mark acting as a symbol of free movement of products within the EU. According to EC Directive 765/2008, a product can only be given the CE mark if the product requirements are defined in at least one appropriate EU directive. Examples of such directives are the Low Voltage Directive, the EMC Directive, the ATEX Directive, the Building Products Directive and the Machinery Directive. If more than one directive applies to a product, the product must comply with **all applicable directives**.

Only the basic requirements for achieving the defined aim of the directive are laid out in each respective directive. The individual technical details are specified according to the New Approach using lists with cross references to applicable standards (so-called harmonized standards).

1. Low Voltage Directive (LVD)

The safety of electrical equipment is guaranteed by the Low Voltage Directive (LVD). The LVD covers all electrical equipment operating with a voltage between 50 VAC and 1000 VAC and between 75 VDC and 1500 VDC.

Products falling within the scope of the Low Voltage Directive that are designed in such a way that they can be used in other electrical devices, and whose safety, for the most part, is dependant on how these components were built into the end product and what features the end product has, are defined as basic components in accordance with the Low Voltage Directive.

The LVD doesn’t apply to basic components.

The RoHS Directive also applies to electrical equipment covered by the Low Voltage Directive. This directive regulates the use of hazardous substances in electrical devices and components, with the aim of reducing the quantity of problematic components in electrical waste. Details about the materials used by WAGO are available in our catalogs, on our product packaging and on our Web page.

2. EMC Directive

The EMC Directive stipulates that a product must meet the limits on radiated electromagnetic disturbance and also requires that a product must be immune to electromagnetic interference.

Electromagnetic passive components or components with no direct function, such as terminal blocks, resistors, diodes, capacitors, switching relays or cables (in the form of passive printed circuit boards) are not considered as apparatus within the meaning of the EMC Directive.

3. ATEX Directive on Explosion Protection

The ATEX Directive defines the rules for products (devices and protective systems) intended for use in hazardous locations. A number of products from WAGO are designed for use in hazardous areas.

Based on potential hazards, the ATEX Directive makes a distinction between three different equipment groups, of which Group II and III are subdivided into further zones. Suitability of WAGO products for the different groups and zones is outlined in the specific product documents (catalogs, Internet site, data sheets and product inserts).

These may be either devices that can be used as equipment in these types of areas, or components that are required for safe operation, but which do not fulfill a dedicated function. Such components include rail-mount terminal blocks for use in hazardous areas.

Products in both groups must comply with the ATEX Directive.

4. Radio Communications Directive

The Radio Communications Directive applies to all devices that properly transmit or receive radio waves for wireless communications and/or radio orientation. The basic safety requirements apply to the protection of health for humans and animals and to electrical safety in line with the Low Voltage Directive, but without the application of the voltage limit. In addition, the EMC protection goals of the EMC Directive must also be fulfilled and efficient use of radio frequencies ensured. WAGO products covered by the Radio Communications Directive indicate, in compliance with applicable laws, only the Radio Communication Directive in their EU Declaration of Conformity, as fulfillment of the Low Voltage Directive and of the EMC Directive is implicit in this declaration.

5. Construction Products Regulation

The Construction Products Regulation demands that structures be designed and constructed such that the safety of humans, property and animals is not endangered and that all applicable environmental protection requirements be considered. Here, building products are defined as products or construction sets which are produced to be built permanently into structures and which make a significant contribution to fulfilling the basic requirements for the structure.

In the unanimous opinion expressed by the German electrical industry, including WAGO GmbH & Co. KG, products used in general installation technology are not included among these types of building products and are therefore not covered by this directive.

6. Machinery Directive

The Machinery Directive applies to machines (complete or incomplete) which perform their functions by means other than direct human or animal work, or safety components for these types of machines.

Therefore, this directive usually does not apply to WAGO products.

The manufacturers of machines or systems are required by this directive to use safe products and components in their machines and systems. Directive-compliant production and safe operation is facilitated by the use of WAGO products, with their standard-compliant, up-to-date design.

Significance of CE Mark for WAGO Products

One, several or none of the EU Directives may apply to the various WAGO products. If none of the directives apply, the CE marking will not be affixed to the product, in line with applicable laws. Furthermore, a declaration of conformity must not be issued. All other products are provided with the CE mark – either directly on the product, on its packaging or in the documents included with the product – and a declaration of conformity is issued, or made accessible to the customer.

The data sheets of the technically sound products that, according to the regulations, are not CE marked will refer to the standards used in the development and type and manufacturing testing wherever possible.

IEC/EN specifications

The following standards apply to the design and application of the terminal blocks and connectors contained in this catalog:

IEC 60364-1
HD 60364-1
VDE 0100-100
/ Erection of power installations with nominal voltages up to 1000 V
– Part 1: Fundamental principles, assessment of general characteristics, definitions

IEC 60364-7-710
HD 60364-7-710
VDE 0100-710
/– Part 7-718: Requirements for special installations or locations
– Medical areas

IEC 60364-7-718
HC 60364-7-718
VDE 0100-718
/– Part 7-718: Requirements for special installations or locations
– Communal facilities and workplaces

EN 50110-1
VDE 0105-1
/ Operation of electrical installations
– Part 1: General requirements

IEC 60664-1
EN 60664-1
VDE 0110-1
/ Insulation coordination for equipment within low-voltage systems
– Part 1: Principles, requirements and tests

IEC 60204-1
EN 60204-1
VDE 0113-1
/ Safety of machinery – Electrical equipment of machines
– Part 1: General requirements

IEC 61140
EN 61140
VDE 0140-1
/ Protection against electric shock
– Common aspects for installation and equipment

IEC 60079-0
EN 60079-0
VDE 0170-1
/ Harzardous areas
– Part 0: Equipment
– General requirements

IEC 60079-7
EN 60079-7
VDE 0170-6
/ Explosive atmospheres
– Part 7: Equipment protection by increased safety “e”

IEC 60079-11
EN 60079-11
VDE 0170-7
/ Harzardous areas
– Part 11: Equipment protection by intrinsic safety “i”

IEC 60079-14
EN 60079-14
VDE 0165-1
/ Harzardous areas
– Part 14: Electrical installations design, selection and erection

IEC 60079-15
EN 60079-15
VDE 0170-16
/ Explosive atmospheres
– Part 15: Equipment protection by type of protection “n”

EN 50628
VDE 0118-10
/ Installation of electrical equipment in mines

IEC 60038
EN 60038
VDE 0175-1
/ IEC CENELEC standard voltages

VDE 0298-4
/ Use of cables and insulated conductors in power installations
– Part 4: Recommended values for current carrying capacities of cables for fixed installation and for flexible cables

IEC 60112
EN 60112
VDE 0303-11
/ Method for determining the comparative and the proof tracking indices of solid insulation materials

IEC 60529
EN 60529
VDE 0470-1
/ Degrees of protection provided by enclosures (IP Code)
– Testing equipment and testing method

IEC 61439-1
EN 61439-1
VDE 0660-600-1
/ Low-voltage switchgear and control-gear assemblies
– Part 1: General rules

IEC 61439-3
EN 61439-3
VDE 0660-600-3
/– Low-voltage switchgear and control-gear assemblies
– Part 3: Distribution boards intended to be operated by ordinary persons (DBO)

IEC 61643-11
EN 61643-11
VDE 0675-6-11
/ Low-voltage surge protective devices
– Part 11: Surge protective devices connected to low-voltage power systems
– Requirements and test methods

IEC 60335-1
EN 60335-1
VDE 0700-1
/ Safety of household and similar electrical appliances
– Part 1: General requirements

IEC 60598-1
EN 60598-1
VDE 0711-1
/ Lighting fixtures
– Part 1: General requirements and tests

IEC 60715
EN 60715
/– Standardized mounting on rails for mechanical support of electrical devices in switchgear and control-gear installations

IEC 60999-1
EN 60999-1
VDE 0609-1
/ Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units
– Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm² up to 35 mm²

IEC 60999-2
EN 60999-2
VDE 0609-101
/– Part 2: General requirements and particular requirements for clamping units for conductors from 35 mm² up to 300 mm² (included)

IEC 60998-1
EN 60998-1
VDE 0613-1
/ Connecting devices for low-voltage circuits for household and similar purposes
– Part 1: General requirements

IEC 60998-2-1
EN 60998-2-1
VDE 0613-2-1
/– Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

IEC 60998-2-2
EN 60998-2-2
VDE 0613-2-2
/– Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

IEC 60998-2-3
EN 60998-2-3
VDE 0613-2-3
/– Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

IEC 60947-1
EN 60947-1
VDE 0660-100
/ Low-voltage switchgear and controlgear
– Part 1: General rules

IEC 60947-7-1
EN 60947-7-1
VDE 0611-1
/– Part 7-1: Ancillary equipment
– Terminal blocks for copper conductors

IEC 60947-7-2
EN 60947-7-2
VDE 0611-3
/- Part 7-2: Ancillary equipment
– Ground conductor terminal blocks for copper conductors

IEC 60947-7-3
EN 60947-7-3
VDE 0611-6
/– Part 7-3: Ancillary equipment
– Safety requirements for fuse terminal blocks

VDE 0611-4
/ Rail-mount terminal blocks for connection of copper conductors;
– Multi-level distribution rail-mount terminal blocks up to 6 mm²

IEC 61984
EN 61984
VDE 0627
/ Connectors – Safety requirements and tests

Tests and Testing Procedures per IEC/EN Standards

Products such as connecting devices, rail-mount terminal blocks and connectors, etc., have their own product-specific test specifications. The following sections describe the most important tests and are limited to a description of the test procedures and an explanation of the test purpose. The data shown (e.g., voltages, temperatures, forces) only serve as illustration and may differ depending on the test.

Mechanical Tests

All WAGO products meet requirements for the following mechanical tests:

- Termination Requirements

Conductor Termination
Two WAGO connection systems are proven in the field of Spring Pressure Connection Technology:
The **PUSH WIRE® connection** for applications requiring solid conductors (e.g., for lighting and building wiring, telecommunications, house communication or alarm systems).
Conductor range:
0.2 … 4 mm² / 24 … 12 AWG
The **universal CAGE CLAMP® spring pressure connection system** for solid, stranded and fine-stranded conductors, designed for a variety of industrial, electrical and electronic applications (e.g., fine-stranded conductors in the elevator industry, in power stations, in the chemical and automotive industry, and aboard ships).
Conductor range:
0.08 … 35 mm² (28 … 2 AWG)

The **Push-in CAGE CLAMP® connection** takes universal CAGE CLAMP® connections further by allowing the termination of 0.2 … 16 mm² (24 … 6 AWG) solid, stranded and fine-stranded conductors (25 mm²/4 AWG only "f-st") and offering all the benefits and safety of the original CAGE CLAMP®. Furthermore, the Push-in CAGE CLAMP® connection technology allows solid, stranded and fine-stranded conductors with ferrules from 0.5 to 16 mm² (20 … 6 AWG) to be terminated by simply pushing them in.

The conductor entry hole is perfectly suited for the insulation diameter of the rated conductor cross section, thus providing good conductor guidance.

This is particularly important for vibration-prone applications.
Fine-stranded conductors of a small or very small size are highly flexible, and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all.
In order to prevent conductor insulation from being inserted into the clamp, insulation stops are available for WAGO rail-mount terminal blocks up to 4 mm² (12 AWG), even providing protection for 0.08 mm² (28 AWG) conductors.

Rated Cross Sections and Connectable Conductors
I. Per IEC 60999-1 / EN 60999-1 / VDE 0609-1, Table 1:

Rated Cross Section	Theoretical Largest Conductor Diameter							Connectable Conductor	
	Metric			AWG					
	Rigid		Flexible	Rigid			Flexible	Rigid	Flexible
	Solid	Stranded			[b] Solid	[b] Class B Stranded	[c] Class I, K, M Stranded	To be defined in the corresponding product standard	
mm²	mm	mm	mm	Conductor Size	mm	mm	mm		
0.2	0.51	0.53	0.61	24	0.54	0.61	0.64		
0.34	0.63	0.66	0.8	22	0.68	0.71	0.8		
0.5	0.9	1.1	1.1	20	0.85	0.97	1.02		
0.75	1	1.2	1.3	18	1.07	1.23	1.28		
1	1.2	1.4	1.5	–	–	–	–		
1.5	1.5	1.7	1.8	16	1.35	1.55	1.6		
2.5	1.9	2.2	2.3[a]	14	1.71	1.95	2.08		
4	2.4	2.7	2.9[a]	12	2.15	2.45	2.7		
6	2.9	3.3	3.9[a]	10	2.72	3.09	3.36		
10	3.7	4.2	5.1	8	3.34	3.89	4.32		
16	4.6	5.3	6.3	6	4.32	4.91	5.73		
25	–	6.6	7.8	4	5.45	6.18	7.26		
35	–	7.9	9.2	2	6.87	7.78	9.02		

NOTE: The diameters of the largest rigid and flexible conductors are based on Table 1 of IEC 60228 A/IEC 60344 and on ASTM B172-71 [4], IECA Publication S-19-81 [5], IECA Publication S-66-524 [6], as well as IECA Publication S-66-516 [7] for AWG conductors.
[a] Dimensions for Class 5 flexible conductors only (IEC 60228 A)
[b] Nominal diameter +5%
[c] Largest diameter for conductors of classes I, K, M + 5%
In practical use, the conductor cross sections are approximately 5% below the values stated in the table!

The IEC 60999-1/EN 60999-1/VDE 0609-1 Specification (Section 7.1) requires that:

Clamping units must be able to connect unprepared conductors.

Under normal operating conditions, direct clamping (i.e., directly connecting a conductor to the terminal block's current bar) provides optimal contact quality, because all risk factors arising from anti-splaying methods are prevented.

Occasionally, conductor anti-splaying protection may be required, including various methods (see illustrations below).

Special requirements apply only in special application areas exposed to extremely corrosive atmospheres.

In this case, we recommend using either solid copper conductors or fine-stranded copper conductors with properly crimped, tin-coated copper ferrules or copper pin terminals.

II. Per IEC 60999-2, Table 1:

Rated Cross-Section	Theoretical Largest Conductor Diameter					Connectable Conductor	
	Metric		AWG/kcmil				
	Rigid Stranded	Fine-Stranded [a)]	Gauge	Rigid Stranded	Fine-Stranded		
mm²	mm	mm		mm	mm	Rigid	Flexible
50	9.1	11	1/0	9.64	12.08	To be defined in the corresponding product standard	
70	11	13.1	2/0	11.17	13.54		
95	12.9	15.1	3/0	12.54	15.33		
–	–	–	4/0	14.08	17.22		
120	14.5	17	250	15.34	19.01		
150	16.2	19	300	16.8	20.48		
185	18	21	350	18.16	22.05		
–	–	–	400	19.42	24.05		
240	20.6	24	500	21.68	26.57		
300	23.1	27	600	23.82	30.03		
Dimensions for Class 5 flexible conductors only (IEC 60228 A)							
NOTE: The diameters of the largest rigid and flexible conductors are based on Table 1 and Table 3 of IEC 3 A/IEC 60228 and on ASTM B172-71 [1], IECA Publication S-19-81 [2], IECA Publication S-66-524 [3], as well as IECA Publication S-66-516 [7] for AWG conductors.							



Tip-bonded conductor



Tin-plated copper ferrule (gas-tight crimped)



Ultrasonically bonded conductor



Crimped pin terminal (gas-tight), preferably made of copper with a tin-plated surface

Anti-splaying methods require a terminal block one size larger than the nominal cross section of the conductor to be terminated. Ferruled conductor cross sections specified for individual products are based on WAGO's Variocrimp square crimping technology. Gas-tight, crimped twin ferrules may be used, provided the ferrule is inserted all the way into the clamping unit and that there is a sufficient clearance and creepage distance between adjacent potentials.

As with solid copper conductors, the fine strands are crimped into a dense inner core. Crimping prevents ingress of aggressive atmospheres (depending on the ppm concentration), which can diffuse into the conductor bundle along the individual strands and deposit between individual strands and the clamping point.

One Conductor per Clamping Unit

A number of DIN VDE, EN, IEC directives mandate or recommend that only one conductor must be connected per clamping unit.

In accordance with DIN VDE 0611, Part 4, 02.91, Section 3.1.9, multi-level distribution rail-mount terminal blocks must be dimensioned so that a single (solid, stranded or fine-stranded) conductor of the nominal cross section can be connected at each terminal point.

Other VDE, EN and IEC specifications also recommend the connection of only one conductor per clamping unit, unless the clamping unit is specifically tested and approved for the connection of several conductors, for example:
VDE 0609, Part 1, 12.00 / EN 60999-1:2000/ IEC 60999-1:1999, Section 7.1
VDE 0660, Part 600, 06.12 / EN 61439-1:2011 / IEC 61439-1, Section 8.6.3
VDE 0113, Part 1, 06.07 / EN 60204-1:2006 / IEC 60204-1:2016, Section 13.1.1.
One conductor per clamping unit is therefore recommended to meet the safety requirements of these relevant specifications. This WAGO principle is the basis for a number of other technical and economic advantages:

- Each conductor may be terminated or removed without affecting previously connected conductors.
- Where re-wiring is required, only the conductor to be changed is removed from the clamping point, all other conductors remain safely clamped.
- Each conductor is clamped independently.
- Any conductor size combination can be connected.

WAGO rail-mount terminal blocks offer different solutions to increase the number of clamping points.
The most common way is by branching one conductor into two or three conductors. WAGO offers 3- and 4-conductor terminal blocks, making additional jumpers unnecessary.

Tests and Testing Procedures per IEC/EN Standards (continued)
Mechanical Tests (continued)

- Pull-Out Test per IEC/EN 60947-7-1, IEC/EN 60998-2-2, IEC/EN 60999-1

The pull-out test simulates the mechanical stress on the clamping unit when, for example, the installer pushes the conductor aside to better access/operate the adjacent clamping unit, or verifies if the conductor is connected properly by briefly pulling on it.
During the test, a pulling force is applied without jerking, for one minute, to the connected conductor. The pulling force is selected according to the cross-sectional area. The larger the cross section of the conductor, the higher the pull-out force that is selected. For example, the pulling force is 40 N for a conductor having a cross section of 1.5 mm² (16 AWG) and 100 N for a conductor with a cross section of 16 mm² (6 AWG). The values specified by these standards are the same for both screw clamp and spring clamp terminal blocks. During the test, the conductor must neither slip out of the clamping unit, nor break near the clamping unit.

Conductor Pull-Out Forces
The clamping units of screwless terminal blocks must withstand the pull-out forces as follows:
IEC 60947-1/EN 60947-1/VDE 0660-100, Table 5:
Low-voltage switchgear and controlgear, General rules

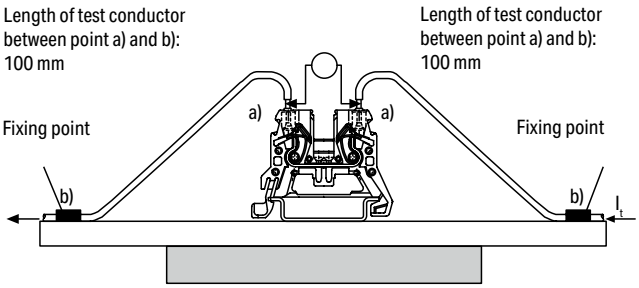
IEC 60947-7-1/EN 60947-7-1/
VDE 0611-1, Rail-mount terminal blocks for copper conductors

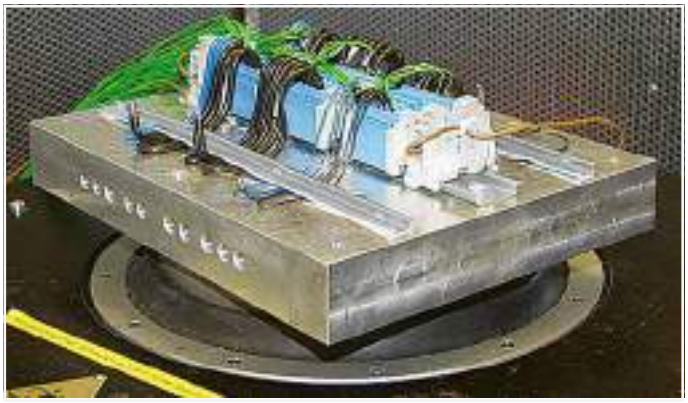
IEC 60998-2-1/EN 60998-2-1/
VDE 0613-2-1, Table 104:
IEC 60998-2-2/ EN 60998-2-2
VDE 0613-2-2, Table 103:
Connecting devices for low-voltage circuits for household and similar purposes
Particular requirements for connecting devices as separate entities with screw-clamp or screwless terminal blocks.
IEC 60999-1/EN 60999-1/VDE 0609-1, Table 3:
IEC 60999-2/EN 60999-2/VDE 0609-101, Table 2:
Safety requirements for screw-clamp and screwless clamping units for electrical copper conductors

Rated Cross-Section		Pull-Out Forces per IEC/EN		
		60947-7-1	60998-2-2	60999-1/-2
mm²	AWG/kcmil	N	N	N
0.2 0.34	24 22	10 15	10 15	10 15
0.5 0.75	20 18	20 30	20 30	20 30
1 1.5	– 16	35 40	35 40	35 40
2.5 4	14 12	50 60	50 60	50 60
6 10	10 8	80 90	80 90	80 90
16 25	6 4	100 135	100 135	100 135
– 35	3 2	156 190	190	190
– 50	1 1/0	236 236		236
70 95	2/0 3/0	285 351		285 351
– 120	4/0 250	427 427		427 427
150 185	300 350	427 503		427 503
– 240	400 500	503 578		503 578
300	600	578		578

- Shock Test per IEC/EN 60068-2-27; IEC/EN 61373 (Railway Applications)

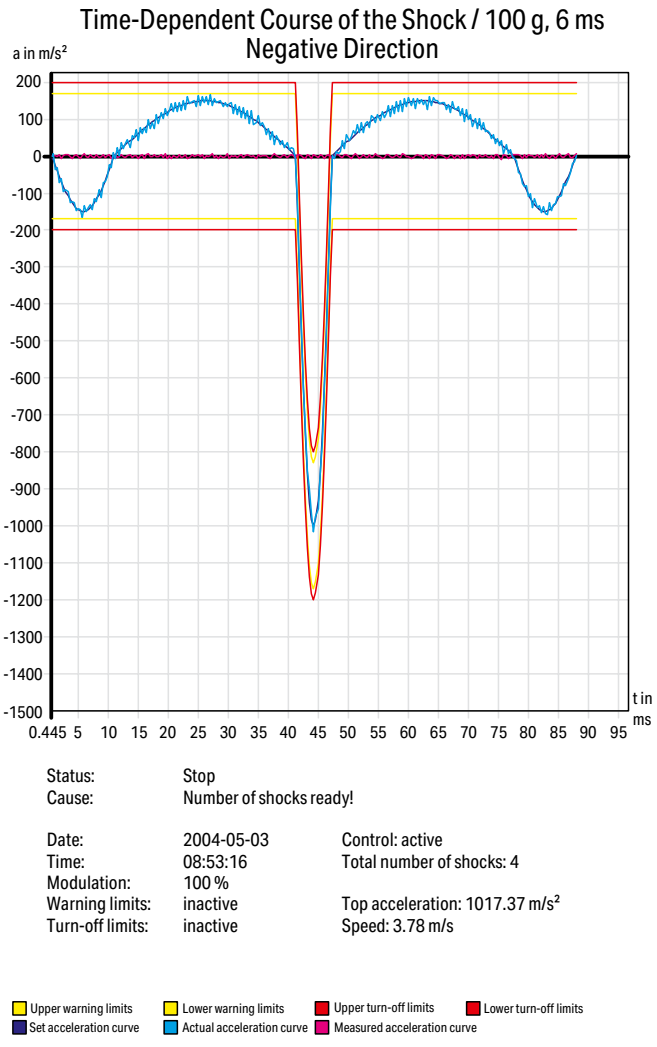
The shock test is similar to the vibration test except that, instead of continuous vibrations, single shocks are applied to the specimen. Shock tests are usually performed with an acceleration of 20g, for example, over a period of 11 ms. Tests for special requirements often call for much higher values.
Like the vibration tests, shock tests are primarily used to test the voltage drop variation or contact breaks, etc.

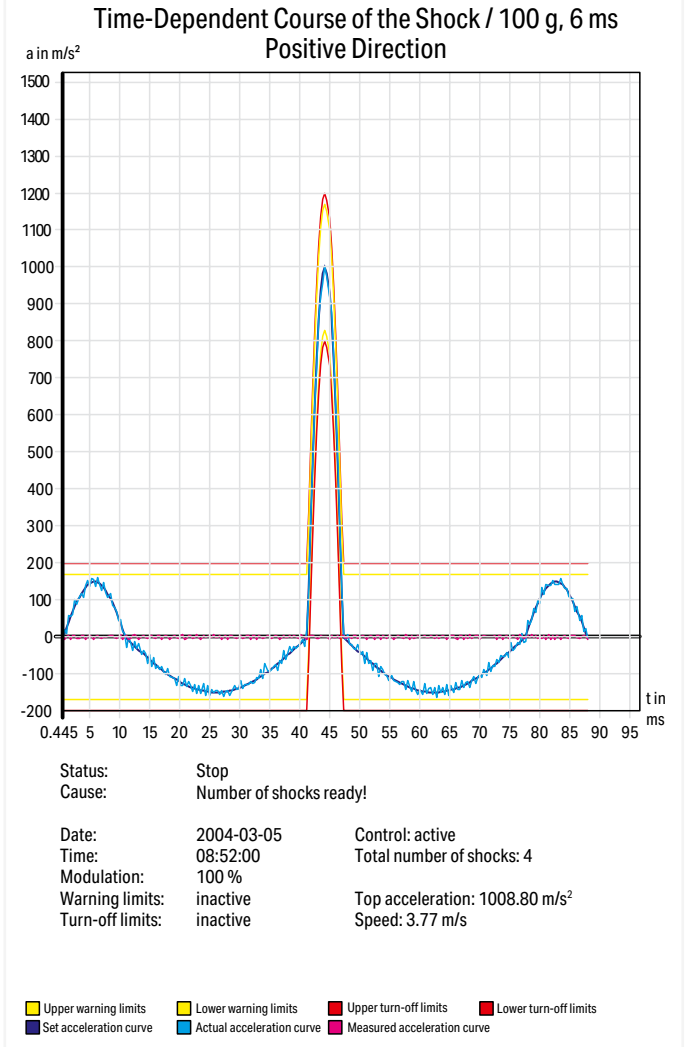




Example: Shock requirement

per IEC/EN 60068-2-27 (half-sine shock)
100g acceleration, 6 ms duration
Shock direction: 3 axes (3 shocks each in positive and negative direction)





Tests and Testing Procedures per IEC/EN Standards (continued)
Mechanical Tests

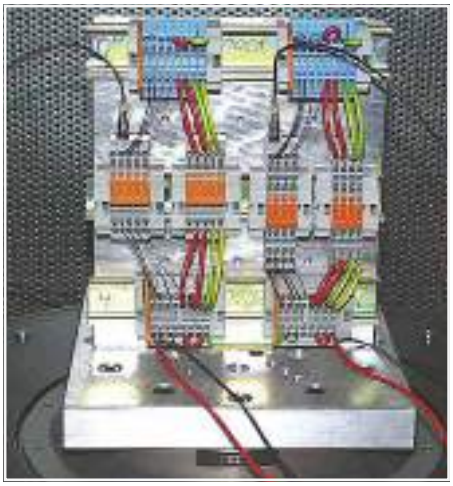
- Vibration Test per IEC/EN 60068-2-6; DNV GL, LR (Marine Applications); EN 61373 (Railway Applications)

The vibration test determines whether vibrations, such as those produced in the vicinity of machines or in vehicles, will permanently affect the electrical connection, or if contact breaks will occur during vibrations. Using a vibration table, the test specimen is subjected to vibration in each of the X, Y and Z axes (see pictures).
The amplitude, acceleration and, in particular, the frequency of the vibration must vary during the test.

In a common test procedure, for example, a wide frequency band is continuously run up to 2000 Hz, at different accelerations up to 20g and different amplitudes up to 20 mm. Test duration is 90 minutes per axis.



Other test types are performed using a single fixed frequency. The exact test procedure may vary considerably, depending on how the product will be used. Some test specifications require the determination of possible resonant frequencies, i.e., determining if resonance occurs within the frequency spectrum to be passed through. Analyzing the specimen behavior under the influence of resonant frequencies is performed using a special testing procedure.



Beyond these standard procedures, each market segment performs additional testing. Examples include railway authorities testing rolling electrical equipment, or the testing performed multiple marine agencies (e.g., DNV GL Group, Lloyd's Register of Shipping). Though the requirements of such testing procedures are particularly demanding, test arrangements are identical for all of them. During vibrations, possible contact breaks are monitored on an oscilloscope. Voltage drop is measured before and after the test to detect permanent failures, i.e., checking if electrical resistance at the clamping unit has not increased beyond the permissible limit. The smaller this value is, the smaller the contact resistance of the clamping unit.

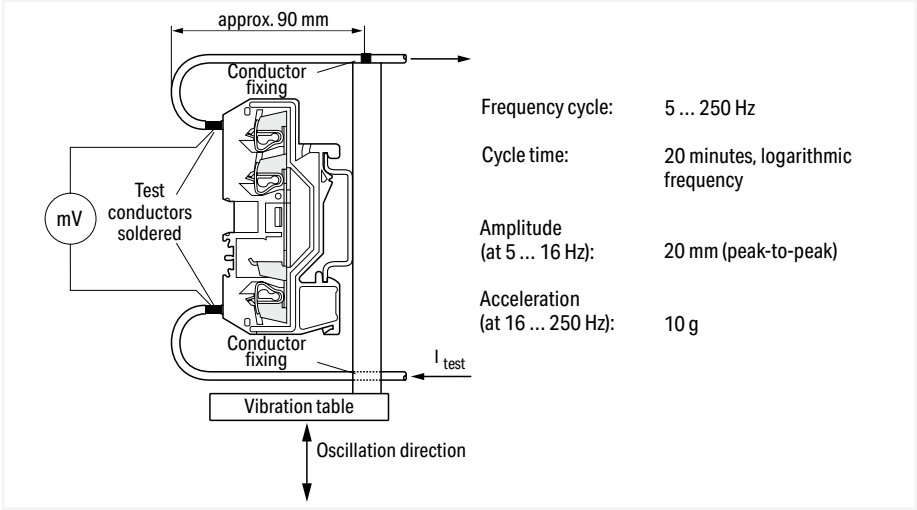


The test is passed if:
- the conductor has neither slipped out of the terminal block nor been damaged
- the maximum permissible voltage drop has not been exceeded
- and neither contact breaks have occurred nor a defined break time has been exceeded.

The test specimen must not be damaged in any way that might affect future use.

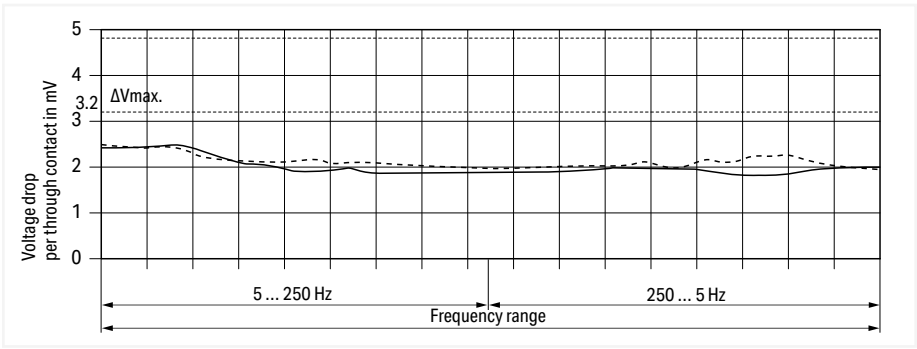
Since their inception, both CAGE CLAMP® and Push-in CAGE CLAMP® connections have been routinely tested for their resistance to vibration in connection with approval tests.

Additionally, WAGO conducts special self-resonance behavior tests on clamping systems, using different terminal block and conductor arrangements.
In these tests, a wide frequency band is continuously run up to 2000 Hz, at different accelerations up to 20g and different amplitudes up to 20 mm. The figure provides an example of a self-resonance vibration test configuration.



Self-resonance vibration test set-up

All WAGO spring clamp connections meet these test requirements.



Frequency cycle

Rail-mount terminal block: Item no. 280-681
Test current: 1/10 I_N = 2,4 A

---------- Test specimen no. 1
- - - - - - - - - Test specimen no. 2

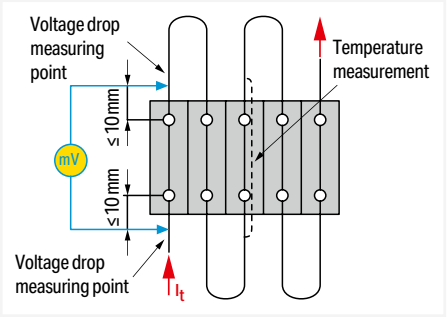
Tests and Testing Procedures per IEC/EN Standards (continued)

Electrical Tests

All WAGO products meet requirements for the following electrical tests:

- Temperature-Rise Test per IEC/EN 60947-7-1

The temperature-rise test examines the clamping unit – including the surrounding insulation – at rated current, over-current and short-circuit current levels.
Unless otherwise specified in the related equipment specification, e.g., by specifying the nominal currents of the equipment, terminal blocks and connectors are tested with current loads as specified in the respective construction specification.
For rail-mount terminal blocks complying with IEC 60947-7-1/EN 60947-7-1/VDE 0611-1, or terminal blocks complying with IEC 60998-1/EN 60998-1/ VDE 0613-1, the temperature rise must not exceed 45 Kelvin.



Test arrangement: "Temperature-Rise Test"

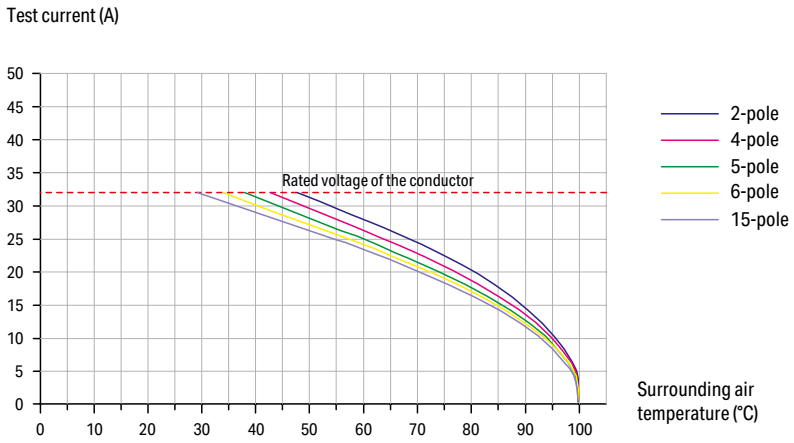
Rated Cross-Section	Test Current per IEC/EN	
	60947-7-1 Table 4	60998-1 Table 2
mm²	A	A
0.2 0.34	4 5	4 5
0.5 0.75	6 9	6 9
1 1.5	13.5 17.5	13.5 17.5
2.5 4	24 32	24 32
6 10	41 57	41 57
16 25	76 101	76 101
35 –	125	125
50 70	150 192	
95 –	232	
120 150	269 309	
185 240	353 415	
300	520	

Conductor Size	Test Current per IEC/EN
	60947-7-1 Table 5
AWG/kcmil	A
24 22	4 6
20 18	8 10
– 16	 16
14 12	22 29
10 8	38 50
6 4	67 90
2 1	121 139
1/0 2/0	162 185
3/0 4/0	217 242
250 kcmil 300 kcmil	271 309
350 kcmil 500 kcmil	353 415
600 kcmil	520

• Current-Carrying Capacity Curve per IEC/EN 60512-5-2

Both the design requirements and the current-carrying capacity of a connector must be checked by the user when selecting connectors. This data depends on the following factors: connected conductor cross section, surrounding air temperature, number of simultaneously loaded poles, connector's internal resistance, as well as PCB layout and connector materials if required. In accordance with IEC/EN 60512-5-2, the relationship between current, surrounding air temperature and temperature rise up to the connector's upper temperature limit is illustrated via current-carrying capacity curve. The connector must only be operated up to this temperature limit (sum of the self-generated heat and the surrounding air temperature) without being damaged or destroyed during operation.

Functioning of a current-carrying capacity curve per EN 60512-5-2 is shown by an application using a current-carrying capacity curve for the X-COM®-SYSTEM:
This application requires each pole of a 4-pole connector be subjected to a load of 32 A. Based on the basic curve determined for this pole number with a conductor cross section of 4 mm², it has been determined the maximum surrounding air temperature is 42°C (107.6°F). The current must be reduced at higher surrounding air temperatures, e.g., to 19 A at an surrounding air temperature of 80°C (176°F).





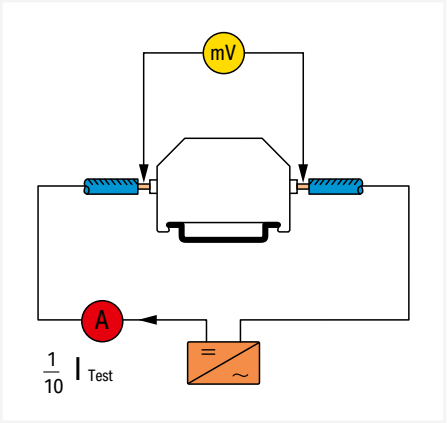
1-conductor/1-pin carrier terminal block (769-176)
Conductor cross section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

- Voltage Drop Test per IEC/EN 60947-7-1

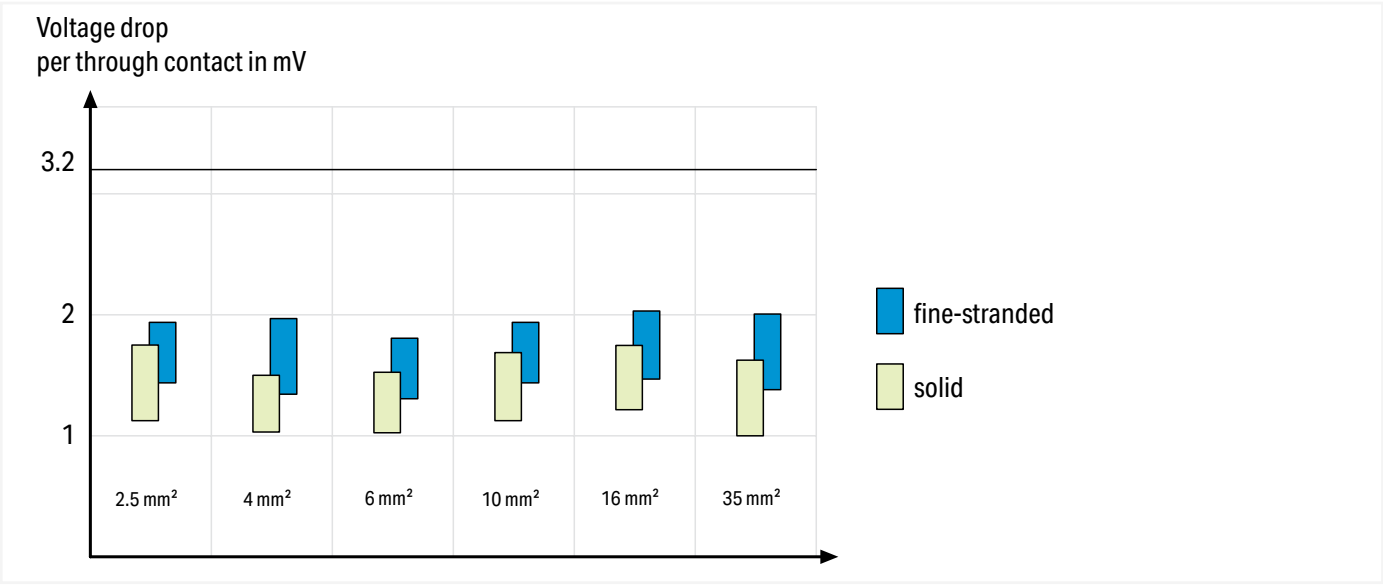
The voltage drop test evaluates clamping point quality under stress such as vibration, temperature change, industrial climate and salt spray, in order to verify that the contact point is gas-tight.



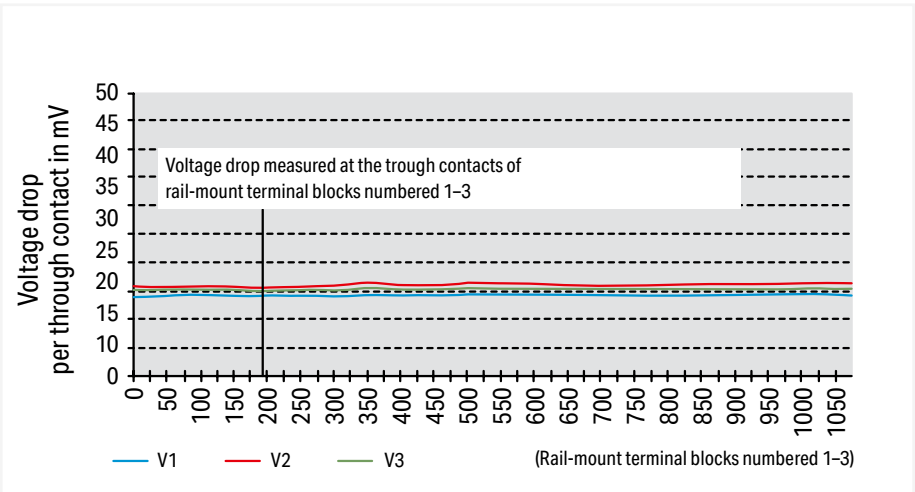
Test arrangement: "Voltage Drop Test"

The CAGE CLAMP® and Push-in CAGE CLAMP® connections enclose and contain fine-stranded conductors. Therefore, a variation of the voltage drop with solid and fine-stranded conductors is so small that its influence may be negligible for the practical application of the terminal blocks.

Typical voltage drop variations for solid and fine-stranded conductors of 280 to 285 Series CAGE CLAMP® Rail-Mount terminal Blocks:



Example: Current load cycling test result for rail-mount terminal blocks (item no. 285-195) using 95 mm² (4/0 AWG) fine-stranded copper conductors:

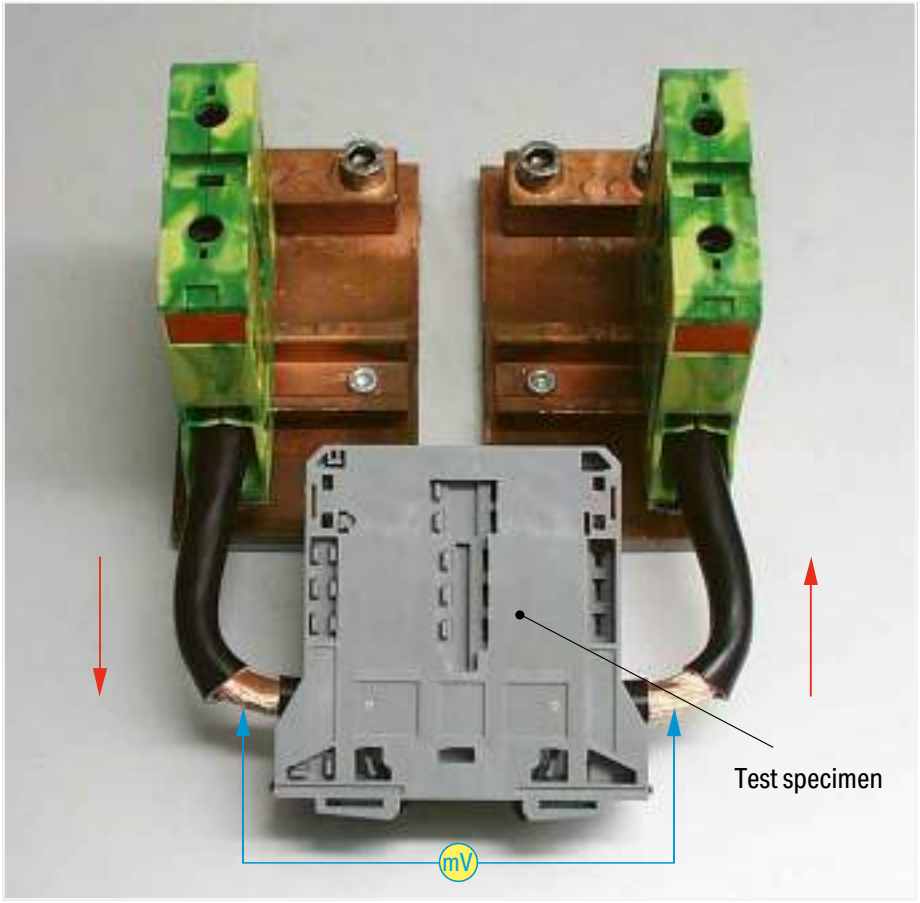


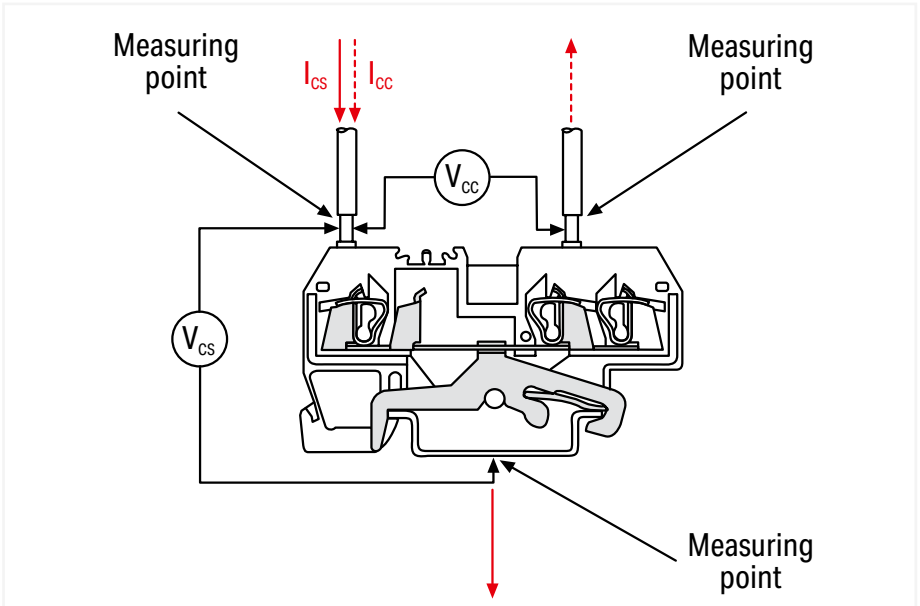
Voltage drop variation over longer periods under current load cycling conditions is shown for WAGO 285-195 (95 mm²/4/0 AWG) Rail-Mount Terminal Blocks using solid copper conductors. The diagram shows that the voltage drop is constant, far beyond the 192 cycles required in IEC 60947-7-1.

(The voltage drop was determined at the rated current.)

- Short-Time Withstand Current Test (Short-Circuit Withstand Capacity) per IEC/EN 60947-7-1

Apart from the rated current that can be constantly applied to an electrical device, operation-related short peak currents consistently occur in electrical installations, e.g., when motors are started. Also, in the event of a short circuit, a high current can flow for a short time until the fuse element melts. Terminal blocks and connecting devices must be able to withstand such conditions. For example, in the short-time withstand current test per IEC/EN 60947-7-1, a through rail-mount terminal blocks must be capable of withstanding for one second the rated short-time withstand current which corresponds to 120 A/mm² of its nominal cross section.





During the short-time withstand current test, the ground conductor rail-mount terminal blocks are subjected three times for one second each to a current load of 120 A/mm². The pass criterion for the test is the voltage drop (limiting value and constant measured values).

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

- Insulation Parameters per IEC/EN 60664-1

Clearances and Creepage Distances
The following generally applies:
The equipment specification contains data for the measurement of clearances and creepage distances, or refers to the data contained in the new revised edition of the basic standard DIN EN 60664-1/VDE 0110-1. This standard contains new clearances and creepage distances in compliance with insulation coordination requirements. That is, the insulation parameters of equipment are assigned to:
- the anticipated surge voltages
- the parameters of the protection device against impulse voltage
- the anticipated environmental conditions and the protection measures against pollution.

This standard is based on IEC 60604-1.

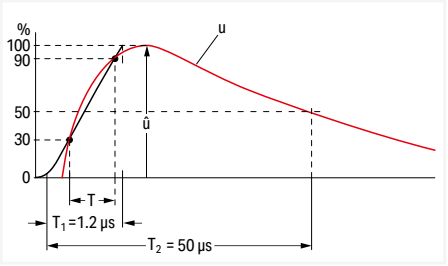
Overvoltage Categories for Electrical Equipment:
A specific overvoltage category must be defined on the basis of the following, general description:
- Equipment in **overvoltage category I** is intended to be connected to the fixed electrical installations of buildings. Protective means are taken outside the equipment – either in the fixed installation or between the fixed installation and the equipment – to limit transient overvoltages to the specific level.
- Equipment in **overvoltage category II** is to be connected to the fixed electrical installations of buildings.
  Note: Examples of such equipment are household appliances, portable tools and similar loads.
- Equipment in **overvoltage category III** is part of the fixed electrical installations and other equipment where a higher degree of availability is expected.
  Note: Examples of such equipment are distribution boards, circuit breakers, wiring systems (IEV 826-16-08, including cables, bus bars, junction boxes, switches, socket outlets) in the fixed installation and equipment for industrial use and other equipment, e.g., stationary motors with permanent connection to the fixed installation.
- Equipment in **overvoltage category IV** is for use in or near the feed-in of electrical building installations upstream of the main distribution board in the direction of the network.
  Note: Examples include electricity meters, primary overcurrent protection devices and ripple control units.

Clearances, Rated Surge Voltages, Overvoltage Categories, Pollution Degrees

Surge voltages (Table 1) are a decisive factor in determining clearances.

The basis forms the **overvoltage category**, i.e., the allocation of the equipment to the expected overvoltage, and the **conductor-ground voltage** derived from the nominal mains voltage in installations with a grounded Y (star) point.

In ungrounded installations, or installations where the conductor is not grounded, the voltage between conductors is applicable in the same way as conductor voltage to ground.



Voltage pulse: 1.2/50 µs per EN 60060-1/VDE 0432-1

The rated surge voltage must be selected from Table F.1 corresponding to the overvoltage category specified and to the rated voltage of the equipment.
Table F.1 – Rated Surge Voltage for Equipment Energized Directly from the Low-Voltage Mains (DIN EN 60664-1/VDE 0110-1)
Voltage Curve: 1.2/50 µs per IEC 60060-1/VDE 0432-1

Nominal voltage of the power supply system[1] (mains) per IEC 60038[3]		Conductor-to-neutral voltage, derived from the nominal AC or DC voltage up to and including:	Rated surge voltage[2] Overvoltage category[4]			
Three-phase V	Single-phase V	V	I V	II V	III V	IV V
		50	330	500	800	1500
		100	500	800	1500	2500
	120 … 240	150[5]	800	1500	2500	4000
230 / 400 277 / 480		300	1500	2500	4000	6000
400 690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

[1] See Annex B for application to existing different low-voltage mains and their nominal voltages.
[2] Equipment with these rated impulse voltage levels can be used in installations complying with IEC 60364-4-443.
[3] The / mark indicates a 3-phase, 4-conductor system. The lower value is the conductor-to-neutral voltage, while the higher value is the conductor-to-conductor voltage. Where only one value is indicated, it refers to 3-phase, 3-conductor systems and specifies the conductor-to-conductor voltage.
[4] See 4.3.3.2.2 for an explanation of the overvoltage categories.
[5] The nominal voltages for single-phase systems in Japan are 100 V or 100 … 200 V. The value for the rated impulse voltage is, however, derived from the voltage gaps conductor-to-neutral for a voltage level of 150 V (see Annex B).

The nominal supply voltage and the corresponding rated impulse voltage values apply for grounded and ungrounded circuits.

Pollution Degrees

Pollution factors are all solid, liquid or gaseous foreign matter which may reduce the dielectric strength or the specific surface resistance. Factors are divided into four classes based on expected environmental conditions:

		Examples of pollution degrees for assigned areas:
Pollution degree 1:	No pollution, or only dry, non-conductive pollution occurs. Pollution has no influence.	Open, unprotected insulated equipment in air-conditioned or clean, dry rooms
Pollution degree 2:	Only non-conductive pollution occurs. Occasional, temporary conductivity caused by condensation can also be expected.	Open, unprotected insulated equipment in occupied areas, shops, laboratories, mechanical workshops and medical rooms.
Pollution degree 3:	Conductive pollution occurs, or dry, non-conductive pollution occurs which will become conductive due to condensation.	Open, unprotected insulated equipment in industrial, business and farming areas (e.g., unheated rooms, workshops and boiler rooms)
Pollution degree 4:	The pollution generates persistent conductivity caused by conductive dust, rain or wet conditions.	Open, unprotected insulated equipment for outdoor use

Dimensioning Clearances (DIN EN 60664-1/VDE 0110-1, Table F.2)

Select the minimum clearances in accordance with the rated surge voltages and pollution degrees. To maximize the operating life of the equipment, do not go below these minimum clearances.
Table F.2 contains a list of information for Case A, the inhomogeneous field and for Case B, the homogeneous field.
This involves an electric field with essentially constant (Case B) or non-constant (Case A) voltage gradients between the electrodes.
Equipment with a clearance that is dimensioned per Case A, in other words rated for the most unfavorable case, requires no verification by the impulse voltage test.
Equipment with a clearance that is dimensioned per Case B, or between A and B, requires verification by the impulse voltage test.

The clearances shown in Table F.2 are applicable for an installation height of up to 2000 m above sea level.

Values for clearances above 2000 m must be multiplied by a high correction factor in accordance with Table A.2.

Table F.2 – Clearances to Withstand Transient Overvoltages

DIN EN 60664-1/VDE 0110-1

Required Impulse Withstand Voltage[1)5)]	Minimum Clearances in Air up to 2000 m Above Sea Level					
	Case A Inhomogeneous Field (see 3.15)			Case B Homogeneous Field (see 3.14)		
	Pollution Degree[6]			Pollution Degree[6]		
	1	2	3	1	2	3
kV	mm	mm	mm	mm	mm	mm
0.33[2)]	0.01	0.2[3)4)]	0.8[4)]	0.01	0.2[3)4)]	0.8[4)]
0.4	0.02			0.02		
0.5[2)]	0.04			0.04		
0.6	0.06			0.06		
0.8[2)]	0.10			0.10		
1	0.15			0.15		
1.2	0.25	0.25		0.2		
1.5[2)]	0.5	0.5		0.3	0.3	
2	1	1	1	0.45	0.45	
2.5[2)]	1.5	1.5	1.5	0.6	0.6	
3	2	2	2	0.8	0.8	
4[2)]	3	3	3	1.2	1.2	1.2
5	4	4	4	1.5	1.5	1.5
6[2)]	5.5	5.5	5.5	2	2	2
8[2)]	8	8	8	3	3	3
10	11	11	11	3.5	3.5	3.5
12[2)]	14	14	14	4.5	4.5	4.5
15	18	18	18	5.5	5.5	5.5
20	25	25	25	8	8	8
25	33	33	33	10	10	10
30	40	40	40	12.5	12.5	12.5
40	60	60	60	17	17	17
50	75	75	75	22	22	22
60	90	90	90	27	27	27
80	130	130	130	35	35	35
100	170	170	170	45	45	45

[1)] This voltage is for:
- Functional insulation: the maximum impulse voltage expected to occur across the clearance (see 5.1.5)
- Basic insulation directly exposed to or significantly influenced by transient overvoltages from the low-voltage mains (see 4.3.3.3, 4.3.3.4.1 and 5.1.6): the rated impulse voltage for the equipment;
- Other basic insulation (see 4.3.3.4.2): the highest impulse voltage that can occur in the circuit
For reinforced insulation, see 5.1.6.

[2)] Preferred values specified in 4.2.3

[3)] For printed wiring material, the values for pollution degree 1 apply, except that the value must not be less than 0.04 mm, as specified in Table F.4.

[4)] The minimum clearances given for pollution degree 2 and 3 are based on the reduced withstand characteristics of the associated creepage distance under humidity conditions (see IEC 60664-5).

[5)] For parts or circuit within equipment subject to surge voltages based on 4.3.3.4.2, interpolation of values is allowed. However, standardization is achieved by using the preferred series of impulse voltage values based on 4.2.3.

[6)] The dimensions for pollution degree 4 are as specified for pollution degree 3, except that the minimum clearance is 1.6 mm.

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

- Insulation Parameters per IEC/EN 60664-1 (continued)

Creepage Distances, Rated Voltages, Material Groups

Criteria for dimensioning creepage distances are the rated voltages, pollution degrees and material groups.
The pollution degrees specified for the clearances, and its quoted allocation to locations, is also applicable for creepage distances.
Tables F.3 a and F.3 b of DIN EN 60664-1/ VDE 0110-1 contain the rated voltages that have to be considered for dimensioning the minimum creepage distances.

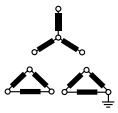
Altitude m	Standard Air Pressure (in kPa)	Multiplier for Clearances
2000	80	1
3000	70	1.14
4000	62	1.29
5000	54	1.48
6000	47	1.7
7000	41	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12	6.67
20000	5.5	14.5

Table F.3a – Single-Phase, 3- or 2-Conductor, AC or DC Systems

Nominal Voltage of the Power Supply System (Mains)*	Voltages for Table F.4	
	For insulation conductor-to-conductor[1)]	For insulation conductor-to-ground[1)]
	All systems	Three-conductor systems, center-point grounded 
V	V	V
12.5	12.5	
24 25	25	
30	32	
42 48 50**	50	
60	63	
30 to 60	63	32
100**	100	
110 120	125	
150**	160	
200	200	
110 to 200	200	100
220	250	
110 to 220 120 to 240	250	
300**	320	
220 to 440	500	250
600**	630	
480 to 960	1000	500
1000**	1000	

[1)] Conductor-to-ground insulation level for non-grounded or impedance-grounded systems equals that for conductor-to-conductor, as the operating voltage to ground of any conductor can, in practice, approach full conductor-to-conductor voltage. This is because the actual voltage to ground is determined by the insulation resistance and capacitive reactance of each conductor to ground; thus, low (but acceptable) insulation resistance of one conductor can in effect ground it and raise the other two to full conductor-to-conductor voltage to ground.
*For the relationship to rated voltage, see 4.3.2.
**These values correspond to the values given in Table F.1.

Table F.3b – Single-Phase, 4- or 3-Conductor AC Systems

Nominal Voltage of the Power Supply System (Mains)*	Voltages for Table F.4		
	For insulation conductor-to-conductor[1]	For insulation conductor-to-ground[1]	
	All systems	Three-phase, 4-conductor systems with grounded neutral conductor[2] 	Three-phase, 3-conductor systems, non-grounded[1] or grounded conductor 
V	V	V	V
60	63	32	63
110 120 127	125	80	125
150**	160		160
200	200		200
208	200	125	200
220 230 240	250	160	250
300**	320		320
380 400 415	400	250	400
440	500	250	500
480 500	500	320	500
575	630	400	630
600**	630		630
660 690	630	400	630
720 830	800	500	800
960	1000	630	1000
1000**	1000		1000

[1] Conductor-to-ground insulation level for non-grounded or impedance-grounded systems equals that for conductor-to-conductor, as the operating voltage to ground of any conductor can, in practice, approach full conductor-to-conductor voltage. This is because the actual voltage to ground is determined by the insulation resistance and capacitive reactance of each conductor to ground; thus, low (but acceptable) insulation resistance of one conductor can in effect ground it and raise the other two to full conductor-to-conductor voltage to ground.
[2] For equipment used on both three-phase, 4-conductor and three-phase, 3-conductor systems, grounded and non-grounded, use only the values for 3-conductor systems.
*For the relationship to rated voltage, see 4.3.2.
**These values correspond to the values given in Table F.1.

Material Groups

Insulation materials are classified into four groups according to their Comparative Tracking Index (CTI) as follows:

Material Group I: 600 ≤ CTI
Material Group II: 400 ≤ CTI < 600
Material Group IIIa: 175 ≤ CTI < 400
Material Group IIIb: 100 ≤ CTI < 175

The CTI values above refer to values obtained in accordance with DIN EN 60664-1/VDE 0110-1 on samples specially made for this purpose and tested with Solution A.

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

- Insulation Parameters per IEC/EN 60664-1 (continued)

Table F.4 – Creepage Distances to Avoid Failure due to Tracking
DIN EN 60664-1/VDE 0110-1

Voltage[1] (RMS)	Minimum Creepage Distances								
	Printed Circuits		Pollution Degree						
	Pollution Degree								
	1 All Material Groups	2 All Material Groups except IIIb	1 All Material Groups	2 Material Group I	2 Material Group II	2 Material Group III	3 Material Group I	3 Material Group II	3 Material Group III[2]
V	mm	mm	mm	mm	mm	mm	mm	mm	mm
10	0.025	0.04	0.08	0.4	0.4	0.4	1	1	1
12.5	0.025	0.04	0.09	0.42	0.42	0.42	1.05	1.05	1.05
16	0.025	0.04	0.1	0.45	0.45	0.45	1.1	1.1	1.1
20	0.025	0.04	0.11	0.48	0.48	0.48	1.2	1.2	1.2
25	0.025	0.04	0.125	0.50	0.5	0.5	1.25	1.25	1.25
32	0.025	0.04	0.14	0.53	0.53	0.53	1.3	1.3	1.3
40	0.025	0.04	0.16	0.56	0.8	1.1	1.4	1.6	1.8
50	0.025	0.04	0.18	0.6	0.85	1.2	1.5	1.7	1.9
63	0.04	0.063	0.2	0.63	0.9	1.25	1.6	1.8	2
80	0.063	0.1	0.22	0.67	0.95	1.3	1.7	1.9	2.1
100	0.1	0.16	0.25	0.71	1	1.4	1.8	2	2.2
125	0.16	0.25	0.28	0.75	1.05	1.5	1.9	2.1	2.4
160	0.25	0.4	0.32	0.8	1.1	1.6	2	2.2	2.5
200	0.4	0.63	0.42	1	1.4	2	2.5	2.8	3.2
250	0.56	1	0.56	1.25	1.8	2.5	3.2	3.6	4
320	0.75	1.6	0.75	1.6	2.2	3.2	4	4.5	5
400	1	2	1	2	2.8	4	5	5.6	6.3
500	1.3	2.5	1.3	2.5	3.6	5	6.3	7.1	8 (7.9)[4]
630	1.8	3.2	1.8	3.2	4.5	6.3	8 (7.9)[4]	9 (8.4)[4]	10 (9)[4]
800	2.4	4	2.4	4	5.6	8	10 (9)[4]	11 (9.6)[4]	12.5 (10.2)[4]
1000	3.2	5	3.2	5	7.1	10	12.5 (10.2)[4]	14 (11.2)[4]	16 (12.8)[4]
1250			4.2	6.3	9.	12.5	16 (12.8)[4]	18 (14.4)[4]	20 (16)[4]
1600			5.6	8	11	16	20 (16)[4]	22 (17.6)[4]	25 (20)[4]
2000			7.5	10	14	20	25 (20)[4]	28 (22.4)[4]	32 (25.6)[4]
2500			10	12.5	18	25	32 (25.6)[4]	36 (28.8)[4]	40 (32)[4]
3200			12.5	16	22	32	40 (32)[4]	45 (36)[4]	50 (40)[4]
4000			16	20.	28	40	50 (40)[4]	56 (44.8)[4]	63 (50.4)[4]
5000			20	25	36	50	63 (50.4)[4]	71 (56.8)[4]	80 (64)[4]
6300			25	32	45	63	80 (64)[4]	90 (72)[4]	100 (80)[4]
8000			32	40	56	80	100 (80)[4]	110 (88)[4]	125 (100)[4]
10000			40	50	71	100	125 (100)[4]	140 (112)[4]	160 (128)[4]
12500			50[3]	63[3]	90[3]	125[3]			
16000			63[3]	80[3]	110[3]	160[3]			
20000			80[3]	100[3]	140[3]	200[3]			
25000			100[3]	125[3]	180[3]	250[3]			
32000			125[3]	160[3]	220[3]	320[3]			
40000			160[3]	200[3]	280[3]	400[3]			
50000			200[3]	250[3]	360[3]	500[3]			
63000			250[3]	320[3]	450[3]	600[3]			

[1] This voltage is for:
- Functional insulation; the working voltage
- Basic and supplementary insulation of the circuit energized directly from the mains (see 4.3.2.2.1): for the voltage rationalized through Table F.3a or F.3b, based on the rated voltage of the equipment, or the rated insulation voltage
- Basic and supplementary insulation of systems, equipment and internal circuits not energized directly from the mains (see 4.3.2.2.2.): the highest rms voltage which can occur in the system, equipment or internal circuit when supplied at rated voltage and under the most taxing combination of operation conditions within equipment rating

[2] Material group IIIb is not recommended for applications in pollution degree 3 above 630 V.
[3] Provisional data based on extrapolation. Technical committees who have other information based on experience may use their dimensions.
[4] The values in brackets must only be applied for reducing creepage distances if a rib is used (see 5.2.5).

The high degree of accuracy of the creepage distances given in the table does not imply that the measuring accuracy must be of the same quality.

Depending on the intended use, WAGO's terminal blocks, splicing and pluggable connectors are suitable for pollution degrees 2 or 3 and for overvoltage categories II or III.

Example:
WAGO Rail-Mount Through Terminal Blocks
per IEC 60947-7-1/
EN 60947-7-1/VDE 0611-1, these blocks have the following ratings:

800 V / 8 kV / 3

Rated voltage:	800 V
Rated surge voltage	8 kV
Pollution Degree	3
Overvoltage category	III

WAGO's connectors for household and similar mounted installations are rated per IEC 60998-1 / EN 60998-1 / VDE 0613-1, Table 3.

Example:
WAGO PUSH WIRE® Connectors for Junction Boxes
According to this standard,
these connectors are rated for:
*400 V / 4 kV / 2
*grounded circuits

Rated voltage:	400 V
Rated surge voltage	4 kV
Pollution Degree	2
Overvoltage category	II

Table 3 – Clearances and Creepage Distances
(IEC/EN 60998-1)

Rated Insulation Voltage V	Clearances/Creepage Distances mm
≤ 130	1.5
> 130 and ≤ 250	3
> 250 and ≤ 450	4
> 450 and ≤ 750	6
> 750	8

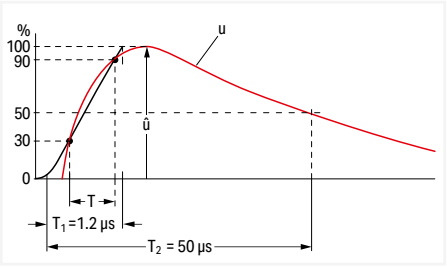
Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

• Power-Frequency Withstand Voltage Test per IEC/EN 60947-7-1, IEC/EN 60947-1

This testing procedure verifies creepage distances. Creepage distances, i.e., the distances of creeping currents, are caused by conductive impurities on the surface of the insulation housing. Apart from the amount of impurities to which a terminal block is subjected, for example, the plastic material and housing design are also involved in generating creeping currents. The insulation material of the housing may be carbonized by a creeping current, which further increases conductivity.
The specimen is tested using a power-frequency withstand voltage for a short time. For example, a rail-mount terminal block designed to operate at 800 V nominal voltage is usually tested using 2000 V alternating voltage for one minute. The test is passed if no flashovers or breakdowns have occurred.

• Rated Impulse Withstand Voltage Test per IEC/EN 60947-7-1, IEC/EN 60947-1

This test verifies the clearances of a product. In simplified terms, clearance is the distance between two poles of a terminal block. If this distance is too small, voltage peaks may cause flashovers or breakdowns. The arrangement of the rated impulse withstand voltage test is identical to that of the power frequency withstand voltage test; the test voltages, however, are comparatively higher and the testing times shorter, e.g., 9.8 kV over 50 µs (see figure).



Voltage pulse: 1.2/50 µs per EN 60060-1/VDE 0432-1

Voltage pulse: measurement curve (red) and auxiliary curve (black) for calculating the rate of rise of the pulse and the resulting (virtual) peak of the curve.

T: Time interval for calculating the rate of rise
T1: Front time (duration between start of impulse and reaching the peak)
T2: Total pulse duration

The test values are the values at sea level as specified in the relevant test specification.
The values indicated in the catalog correspond to an altitude of 2000 m.
The test is passed if no flashovers or breakdowns have occurred.

• IP Ratings for Electrical Equipment per IEC/EN 60529

Alphanumeric Nomenclature for Type of Protection			
Code letters IP	Protection against accidental contact and against the penetration of foreign objects or water	IP (Ingress Protection) = International degree of protection	
First code number 0 to 6	Indicates the degree of protection against accidental contact and the penetration of foreign objects.	If indicating the degree of protection requires only one digit, the other (second) digit must be substituted for with an X.	
Second code number 0 to 8	Indicates the degree of protection against water penetration.		
First code number:		Second code number:	
IP0X	No protection against accidental contact or the penetration of foreign objects	IPX0	No protection against water
IP1X	Protection against foreign objects > 50 mm	IPX1	Protection against vertically falling water
IP2X	Protection against foreign objects > 12 mm (e.g., finger)	IPX2	Protection against diagonally dripping water (15° angle)
IP3X	Protection against foreign objects > 2.5 mm	IPX3	Protection against water spray
IP4X	Protection against foreign objects > 1 mm	IPX4	Protection against water spray
IP5X	Protection against damaging dust deposits	IPX5	Protection against water jet, e.g., from a nozzle
IP6X	Protection against dust penetration	IPX6	Protection against flooding
		IPX7	Protection against temporary immersion
		IPX8	Protection against continuous immersion
		IPX9	Protection against high-pressure and high-temperature water jets

IP vs. NEMA	
IP Code	NEMA
10	1
11	2
54	3
14	3R
54	3S
55	4&4X
52	5
67	6&6P
52	12&12K
54	13

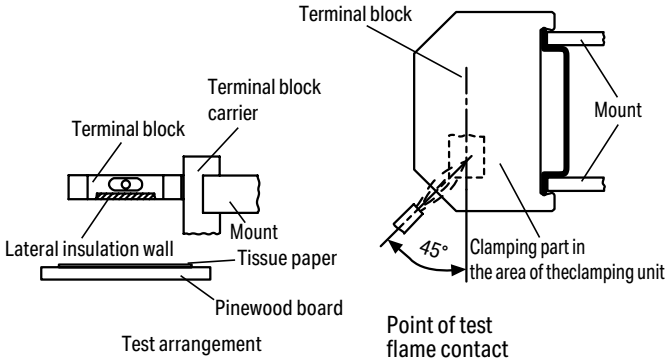
Tests and Testing Procedures per IEC/EN Standards (continued)

Material Tests

All WAGO products meet requirements for the following material tests:

- Needle Flame Test per IEC/EN 60947-7-1, IEC/EN 60695-11-5

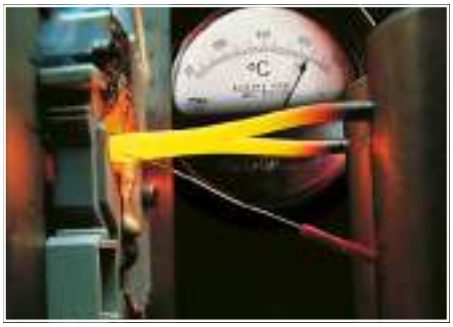
This test simulates flames that may arise under certain conditions (e.g, fault current over a creepage distance, overloading of parts or components). Nearby parts can also be affected by such flames.
Not only the ignition of the test specimen resulting from an intrinsic defect is tested, but also its behavior when other parts ignite.



Flames must not be fuelled by the insulation materials used, thus creating a larger fire. The test specimen is exposed to a standard gas flame during a defined time period (e.g., ten seconds).
After the test flame has been removed, the specimen must self-extinguish within 30 seconds. Furthermore, a layer of tissue paper located beneath the specimen must not be ignited by glowing particles falling from the specimen.

- Glow-Wire Test per IEC/EN 60998-1, IEC/EN 60695-2-11

In the event of failure, a high current may cause a conductor to glow.



However, the glowing conductor shall not cause ignition of the product involved (e.g., a rail-mount terminal block). For the glow-wire test, the tip of the glow-wire is pressed against a surface of the test specimen (see picture).
The position of the test specimen, surface to be tested, test duration and glow-wire temperature (e.g., 960°C/1760°F over 30 seconds, or 850°C/1562°F over 5 seconds) are specified in the standards.
The specimen must be positioned such that the tip of the glow-wire acts on the surface section of the specimen (vertical surface of the specimen) that is most likely to be exposed to thermal loading during normal use.

As the highest temperature in the event of a fault is anticipated at the contact insert/wire connection, the tip of the glow-wire must act upon the section of the insulation housing that is the closest to this contact point.
The test is passed if there are no visible flames or permanent glowing, or if flames or glowing extinguish within 30 seconds after removal of the glow-wire. Furthermore, a layer of tissue paper located beneath the specimen must not be ignited by glowing particles falling from the specimen.

Tests and Testing Procedures per IEC/EN Standards (continued)

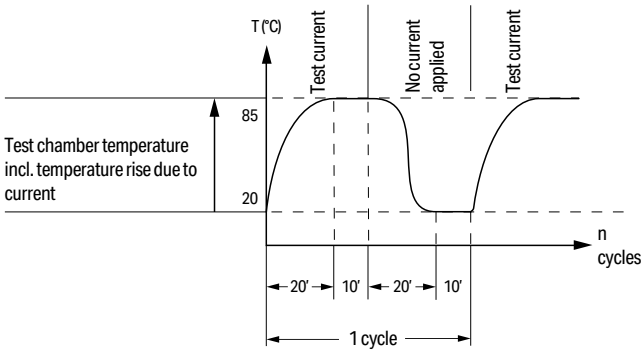
Environmental Tests

The following tests show how a product reacts when exposed to an aggressive environment. Climatic chambers simulate standard atmospheres that could impact the long-term consistency of clamping units.

All WAGO products meet the requirements of the following environmental tests:

- Temperature Cycling Test per IEC/EN 60947-7-1, IEC/EN 60998-2-2

This test shows the change of voltage drop over longer periods under temperature cycling conditions. The test procedure usually consists of 192 temperature cycles, for example, each cycle having a duration of 60 minutes (see diagram).



The rated current is applied to the test specimen during temperature rise and when the temperature has reached its maximum value; during the second half of the cycle, the current is zero. Voltage drop is measured every 24 cycles and must not exceed a maximum value or vary greatly. The voltage drop measured at the end of the 192nd cycle must not exceed 1.5 times the value measured after the 24th cycle. After the test, an inspection must show no changes that would impair further use of the product.

- Industrial Atmospheres per EN ISO 6988, IEC/EN 60068-2-42, IEC/EN 60068-2-60

Sulphur and its combustion products are particularly aggressive pollutants commonly found in industrial environments. A test procedure simulating such corrosive conditions consists of exposing a test specimen to water condensation in variable atmospheres containing sulphur dioxide.



A saturated atmosphere is first created in a climatic chamber by heating an aqueous sulphur dioxide solution. After less than half an hour, the test specimen is fully saturated by the condensing vapors and exposed to this atmosphere for eight hours.

After exposure to a humid atmosphere, the test specimen is subjected to dry and cooler conditions at room temperature for 16 hours. Depending on the test severity, the specimen is exposed to both these conditions several times. The gas-tightness of the clamping unit is verified by a voltage drop test.

In other test procedures, products are exposed to a dry corrosive gas atmosphere containing sulfide, nitrogen and sulfur oxides or chloride gas. These tests can be performed over a period of four to 21 days.

• Salt Spray Test per IEC/EN 60068-2-11; DNV GL, LR (Marine Applications)

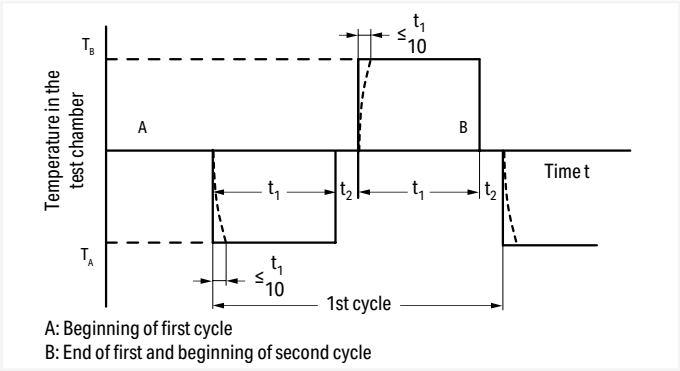
This test is similar to the test performed in atmospheres with varying water condensation, except that instead of industrial atmospheres, salt mist conditions will be simulated in a heated test chamber (see picture).



Depending on the test procedure being used, the test specimen is sprayed with salt mist for 16 hours up to 672 hours (4 weeks).
Salt spray tests are widely used, especially for marine approvals.
However, this test is performed differently than the test procedures described previously for general applications:
During a typical test, the test specimen is sprayed with a salt solution for two hours and is then stored for seven days in an atmosphere with a relative humidity between 90 and 95%.
This procedure is repeated four times.
Voltage drop measurements are used as an evaluation criterion.

• Quick Change of Temperature per IEC/EN 60068-2-14

Without air-conditioning, distribution panels and terminal boxes are exposed to seasonal (and ever-changing) temperature extremes – especially on the open field side.
In process technology, for example, a terminal block is exposed to even quicker changes in temperature.

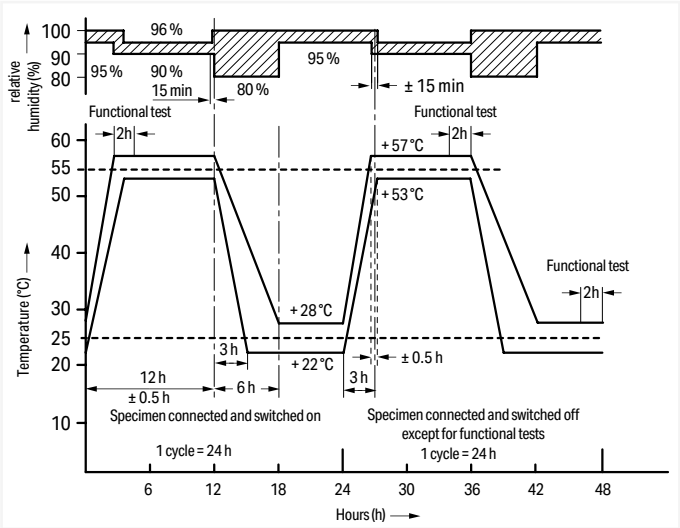


A: Beginning of first cycle
B: End of first and beginning of second cycle

To simulate such conditions, the test specimen is exposed to repeated temperature changes, for example, between TA −40°C (−104°F) and TB +70°C (+158°F).
The dwell time t1 depends on the thermal capacity of the test specimen and should be between maximum of 3 h and minimum of 10 min and the transition time t2 2 … 3 min, 20 … 30 s or less than 10 s.
The mechanical and electrical properties of the product are checked at the end of the test.

• Damp Heat, Cyclic (12 + 12 Hour Cycle) per IEC/EN 60068-2-30, DNV GL, LR (Marine Applications)

This test determines the suitability of electrical equipment for use and storage under conditions of high relative humidity when combined with cyclic temperature changes and, in general, producing condensation on the surface of the specimen.



In addition to the salt spray tests, the damp heat test is also used for marine approvals.
For this test, the specimens are subjected to temperatures varying cyclically between +25°C (+77°F) and +55°C (+131°F) with a relative humidity of 95% (for tolerances see figure).
Functional tests are performed at defined times during the storage period.
The mechanical and electrical properties of the product are checked at the end of the test.

UL Specifications – Underwriters Laboratories, USA

WAGO's terminal blocks and connectors are tested by Underwriters Laboratories Inc. according to one or more of the relevant following UL standards:

• The 273 Series PUSH WIRE® Connectors for Junction Boxes or the 224 Series Lighting Connectors are splicing wire connectors and are certified per UL 486C. These stand-alone devices carry the **UL Listing Mark** ㊊.	UL 486C	Splicing wire connectors
• Rail-mount terminal blocks or modular terminal blocks (e.g., 280 Series, TOPJOB® S or 260 to 262 Series terminal blocks) are approved as non-stand-alone components per UL 1059 in connection with UL 486E.	UL 1059 UL 486E	Standard for terminal blocks Equipment wiring terminals for use with aluminum and/or copper conductors
• The X-COM®-SYSTEM is approved as terminal blocks per UL 1059 standard in connection with UL 486E. It is therefore defined for field and factory wiring with at 300 V.		
• It is also approved as connectors for use in data, signal, control and power applications per UL 1977 for factory wiring at 600 V (i.e., the clamping unit must be wired under controlled manufacturing conditions).	UL 1977	Component connectors for use in data, signal, control and power applications
• Ex e II terminal blocks are approved to UL 60079-7.	UL 60079-7	Electrical apparatus for explosive gas atmospheres – Part 7: Increased safety
• Ground terminal blocks are tested for grounding and bonding applications per UL 467. Components bearing the **UR Recognition Mark** ᖰᖳ are recognized product. Additionally, after being mounted in their special applications, these components are submitted to an end-product test according to the relevant device or equipment standard.	UL 467	Grounding and bonding equipment
• Insulation materials are tested for flammability and performance per UL 94.	UL 94	Tests for flammability of plastic materials for parts in devices and appliances

Tests and Testing Procedures per UL Standards

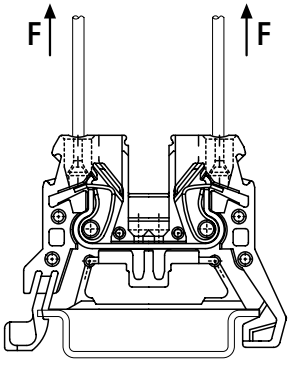
All WAGO products meet requirements for the following tests:

- Pull-Out Test per UL 1059, UL 486E (Rail-Mount Terminal Blocks), UL 486C (Splicing Wire Connectors)

In this test, the connected conductors are subjected to the appropriate pull-out forces specified in the following table without jerking for a period of one minute. Different test arrangements are specified for rail-mount terminal blocks and splicing wire connectors.

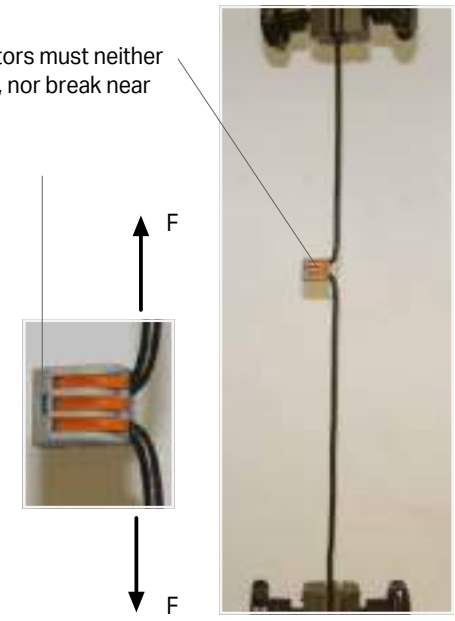
Conductor Size		Pull-Out Force, Pounds (N)					
		UL 486E, Table 22				UL 486C, Table 20	
		Copper		Aluminum		Copper	
AWG or kcmil	(mm²)						
30	(0.05)	0.5	(2.2)	-	-	1.5	(6.7)
28	(0.08)	1	(4.5)	-	-	2	(8.9)
26	(0.13)	2	(8.9)	-	-	3	(13.4)
24	(0.2)	3	(13.4)	-	-	5	(22.3)
22	(0.32)	4.5	(20)	-	-	8	(35.6)
20	(0.52)	6.75	(30)	-	-	10	(44.5)
18	(0.82)	6.75	(30)	-	-	10	(44.5)
16	(1.3)	9	(40)	-	-	15	(66.7)
14	(2.1)	11.5	(50)	-	-	25	(111)
12	(3.3)	13.5	(60)	10	(44)	35	(155)
10	(5.3)	18	(80)	10	(44)	40	(178)
8	(8.4)	20.5	(90)	10	(44)	45	(200)
6	(13.3)	21	(94)	28	(124)	50	(222)
4	(21.2)	30	(133)	36	(160)		
3	(26.7)	35	(156)	42	(187)		
2	(33.6)	42	(186)	50	(222)		
1	(42.4)	53	(236)	61	(271)		
1/0	(53.5)	64	(285)	72	(320)		
2/0	(67.4)	64	(285)	78	(347)		
3/0	(85.0)	79	(351)	97	(432)		
4/0	(107)	96	(427)	116	(516)		
250	(127)	96	(427)	116	(516)		
300	(156)	99	(441)	116	(516)		

Test Arrangement per UL 1059, UL 486E:



Test Arrangement per UL 486C:

During the test, the conductors must neither slip out of the clamping unit, nor break near the clamping unit.



15

UL Specifications – Underwriters Laboratories, USA (continued)
Tests and Testing Procedures per UL Standards (continued)

- Heat Cycling Test per UL 1059, UL 486E

Test performed per:

UL 1059

Test performed with maximum rated cross section

Test current: 150% of maximum rated current

84 cycles of: 3 1/2 h ON / 1/2 h OFF

The temperature rise is measured after the first and the 84th cycle.

The temperature rise must not exceed 5°C (41°F) after the 84th cycle, compared to the temperature measured after the first cycle.

UL 486C (Splicing wire connectors)

UL 486E (Equipment wiring terminals)

Test performed with maximum rated cross section

Test current: Increased test current per UL 486C, Table 6 UL 486E, Table 4

500 cycles of: 1 h ON / 1 h OFF
1 1/2 h ON / 1 1/2 h OFF
(from 4/0 AWG up to 400 kcmil per UL 486E)

The temperature rises at the terminal blocks and control conductors are measured and recorded after: 1, 25, 50, 75, 100, 125, 175, 225, 275, 350, 425 and 500 cycles.

The temperature rise must not exceed 125°C (257°F) and the stability factor "S" must not exceed ±10.

Conductor Size		Test Current for Copper Conductors in A								
		UL 486E, Table 4							UL 486C, Table 6	
AWG or kcmil	(mm²)	Assigned Maximum Ampere Rating[b]	Static Heating[a,c,g]		Heat Cycling Temperature Rating[a] 75°C (167°F)[d,g]		90°C (194°F)[e,g]		Static Heating	Heat Cycling
30	(0.05)	-		3		3.5		4	3	3.5
28	(0.08)	-		3.5		4		5	3.5	4
26	(0.13)	-		5.5		6		8	5.5	6
24	(0.2)	-		7		8		10	7	8
22	(0.32)	-		9		12		13	9	12
20	(0.52)	-		12		16		17	12	16
18	(0.82)	-		17		19		24	17	19
16	(1.3)	-		18		20		31	18	20
14	(2.1)	15	[20]	30	[22]	33	[27]	40	30	33
12	(3.3)	20	[25]	35	[28]	39	[40]	54	35	38
10	(5.3)	30	[40]	50	[45]	56	[60]	75	50	56
8	(8.4)	50		70		80		100	70	80
6	(13.3)	65		95		105		131	95	105
4	(21.2)	85		125		140		175		
3	(26.7)	100		145		165		205		
2	(33.6)	115		170		190		240		
1	(42.4)	130		195		220		275		
1/0	(53.5)	150		230		255		320		
2/0	(67.4)	175		265		300		370		
3/0	(85.0)	200		310		345		435		
4/0	(107)	230		360		405		505		
250	(127)	255		405		445		565		
300	(152)	285		445		500		625		

[a] See Section 7.2, 8.2 and 9.2 (UL 486E)
[b] Values are for 75°C (167°F), not more than 3 conductors in raceway or cable ampacities, National Electric Code, ANSI/NFPA 70.
[c] Values are for 75°C (167°F) single conductors in free air ampacities, National Electric Code, ANSI/NFPA 70.
[d] Values are approximately 112% of the static heating test currents.
[e] Values for 8 AWG and larger conductors are approximately 140% of the static heating test currents.
[f] See Section 9.2.4
[g] Values in parentheses apply to connectors with assigned ampere ratings.

• Conditioning – Temperature-Rise Rest per UL 1059, UL 486C

Test performed per:

UL 1059 (Rail-mount terminal blocks) **UL 486C** (Splicing wire connectors)

Conditioning:

The clamping units are **pre-wired/pre-inserted nine times** using a conductor with maximum rated cross section. At the tenth time, a new conductor is connected.
After this, a static heating test is performed.

Static Heating Test:

Test current:	Terminal block rated current	Test current:	Increased test current (see Table 6)
Test duration:	30 days	Test duration:	30 days
Max. permissible temperature rise:	30°C (86°F)	Max. permissible temperature rise:	50°C (122°F)

• Grounding and Bonding Equipment per UL 467

When used in grounding and bonding equipment, e.g., terminal blocks, must withstand a short circuit test using the test currents and test durations as specified in Table 5.

In the following example, a 2 AWG (35 mm²) ground conductor terminal block (285-635) is tested for 6 seconds at 3900 A.

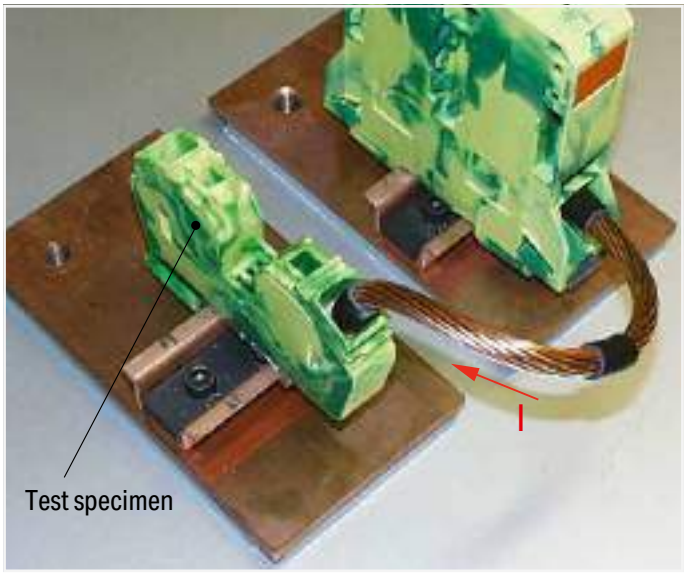


Table 5

Conductor Size Copper		Test Duration	Test Current
AWG	mm²	s	A
14	(2.1)	4	300
12	(3.3)	4	470
10	(5.3)	4	750
8	(8.4)	4	1180
6	(13.3)	6	1530
4	(21.2)	6	2450
3	(26.7)	6	3100
2	(33.6)	6	3900
1	(42.4)	6	4900
1/0	(53.5)	9	5050
2/0	(67.4)	9	6400
3/0	(85.0)	9	8030
4/0	(107)	9	10100
250 kcmil	(127)	9	12000

After the test, the specimen must neither show evidence of cracking, breaking or melting, nor any changes in electrical properties.

UL Specifications – Underwriters Laboratories, USA (continued)
Tests and Testing Procedures per UL Standards (continued)

• Insulation Parameters per UL 1059

The table below shows the potential involved and the corresponding clearances and creepage distances required in different applications.

Table 8.1 – Minimum Acceptable Spacing for Terminal Blocks per UL 1059 Standard

		Spacing in inches (mm) between uninsulated live parts of opposite polarity, uninsulated live parts and uninsulated grounded parts other than the enclosure			
Application:	Potential Involved in Volts	Through Air		Over Surfaces	
A. Dead-front switchboards, panelboards, service equipment and similar applications	51 ... 150 151 ... 300 301 ... 600	1/2 3/4 1	(12.7) (19.1) (25.4)	3/4 1-1/4 2	(19.1) (31.8) (50.8)
B. Commercial appliances, including business equipment, electronic data processing equipment and similar applications	51 ... 150 151 ... 300 301 ... 600	1/16[a] 3/32[a] 3/8	(1.6)[a] (2.4)[a] (9.5)	1/16[a] 3/32[a] 1/2	(1.6)[a] (2.4)[a] (12.7)
C. Industrial, general	51 ... 150 151 ... 300 301 ... 600	1/8[a] 1/4 3/8	(3.2)[a] (6.4) (9.5)	1/4 3/8 1/2	(6.4) (9.5) (12.7)
D. Industrial, devices having limited ratings[b]	51 ... 300 301 ... 600	1/16[a] 3/16[a]	(1.6)[a] (4.8)[a]	1/8[a] 3/8	(3.2)[a] (9.5)
E. Terminal blocks rated 601 ... 1500 V[c]	601 ... 1000 1001 ... 1500	0.55 0.70	(14.0) (17.8)	0.85 1.20	(21.6) (30.5)

Notes:

1 A slot, groove, or similar, 0.013 inch (0.33 mm) wide or less in the contour of the insulating material is to be disregarded.

2 Air space of 0.33 mm or less between a live part and an insulating surface is to be disregarded for the purpose of measuring over surface spacing.

[a] The spacing between terminal blocks of opposite polarity and the spacing between a terminal block and a grounded dead metal part shall not be less than 1/4 inch (6.4 mm) if short-circuiting or grounding of such terminal blocks may result from protruding wire strands.

[b] See Section 8.5 (UL 1059)
The spacing values indicated in sub-paragraph D in Table 8.1 are applicable to a terminal block for use only in or with industrial control equipment where the load on any single circuit of the terminal block does not exceed 15 A at 51 ... 150 V, 10 A at 151 ... 300 V, 5 A at 301 ... 600 V or the maximum ampere rating, whichever is less.

[c] Applies only to terminal blocks investigated to Part II of this standard. See Section 22.1 (UL 1059).

• Flammability Test per UL 94

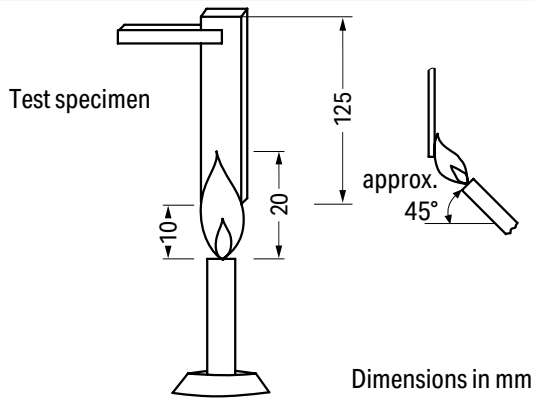
This test provides an indication of the material's ability to extinguish a flame, once ignited.
Several ratings can be applied, based on the rated of burning, time to extinguish, ability to resist dripping, and afterglow extinguishing time.
Each material tested may receive several ratings, depending on the wall thickness.

UL 94 Rating Categories:

V2
- Specimen mounted vertically
- Burning stops within 30 seconds after the flame is removed
- Flaming drips allowed
- Afterglow extinguishes within max. 60 s

V1
- Specimen mounted vertically
- Burning stops within 30 seconds after the flame is removed
- No flaming drips allowed
- Afterglow extinguishes within max. 60 s

V0
- Specimen mounted vertically
- Burning stops within 10 seconds after the flame is removed
- No flaming drips allowed
- Afterglow extinguishes within max. 30 s



During the test, a 3/4 inch (20 ±1 mm) flame is applied for two 10-second intervals to the specified bar specimen held vertically.

"Alu-Plus" Contact Paste
Terminating aluminum conductors

Terminating Aluminum Conductors
WAGO spring clamp terminal blocks are suitable for solid aluminum conductors ❶ up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste is used for termination.

"Alu-Plus" Contact Paste Advantages:
- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

For spring clamp connections with PUSH WIRE® connection technology, **WAGO recommends that the aluminum conductor first be cleaned** and then immediately inserted into the clamping unit filled with "Alu-Plus" contact paste

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:

2.5 mm² (14 AWG) = 16 A
4 mm² (12 AWG) = 22 A

WAGO "Alu-Plus" in the syringe offers a higher degree of reliability and cleanliness when terminating solid aluminum conductors. Filling is quickly performed on selected WAGO connectors and terminal blocks (see pictures).

❶ Aluminum conductors per IEC 61545 standard, Class B, "Alloy 1370" with 90 … 180 N/mm² tensile strength and 1 … 4% elongation
Standard values: 90 … 180 MPa tensile strength, 1 … 4% elongation (per EN 615.4.1)



WAGO Lighting Connectors
Push nozzle of the "Alu-Plus" syringe first into the circular entry and then into the square conductor entry hole of the WAGO Lighting Connector.



Press plunger down until the "Alu-Plus" has filled both entry holes.

Note: Not suitable for higher temperature applications!



WAGO Rail-Mount Terminal Blocks (up to 4 mm²/12 AWG)
For each conductor entry: Insert nozzle of the "Alu-Plus" syringe in every open conductor entry hole (one after the other).



Press plunger down until "Alu-Plus" has filled all conductor entry holes.

Material Specifications

Insulation materials

WAGO primarily uses polyamide (PA 66 and PA 46) for housing current-conducting parts, as well as polyphthalamide (PPA) and polycarbonate (PC) for insulation material (see table). For more than 50 years, these materials have proven themselves in WAGO products and all are approved by certified, third-party agencies. All listed halogen-free and flame-retardant polymer materials do not contain any heavy metals, silicone, asbestos, or formaldehyde as formulation components.

Table: Standard Insulation Materials

Material	PA 66	PA 66 GF	PPA GF	PA 46	PC	PC
Flammability UL 94 flammability test ratings	V0	V0	V0	V2	V2	V0
Oxygen Index (OI) per EN ISO 4589-2	> 32 %	> 33 %	> 37 %	> 27 %	> 26 %	> 35 %
Glow-wire test per IEC 60695-2-12 GWFI* IEC 60695-2-13 GWIT*	850°C 775°C	850°C 775°C	850°C 775°C	750°C 725°C	800°C 850°C	960°C 850°C
Comparative Tracking Index (CTI) per IEC 60112	600 V	600 V	600 V	375 V	225 V	225 V
Temperature of the ball indentation hardness test per IEC 60695-10-2	≥ 125 °C	≥ 175 °C	≥ 225 °C	n.s.**	≥ 125 °C	≥ 125 °C
RTI impact per UL 746B	105°C	100°C	115°C	115°C	125°C	120°C
Heat deflection temperature (HDT/B) per ISO 75 (bending stress A*: 1.8 MPa; B: 0.45 MPa)	215°C	235°C	285°C	280°C	130°C (1.8 MPa)	130°C (1.8 MPa)
Surface resistivity per IEC 60093	10^{12} Ω	10^{12} Ω	10^{15} Ω	10^{13} Ω	10^{15} Ω	10^{15} Ω
Specific contact resistance per IEC 60093	10^{15} Ω/cm	10^{15} Ω/cm	10^{13} Ω/cm	10^{13} Ω/cm	10^{11} Ω/cm	10^{13} Ω/cm
Dielectric strength per IEC 60243-1	30 kV/mm	40 kV/mm	25 kV/mm	25 kV/mm	25 kV/mm	29 kV/mm

*Value depends on wall thickness, EN 60335 compliance upon request; **n. s. = not specified

General Environmental Requirements for WAGO Electrical Interconnection Products

WAGO Electrical Interconnection Products are designed for worldwide applications.
To properly commission products, the following environmental requirements must be observed during storage, transportation and operation.

Table 1: General Environmental Requirements for Storage, Transportation and Operation*

Environmental requirements during	Value range
Operation	-35 °C … +60 °C
Storage and transportation	-40 °C … +60 °C
Relative humidity (storage and transportation)	20 % … 95 % (non-condensing, no dew)

*These requirements apply to open and packaged products unless otherwise specified on the product at www.wago.com or on the catalog page.

Polyamide (PA 66)
WAGO uses modified, halogen-free, flame-retardant polyamides.

These materials do not corrode, are difficult to ignite and feature self-extinguishing properties (V0 rating per UL 94).

Adhering to UL 746C, the polyamides used at WAGO have a continuous operating temperature of 105°C (221°F) based on the relative temperature index with impact load (RTIimp). This ensures that the necessary electrical and mechanical insulating properties are maintained at a sufficiently guaranteed level over a long period of time.

The short-term upper temperature limit is 200°C (392°F).

In lower temperature ranges, it has been determined that no damage to the insulation material occurs during usage down to −35°C (−31°F). After installation and wiring, WAGO products can even be used at temperatures down to −60°C (−76°F).

Environmental humidity (up to 2.5% in a standard atmosphere) is absorbed, providing the polyamides with optimum elasticity, strength and durability.

In practical use, basic stabilization of WAGO's polyamides has been proven over many years to be sufficient to prevent damage caused by ozone or UV radiation exposure in intended applications.

Polyamides have excellent resilience against the most demanding climates and have proven themselves in tropical applications worldwide. Insulation parts made of polyamide are resistant to insects. The material does not provide oxygen or other biogenic elements to microorganisms.

The presence of anaerobic earth bacteria, mold, fungus and enzymes does not degrade the material.

Polyamides are resistant to most fuels, greases, and oils, as well as the most commonly used cleaners, such as alcohol, Freon, Frigen, and carbon tetrachloride. Acid resistance depends on the acid type and concentration, as well as the exposure time.

The use of insulation materials during in-house production at WAGO only occurs after acceptance of factory test certificates and specified material tests.

Glass Fiber-Reinforced Polyamide (PA 66 GF)
WAGO uses glass-fiber-reinforced polyamides for components with increased mechanical demands, such as levers, push-buttons or housings exposed to high stress, because they have significantly better mechanical characteristic properties than non-reinforced polyamides.

In general, materials are used that have excellent tracking resistance, flammability ratings and high temperature resistance.

More data can be found in the table.

Polyphthalamide (PPA GF)
Glass-fiber-reinforced, high-performance polyamides are ideal for high-temperature applications, due to the material's high level of thermal dimensional stability, its low dependence on ambient conditions and its excellent strength properties. The material's outstanding tracking resistance permits short creepage distances to be incorporated into miniature components. Fire protection equipment enables classification in flammability class V0 per UL 94 – even for extremely thin walls. PPA GF absorbs minute amounts of moisture from the atmosphere making it ideal for reflow soldering applications and for thin-walled, dimensionally stable components.

More data can be found in the table.

Polyamide (PA 46)
In comparison with PA 66, PA 46 has substantially higher dimensional stability under heat. The relative temperature index with impact load (RTIimp) is 115°C (239°F) for PA 4.6.
The permissible short-term temperature for the type used by WAGO is 280°C (536°F).

More data can be found in the table.

Polycarbonate (PC)
Polycarbonate has excellent dimensional stability under heat. The electrical and mechanical properties remain intact at extremely high temperatures up to approximately 120°C (248°F) per UL Yellow Card. Its excellent electrical insulating properties and dimensional stability are virtually independent of environmental conditions, such as humidity and temperature. Highly precise components can be created due to the low shrinkage of the material during injection molding. Polycarbonate has excellent weather resistance and is also highly resistant to high energy radiation.
If the PC is not colored, then the components are glass-clear.
Thanks to its desirable properties (e.g., dimensional stability, heat resistance, non-flammability, durability and transparency), PC is a proven and widely used material in the electrical industry.

Depending on the demands placed on the finished product, WAGO uses polycarbonates that carry flammability classifications V2 and V0 per UL 94.

Medium-viscosity PC is used that features excellent chemical resistance.

Material Specifications

Contact Materials

Hard and extra-hard electrolytic copper (ECu), as well as extra-hard copper alloys are the standard materials used for the current-carrying parts of all WAGO products.

These materials combine excellent conductivity and good chemical resistance without the risk of stress-induced cracking.

Contact Materials

The special tin layer, which is the standard layer for all current-carrying parts in WAGO products, ensures perfect long-term protection against corrosive substances. Furthermore, these layers provide a gas-tight contact that ensures a durable transition resistance.

At the clamping unit, the conductor is embedded into the soft tin layer via high contact pressure. This protects the contact area against corrosion.

The thick tin layer also ensures good solderability of both PCB terminal block and connector solder pins.

Clamping Spring Material

Every WAGO clamping spring is made of high-quality, accurately tested austenitic chrome nickel steel (CrNi) with high tensile strength, which boasts proven corrosion resistance through long-term usage.

It is resistant to sea spray, city pollutants and industrial emissions (e.g., sulfur dioxide, hydrogen sulfide).

At room temperatures of approximately 20°C (68°F), the material is resistant to salt solutions up to 30% and dilute phosphoric acids up to 30%.

Even after decades of use, no galvanic corrosion between the chrome nickel spring steel (in connection with the contact materials used by WAGO) and the connected copper conductors has been detected.

The relaxation of the material as a function of time and surrounding temperatures up to 105°C (221°F) can be ignored. Samples loaded with 500 N/mm² at a temperature of 250°C (482°F) showed a relaxation of only 1.5%.

In certain product lines, the clamping springs are thermally treated at temperatures between 350°C (662°F) and 420°C (788°F) after production.

This treatment reduces internal stress due to the material's mechanical deformation, which may result in a slight brown discoloration of the spring surface.

WAGO only accepts deliveries of chrome nickel spring steel against certificates of conformity and after select material tests have been performed.

General Technical Information on Electrical Equipment Used in Hazardous Areas

The formation of an explosive atmosphere is required for the existence of a potentially explosive hazard. Such an atmosphere can be produced at any location where flammable gases or liquids are manufactured, processed, transported and/or stored.
Such hazardous areas can be found in a wide range of industries, including chemical plants, refineries, power plants, paint production facilities, painting shops, filling stations, vehicles, sewage treatment plants, airports, grain mills or harbor facilities.

THE FOLLOWING APPLIES AS A GUIDELINE FOR THE UNDERLYING PRINCIPLE FOR EXPLOSION PROTECTION:

General Requirements
The European EN 60079-0 Standard – VDE 0170-1 Classification – contains general requirements for the design and testing of electrical equipment to be used in hazardous areas.
This ensures this equipment does not cause an explosion in the surrounding atmosphere. EN 60079-0 is supplemented or revised by the European standards indicated on the right which refer to the specifically standardized types of protection.

Electrical Equipment
Electrical equipment includes all items used in whole or in part with electricity. This includes items for generation, transport, distribution, storage, measurement, control, conversion and consumption of electrical power, as well as telecommunications.

Ex Components
Ex components are elements of electrical equipment for hazardous areas that are marked with the "U" letter. These components must not be used on their own in such areas and require an additional certificate when used in such areas when installed in the electrical equipment.

Ignition Protection Categories
Only explosion-proof (protected) equipment must be used in areas in which an explosive atmosphere may still be expected despite the implementation of prevention measures. Explosion-protected electrical equipment can have various types of protection in accordance with the EN 60079 standard requirements.
Protection used by the manufacturer essentially depends on the type and function of the apparatus. From a safety point of view, all standardized types of protection should be viewed as equal.
The ignition protection category "n" exclusively describes the use of explosion-protected electrical components in Zone 2. This zone includes areas in which hazardous, potentially explosive atmospheres are likely to occur rarely or short-term. This represents a transition between Zone 1, in which explosion protection is required, and the safe area in which, for example, welding may be performed at any time.
Regulations covering these electrical components are being prepared worldwide. Organizations such as KEMA in the Netherlands, or PTB in Germany certify that the devices meet the requirements of the EN 60079-15 standard.
Ignition protection category "n" also requires that electrical equipment be provided with additional ID markings as follows:
- nA – non-sparking
- nC – enclosed-break, hermetically sealed, non-incendive, sealed
- nR – restricted-breathing

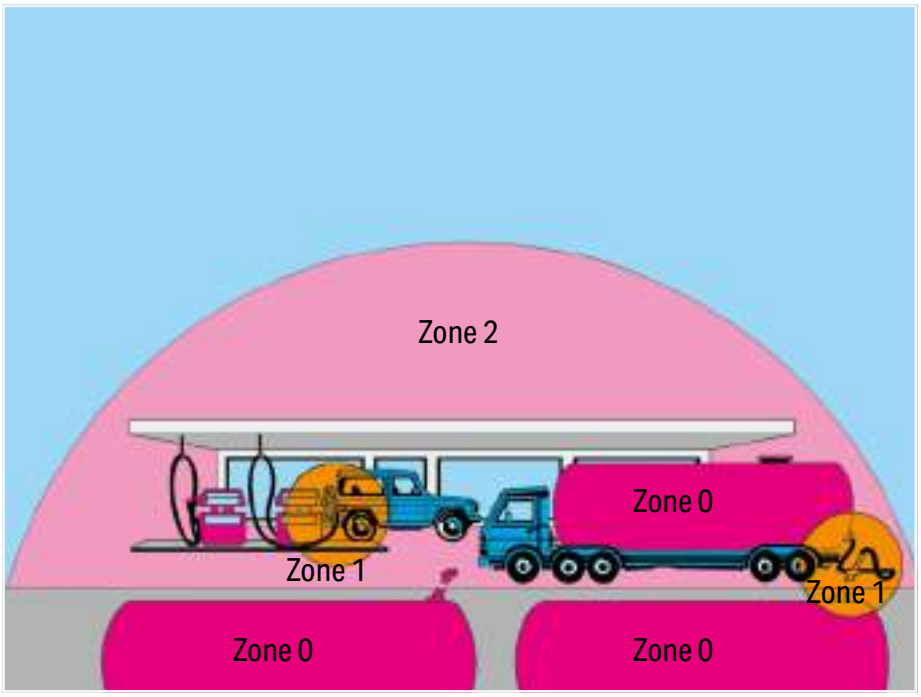
The table on the opposite page shows an overview of the standardized ignition protection categories and describes their basic principle, as well as typical applications.

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

Ignition Protection Categories			
Symbol	Standard	Explanation	Application Area
"o"	IEC 60079-6 EN 60079-6	**Equipment protection by oil immersion:** Electrical equipment or parts of such equipment are immersed in oil.	Zones 1 + 2
"p"	IEC 60079-2 EN 60079-2	**Equipment protection by pressurized enclosure:** The ingress of the external (explosive) atmosphere into the electrical equipment housing is prevented by maintaining a protective gas internally at a pressure above that of the external atmosphere.	Zones 1 + 2
"q"	IEC 60079-5 EN 60079-5	**Equipment protection by sand filling:** Filling the electrical equipment housing with fine grain sand prevents the ignition of a surrounding explosive atmosphere by an electric arc generated in the housing.	Zones 1 + 2
"d"	IEC 60079-1 EN 60079-1	**Equipment protection by flameproof enclosures:** The parts that could ignite an explosive atmosphere are encapsulated in a housing, which will withstand the explosion pressure within the housing.	Zones 1 + 2
"eb" "ec"	IEC 60079-7 EN 60079-7	**Equipment protection by increased safety:** Additional measures applied to achieve increased security against the possibility of excessive temperatures and the occurrence of arcs or sparks.	Zones 1 + 2
"i"	IEC 60079-11 EN 60079-11	**Equipment protection by intrinsic safety:** Power circuit in which no sparks or thermal effects can occur and cause the ignition of a certain explosive atmosphere.	Zones 1 + 2 following special testing Zone 0
"nA" "nC" "nR"	IEC 60079-15 EN 60079-15	**Equipment protection by type of protection "n":** Electrical equipment of group II for use in areas in which an explosive mixture of gas, vapor or mist is unlikely to occur during normal operation and, if it does, will be for a short period.	Zone 2:
"m"	IEC 60079-18 EN 60079-18	**Equipment protection by cast encapsulation:** Dangerous electrical equipment is embedded in a cast mass. This corresponds approximately to the known special Ex s protection type.	Zones 1 + 2
	IEC 60079-25 EN 60079-25	**Intrinsically safe electrical systems "i":** Assembly of interconnected electrical equipment in which the circuits intended for use, as a whole or in part, in hazardous environments are intrinsically safe. It is documented accordingly in the system description	Zones 1 + 2 following special testing Zone 0

Harzardous Areas
Hazardous areas are zones in which the atmosphere may become explosive. An explosive atmosphere is a mixture of flammable substances in the form of gases, vapors or mixtures with air under atmospheric conditions in critically mixed ratios such that excessive high temperature, arcs or sparks may cause an explosion.

EN 60079-10-1/EN 60079-10-2 and all other well-known standards rank hazardous areas according to the likelihood of the occurrence of an explosive atmosphere into the following zones:



Hazardous areas due to explosive gases, vapors and mists:

Zone 0

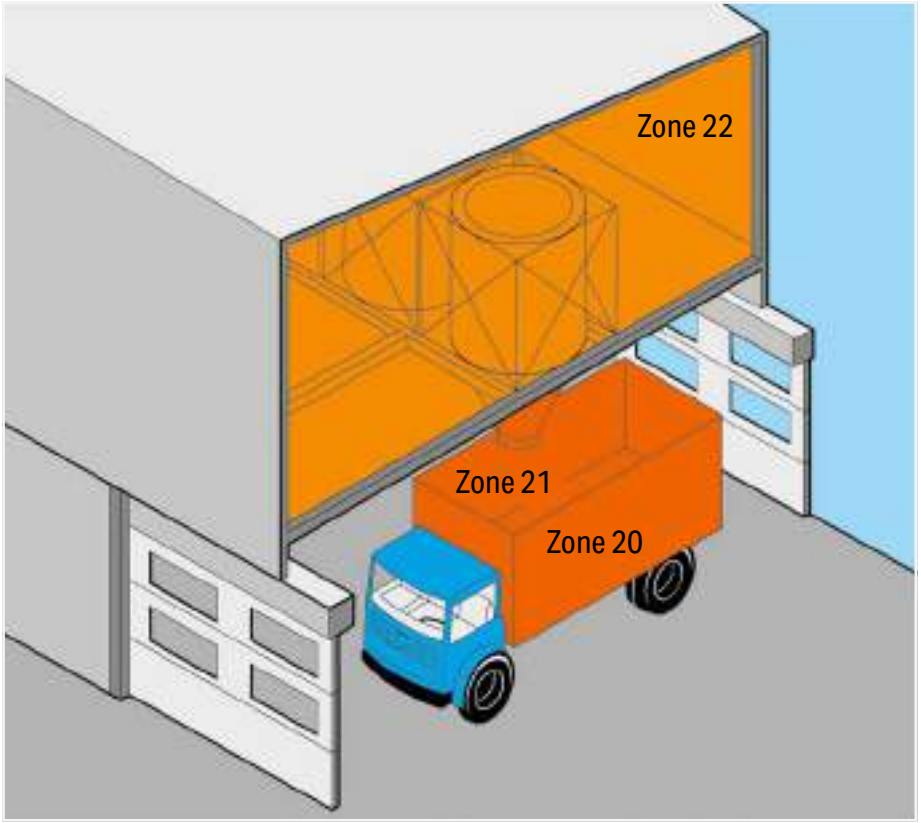
Area in which an explosive gas atmosphere is present continuously, for long periods or frequently.

Zone 1

Area in which an explosive gas atmosphere is likely to occur periodically or occasionally during normal operation.

Zone 2:

Area in which an explosive gas atmosphere is unlikely to occur during normal operation; if it does occur, then it is temporarily.



Hazardous areas due to explosive dust/air mixtures:

Zone 20

Area in which an explosive dust atmosphere due to dust/air mixtures is present continuously, for long periods or frequently.

Zone 21

Area in which an explosive dust atmosphere due to dust/air mixtures is likely to occur occasionally during normal operation.

Zone 22

Area in which an explosive dust atmosphere due to flammable dust/air mixtures is unlikely to occur during normal operation; but if it occurs, then only for a short period of time.

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

EN 60079-0 also classifies electrical equipment for use in hazardous areas into two groups:

Group I:
Electrical equipment for mines susceptible to firedamp

Group II:
Electrical equipment for hazardous areas, except for mines susceptible to firedamp.

As this broad application range encompasses a large number of potentially flammable gases, Group II is broken down into subgroups IIA, IIB and IIC.
This breakdown is based on different gases/materials exhibiting differing ignition power levels as parameters. Therefore, representative gases have been allocated to these three sub-groups:
- IIA – Propane
- IIB – Ethylene
- IIC – Hydrogen

WAGO's terminal blocks can be used both in Group I and Group II.

This information is given under Item 12 in the EU Prototype Test Certificates, based on which the terminal blocks have been approved for Group I and Group II.

Temperature Class	Maximum Surface Temperature (°C)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Depending on the maximum surface temperature, electrical equipment in Group II are classified in temperature categories T1 to T6 for all protection types. The surrounding air temperature, which must be accounted for in dimensioning, is defined as 40°C/104°F (deviations are acceptable under some conditions).
Terminal blocks for "e" (increased safety) protection type are generally assigned to temperature category T 6. When rail-mount terminal blocks are used in equipment of temperature categories T1 to T5, ensure that the highest temperature on the insulating parts does not exceed 85°C (185°F).
The highest measured surface temperature rise must not exceed 40 K.

Minimum Ignition Power of Typical Gases:

Explosion Group	I	IIA	IIB	IIC
Gas	Methane	Propane	Ethylene	Hydrogen
Ignition Power	280	250	82	16

The following are the most important design requirements for terminal blocks for external supply conductors to electrical equipment:
These must:
- be sufficiently large to permit reliable connection of external supply conductors with cross section of at least the size required by the nominal current of the equipment
- be protected against self-loosening and designed such that the supply conductors cannot slip out of their clamping units
- be designed such that adequate contact pressure is ensured without damaging the conductors
- be designed such that their contact pressure does not change with temperature cycling
- be equipped with a spring connecting link for the connection of stranded conductors
- be designed so as to allow secure connection of smaller conductors for terminal blocks up to 4 mm² (12 AWG).

Thermal resistance of the insulation material must be at least 20°C (68°F) greater than the highest operating temperature. Low temperature stability is considered to be sufficient when the insulation material can withstand 24-hour storage at a temperature of −60°C (−76°F) without nullifying the type of protection.

Special Requirements "Increased Safety Ex e"
The European EN 60079-7 Standard – VDE 0170-6 Classification – or the EN IEC 60079-7 Standard in the UK contain special requirements for the design and testing of electrical equipment with "e" (increased safety) protection type for hazardous areas. This standard is a supplement to EN 60079-0 or EN IEC 60079-0 and applies to equipment or parts thereof that neither generate sparks or arcing under normal operating conditions, nor exhibit hazardous temperatures.
This standard describes special measures, which have to be observed to obtain a safety degree according to the "e" (increased safety) protection type.
Ex components such as rail-mount terminal blocks are covered by Section 4.2 "Terminal Blocks for External Conductors":
- The connectors must be installed in an enclosure meeting the requirements of a recognized protection type per EN 60079-0 and EN IEC 60079-0, Section 1 or EN 60079-31.
- When installing the terminal blocks in an enclosure of protection type "e" (increased safety) per EN 60079-7 or the EN IEC 60079-7 Standard in the UK, the clearances and creepage distances of Table 2 must be observed. When using accessories, the installation instructions of the manufacturer must be observed.
- The connectors meet the requirements of the Group I Category M2 (I M 2) components.
- Please also observe the "Schedule of Limitations" in the individual certificates.
- The use of this component requires a new assessment by a notified certification agency.
- Please also observe the "Schedule of Limitations" in the individual certificates.

Classification of insulation materials according to their tracking resistance is based on their Comparative Tracking Index (CTI) and is defined in Table 1 as follows:
This classification applies to insulating parts without ribs or grooves.
If the insulating parts have ribs or grooves sufficiently large to be considered, the minimum creepage distances must be set according to values for the insulation materials in the next-higher level (e.g., Group I, instead of Group II).
Accounting for the surrounding air temperature of 40°C (104°F) specified for electrical equipment, the current-carrying capacity of rubber-insulated conductors is reduced to 82%, based on DIN VDE 0298-4:2013-06, Table 12 and to 87% for PVC-insulated conductors for the current-carrying capacity defined for 30°C (86°F) in accordance with DIN VDE 0298-4:2013-06, Item 4.3.3.

It is expressly prohibited to use insulating parts for transferring contact forces. Terminal blocks with sharp edges which could damage supply lines and those types that can be rotated, turned or permanently deformed when fixed in place are not permitted for use. Terminal blocks for internal connections in electrical equipment must not be subjected to excessive mechanical stress. These items must fulfill the requirements for terminal blocks used for external supply conductors.
Clearances between conductive parts having different potentials must be at least 3 mm for external connections, as specified in Table 2. The value of the creepage distances depends on the working voltage, surface geometry of the insulating parts and tracking resistance of the insulation material.
Grooves on the surface may only be considered if they are at least 2.5 mm deep and wide; ribs on the surface only if their height is at least 2.5 mm and their width corresponds to the mechanical strength of the material, however not smaller than 1 mm.

Conductor Types and Conductor Preparation
In accordance with EN 60079-14/DIN VDE 0165-1, the ends of stranded and fine-stranded conductors must be protected against splaying (e.g., via cable lugs or ferrules) or by the type of terminal blocks used. Soldering alone is not sufficient.
According to EN 60069-7/DIN VDE 0170-6, connecting electrical equipment to terminal blocks having an "e" (increased safety) protection type must not lead to a reduction of the clearances and creepage distances.
Based on experience through the application of terminal blocks in aggressive atmospheres in the chemical industry, WAGO recommends gas-tight tinned copper ferrules or tinned copper pin terminals when connecting fine-stranded conductors to terminal blocks in corrosive atmospheres.

Table 1– Tracking Resistance for Insulation Materials

Material Group	Comparative Tracking Index
I	600 ≤ CTI
II	400 ≤ CTI < 600
III a	175 ≤ CTI < 400
III b	100 ≤ CTI < 175

Table 2– Minimum Creepage Distances/Clearances and Isolations

Voltage (see [a] and [b]) RMS Value for AC or DC Voltage V	Minimum Creepage Distance mm								Minimum Clearance and Isolations mm		
	Material Group								Clearance mm		Distance under Coating[d]
	I		II		III a		III b				
	"eb"	"ec"	"eb"	"ec"	"eb"	"ec"	"eb"	"ec"	"eb"	"ec"	"ec"
≤ 10 (see [c])	1.6	1	1.6	1	1.6	1	–	1	1.6	0.4	0.3
≤ 12.5	1.6	1.05	1.6	1.05	1.6	1.05	–	1.05	1.6	0.4	0.3
≤ 16	1.6	1.1	1.6	1.1	1.6	1.1	–	1.1	1.6	0.8	0.3
≤ 20	1.6	1.2	1.6	1.2	1.6	1.2	–	1.2	1.6	0.8	0.3
≤ 25	1.7	1.25	1.7	1.25	1.7	1.25	–	1.25	1.7	0.8	0.3
≤ 32	1.8	1.3	1.8	1.3	1.8	1.3	–	1.3	1.8	0.8	0.3
≤ 40	1.9	1.4	2.4	1.6	3	1.8	–	1.8	1.9	0.8	0.6
≤ 50	2.1	1.5	2.6	1.7	3.4	1.9	–	1.9	2.1	0.8	0.6
≤ 63	2.1	1.6	2.6	1.8	3.4	2	–	2	2.1	0.8	0.6
≤ 80	2.2	1.7	2.8	1.9	3.6	2.1	–	2.1	2.2	0.8	0.8
≤ 100	2.4	1.8	3	2	3.8	2.2	–	2.2	2.4	0.8	0.8
≤ 125	2.5	1.9	3.2	2.1	4	2.4	–	2.4	2.5	1	0.8
≤ 160	3.2	2	4	2.2	5	2.5	–	2.5	3.2	1.5	1.1
≤ 200	4	2.5	5	2.8	6.3	3.2	–	3.2	4	2	1.7
≤ 250	5	3.2	6.3	3.6	8	4	–	4	5	2.5	1.7
≤ 320	6.3	4	8	4.5	10	5	–	5	6	3	2.4
≤ 400	8	5	10	5.6	12.5	6.3	–	6.3	6	4	2.4
≤ 500	10	6.3	12.5	7.1	16	8	–	8	8	5	2.4
≤ 630	12	8	16	9	20	10	–	10	10	5.5	2.9
≤ 800	16	10	20	11	25	12.5	–	–	12	7	4
≤ 1000	20	11	25	11	32	13	–	–	14	8	5.8
≤ 1250	22	12	26	12	32	15	–	–	18	10	–
≤ 1600	23	13	27	13	32	17	–	–	20	12	–
≤ 2000	25	14	28	14	32	20	–	–	23	14	–
≤ 2500	32	18	36	18	40	25	–	–	29	18	–
≤ 3200	40	22	45	22	50	32	–	–	36	22	–
≤ 4000	50	28	56	28	63	40	–	–	44	28	–
≤ 5000	63	36	71	36	80	50	–	–	50	36	–
≤ 6300	80	45	90	45	100	63	–	–	60	45	–
≤ 8000	100	56	110	56	125	80	–	–	80	56	–
≤ 10000	125	71	140	71	160	100	–	–	100	70	–
≤ 12500	–	90	–	90	–	125	–	–	–	89	–
≤ 13640	–	98	–	98	–	138	–	–	–	97	–

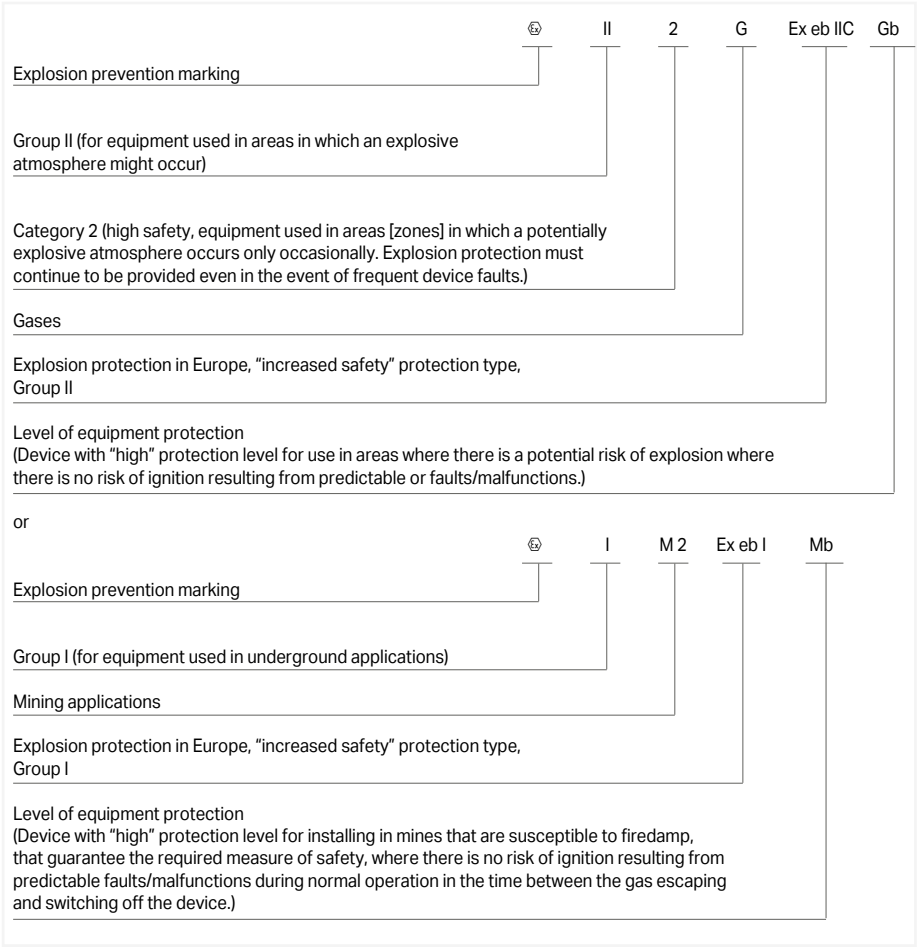
[a] When determining the required values for creepage distances and clearances, the working voltage may be 1.1 times higher than the value in the table.
NOTE: The factor of 1.1 takes into account that in many places in a circuit the working voltage is equal to the rated voltage and that a number of rated voltages are used, which are covered by a factor of 1.1.
[b] The specified values for creepage distances and clearances already take into account a 10% tolerance for the highest supply voltage. Therefore, further considerations on the voltage fluctuations are unnecessary for determining which voltage value from the table should be used.
[c] CTI values are not applicable for voltages of 10 V or less. Materials that do not meet the requirements of material group III a can be used.
[d] The specified distances under consideration apply to printed circuit boards in protection level "ec" after 4.5.

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

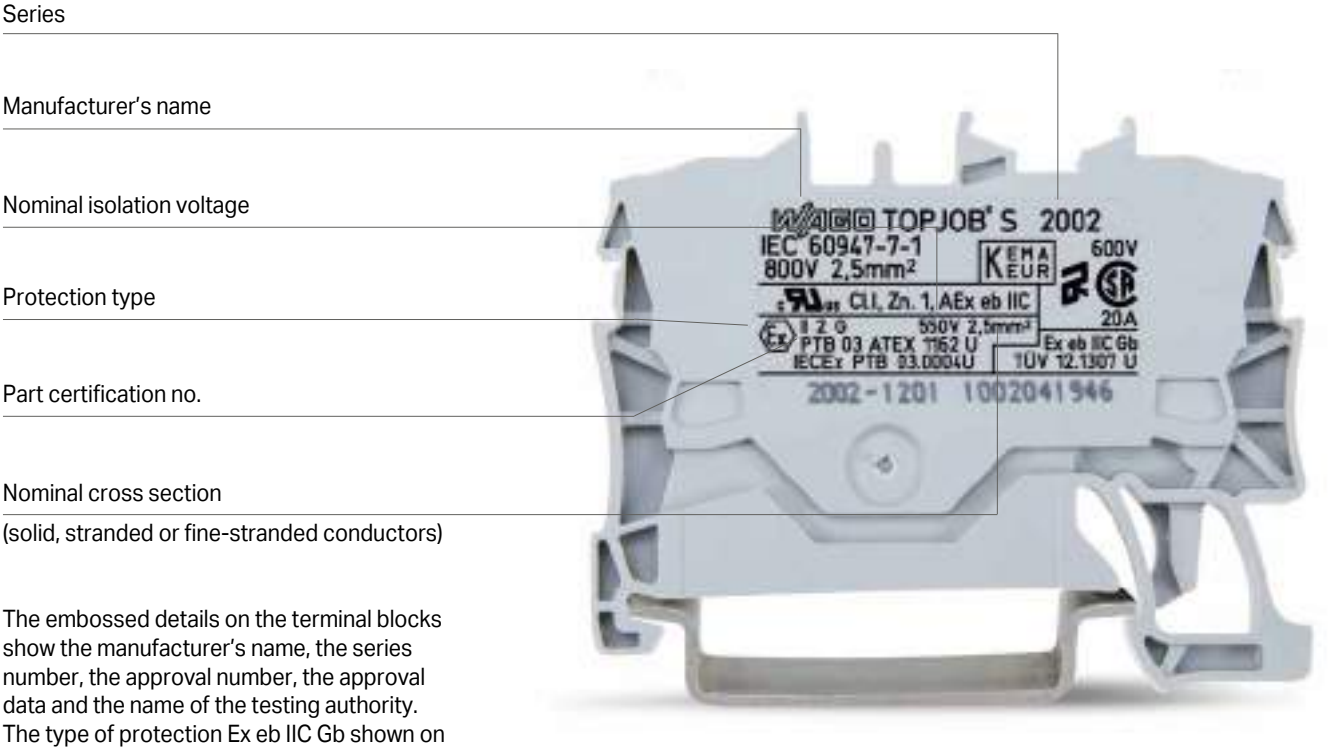
Approvals

Terminal blocks may be used in Zones 1 and 2, provided that the terminal blocks are accommodated in an enclosure that has a minimum IP54 protection and an Ex e certification.
Terminal blocks are considered to be Ex components because they are a part of the equipment. Part certificates provided by Ex Certification Agencies serve as a basis for issuing the complete conformity declaration for the unit.
An EC-type examination certificate is issued in accordance with the 2014/34/EU ATEX Directive.
In addition, an IEXEx Certificate may also be obtained from an appropriate, recognized certification agency in accordance with the IECEx Certification Agreement that is accepted throughout Europe and also in countries such as Canada, China and Australia.
These certificates can also be viewed at: www.iecex.com.

Terminal block marking per 2014/34/EU ATEX Directive:



Example of marking (rear):



The embossed details on the terminal blocks show the manufacturer's name, the series number, the approval number, the approval data and the name of the testing authority. The type of protection Ex eb IIC Gb shown on the label or on the smallest packaging unit.

Terminal blocks for Class I, Zone 1, Ex eb IIC hazardous locations can be approved for Ex applications per UL 60079-7 standard.
As a result of international harmonization efforts, the UL certificate can be issued on the basis of EN 60079-0 or EN 60079-7 standards, provided that the terminal blocks have also been approved per UL 1059 (ordinary location).

If desired by the applicant, terminal blocks can simultaneously be approved in accordance with the Canadian Standards CAN/CSA-C22.2 No. 60079-0 and CAN/CSA C22.2 No. 60079-7 and released for use in Canada. The terminal blocks are marked with c UL us Cl. I, Zn. 1, AEx eb IIC.

EU-type examination certificates have been granted to all WAGO terminal blocks listed in this catalog.
WAGO terminal blocks approved for use in Ex eb IIC areas are manufactured of flame-resistant, self-extinguishing Polyamide 66. The same applies to the terminal blocks used in non-hazardous areas. Tracking resistance with a CTI value of 600 as per IEC 60112 and a constant operating temperature of 105°C (22°F) in accordance with IEC 60216-1 and -2 are provided.
Factory part quality tests are performed on all CAGE CLAMP® rail-mount terminal blocks with Ex eb IIC approval to monitor and ensure the quality features described above.


IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

Ex COMPONENT CERTIFICATE


EU-Baumusterprüfbescheinigung

PTB 18 ATEX 1005 U Ausgabe: 0

IEC 60079-0:2017, EN 60079-7:2015

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

Special Requirements
Equipment Protection by Intrinsic Safety "i"
The European EN 60079-11 Standard – Classification VDE 0170-7 – contains special requirements for the design and testing of electrical equipment with "i" (intrinsic safety) protection type for use in hazardous areas.

A circuit is "intrinsically safe" when, under normal operating conditions and in the event of specific fault conditions, no sparks or thermal effects can occur and cause the ignition of a certain explosive atmosphere.

A distinction is made here between:
- intrinsically safe electrical equipment when all circuits are intrinsically safe
- associated electrical equipment including both intrinsically and non-intrinsically safe circuits, and being designed such that the non-intrinsically safe circuits cannot affect the intrinsically safe ones.

Intrinsically safe electrical equipment and intrinsically safe parts of associated electrical equipment are classified at "ia", "ib" or "ic" protection level.
Electrical equipment classified Ex "ia" must not ignite when current is applied in the following cases:
a) During fault-free operation, with those non-discreet faults present that result in the most adverse condition
b) During fault-free operation and with a discreet fault, plus those non-discreet faults that result in unfavorable conditions
c) During fault-free operation with two discreet faults, plus those non-discreet faults that result in the most adverse conditions.

Electrical equipment classified Ex "ib" must not ignite when current is applied in the following cases:
a) During fault-free operation, with those non-discreet faults present that result in the most adverse condition
b) During fault-free operation and with a discreet fault, plus those non-discreet faults that result in unfavorable conditions.
At applied voltages, the intrinsically safe circuits in electrical equipment of protection level "ic" shall not be capable of causing ignition during undisturbed operation and under the conditions specified in this standard.
No special approval is required for terminal blocks used as simple electrical equipment for "Ex i" protection type, as they do not contain a voltage source and precise information is available concerning electrical data and temperature rise performance.
The terminal blocks must be identifiable, for example by their type designation, and the following design requirements must also be upheld:
Clearances and creepage distances between bare conductive parts of terminal blocks of separate intrinsically safe circuits and grounded or floating conductive parts shall be equal to or greater than the values given in Table 5 (see 672). If separate intrinsically safe circuits are to be considered, the air gap between bare conductive parts of the outer connection parts must meet the following requirements:
– at least 6 mm between the separate intrinsically safe circuits
– at least 3 mm from grounded parts, if a possible connection to ground has not been considered in the safety analysis. Each possible motion of metallic parts that are not rigidly secured must be considered.
Terminal block marking must be unique and clearly visible. If a color is used for this, the color must be light blue (similar to RAL 5015).
Note also when using terminal blocks:
Terminal blocks used for intrinsically safe circuits must be isolated from those used in non-intrinsically safe circuits. This is accomplished by several accepted methods. First, intrinsically safe circuits are separated by at least 50 mm of air space from non-intrinsically safe circuits.

Second, intrinsically safe circuits are housed in a separate enclosure. Third, intrinsically safe terminal blocks are separated from non-intrinsically safe terminal blocks by either an insulated partition or grounded metal partition. The partition size must allow for either 1.5 mm or less distance from the sides of the housing or provide at least 50 mm of creepage distance between the intrinsically and non-intrinsically safe circuits in all directions.
The insulation between an intrinsically safe and a non-intrinsically safe circuit has to withstand an effective AC voltage of 2 x nominal value (U) 1000 V or a minimum of 1500 kV, whereby U represents the total of the effective voltages of the intrinsically safe and the non-intrinsically safe circuit.
Short circuit between different intrinsically safe circuits could cause dangerous conditions. The insulation between these circuits should withstand an effective voltage of at least 500 VAC or 2 UAC where U is the total of the effective voltages of the related circuits.
In accordance with EN 60079-14/ DIN VDE 0165-1, in intrinsically safe circuits, the ends of stranded and fine-stranded conductors must be protected against splaying (e.g., via cable lugs or ferrules) or by the type of terminal blocks used. Soldering alone is not sufficient.
WAGO recommends gas-tight tinned copper ferrules or tinned copper pin terminals when connecting fine-stranded conductors to terminal blocks in corrosive atmospheres.

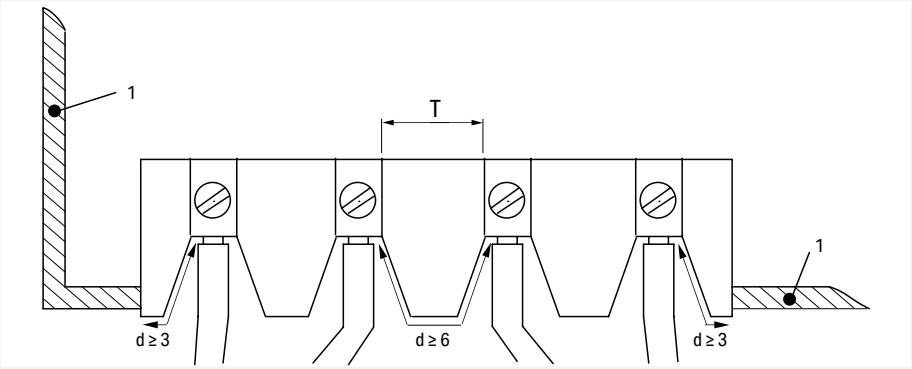
Requirements pertaining to the necessary distances as appropriate for use of the terminal blocks in the area DIN EN 60079-11 (VDE 0170-7) "Explosive atmosphere – Part 11: Device protection by intrinsically safe features "i" (IEC 60079-11)" are defined under Section 6.2 "Connecting point for external circuits," Section 6.2.1 "Terminal blocks." In general, the following can be stated for terminal blocks based on figure 1: "Example of isolated intrinsically safe terminal blocks with partition" in conjunction with figure 2: "Example of isolation of conductive parts," considering Table 5 – "Clearances, Creepage and Isolation Distances."

Outside:
a) Isolated intrinsically safe circuits: at least 6 mm
All PCB terminal blocks listed on the ordering pages as suitable for Ex "i" applications fulfill these requirements.
b) Intrinsically safe circuits and normal circuits (non-intrinsically safe): ≥ 50 mm

Inside:
a) Ex "i" to Ex "i"
b) Ex "i" to normal circuits
c) Ex "i" to ground
Based on Figure 2 and Table 5 (see next page) in accordance with the selected protection level and the special requirements for isolation distances as described in Sections 6.3.1 to 6.3.13, or in accordance with the alternative procedure for dimensioning of isolation distances given in Annex F.

Terminal blocks with smaller pin spacing may also be used for internal connections, provided they meet the requirements laid out in Table 5 (see below).

The exact clearances and creepage distances as well as separation distances based on Table 5 must be derived from the application items cited above.



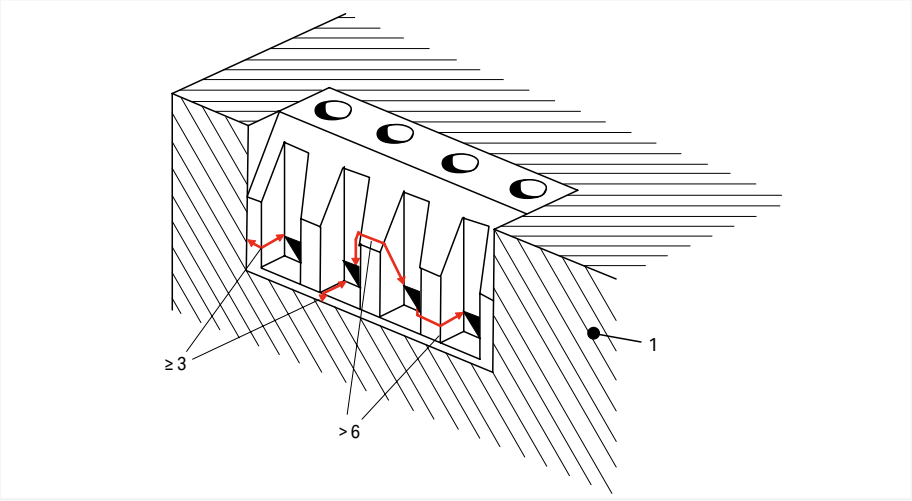


Figure 1a: Requirements for clearances and creepage distances for terminal blocks with isolated, intrinsically safe circuits

Legend:

1	Conductive cover
T	Distances based on Table 5
d	Distance at outer connecting parts of the terminal blocks according to 6.2.1

Note:
The dimensions indicated here represent the clearances and creepage distances around the insulation and not the thickness of the insulation.

Dimensions in mm

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

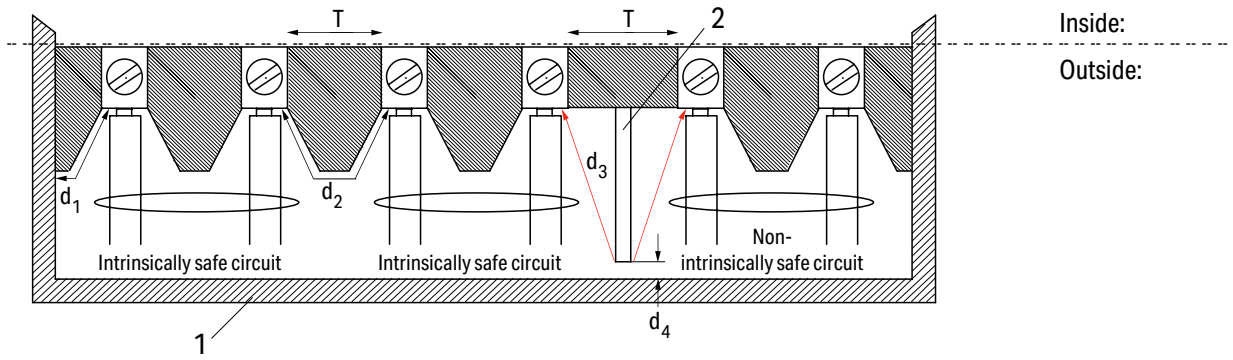


Figure 1b: Example of isolated intrinsically safe and non-intrinsically safe terminal blocks by a partition

Legend:

1 Cover: non-conductive or conductive and grounded

2 Partition based on 6.2.1 b); in this example, the partition must end at the base

T Distances based on Table 5

d1 ≥ 3 mm, when the cover is conductive and grounded

d2 ≥ 6 mm

d3 ≥ 50 mm or d4 ≤ 1.5 mm

Note:
The dimensions indicated here represent the clearances around the insulation and not the thickness of the insulation.

Table 5 – Clearances, Creepage and Isolation Distances

1	2		3		4		5		6		7	
Voltage (Peak) (V)	Clearance (in mm)		Separation by Encapsulation (in mm)		Separation by Fixed Insulation (in mm)		Creepage Distance through Air (in mm)		Creepage Distance beneath Protective Layer (in mm)		Comparative Tracking Index (CTI)	
Protection Level	ia, ib	ic	ia, ib	ic	ia, ib	ic	ia, ib	ic	ia, ib	ic	ia	ib, ic
10	1.5	0.4	0.5	0.2	0.5	0.2	1.5	1.0	0.5	0.3	--	
30	2.0	0.8	0.7	0.2	0.5	0.2	2.0	1.3	0.7	0.3	100	100
60	3.0	0.8	1.0	0.3	0.5	0.3	3.0	1.9	1.0	0.6	100	100
90	4.0	0.8	1.3	0.3	0.7	0.3	4.0	2.1	1.3	0.6	100	100
190	5.0	1.5	1.7	0.6	0.8	0.6	8.0	2.5	2.6	1.1	175	175
375	6.0	2.5	2.0	0.6	1.0	0.6	10.0	4.0	3.3	1.7	175	175
550	7.0	4.0	2.4	0.8	1.2	0.8	15.0	6.3	5.0	2.4	275	175
750	8.0	5.0	2.7	0.9	1.4	0.9	18.0	10.0	6.0	2.9	275	175
1000	10.0	7.0	3.3	1.1	1.7	1.1	25.0	12.5	8.3	4.0	275	175
1300	14.0	8.0	4.6	1.7	2.3	1.7	36.0	13.0	12.0	5.8	275	175
1575	16.0	10.0	5.3	*	2.7	*	49.0	15.0	16.3	*	275	175
3.3k	*	18.0	9.0	*	4.5	*	*	32.0	*	*	*	*
4.7k	*	22.0	12.0	*	6.0	*	*	50.0	*	*	*	*
9.5k	*	45.0	20.0	*	10.0	*	*	100.0	*	*	*	*
15.6k	*	70.0	33.0	*	16.5	*	*	150.0	*	*	*	*

Note 1: *At present, no values have been recommended for these voltages.

Note 2: Proof of fulfillment of the CTI requirements for the insulating materials must be provided by the manufacturer.
Defining a CTI is not required for insulation materials for voltage levels up to 10 V.

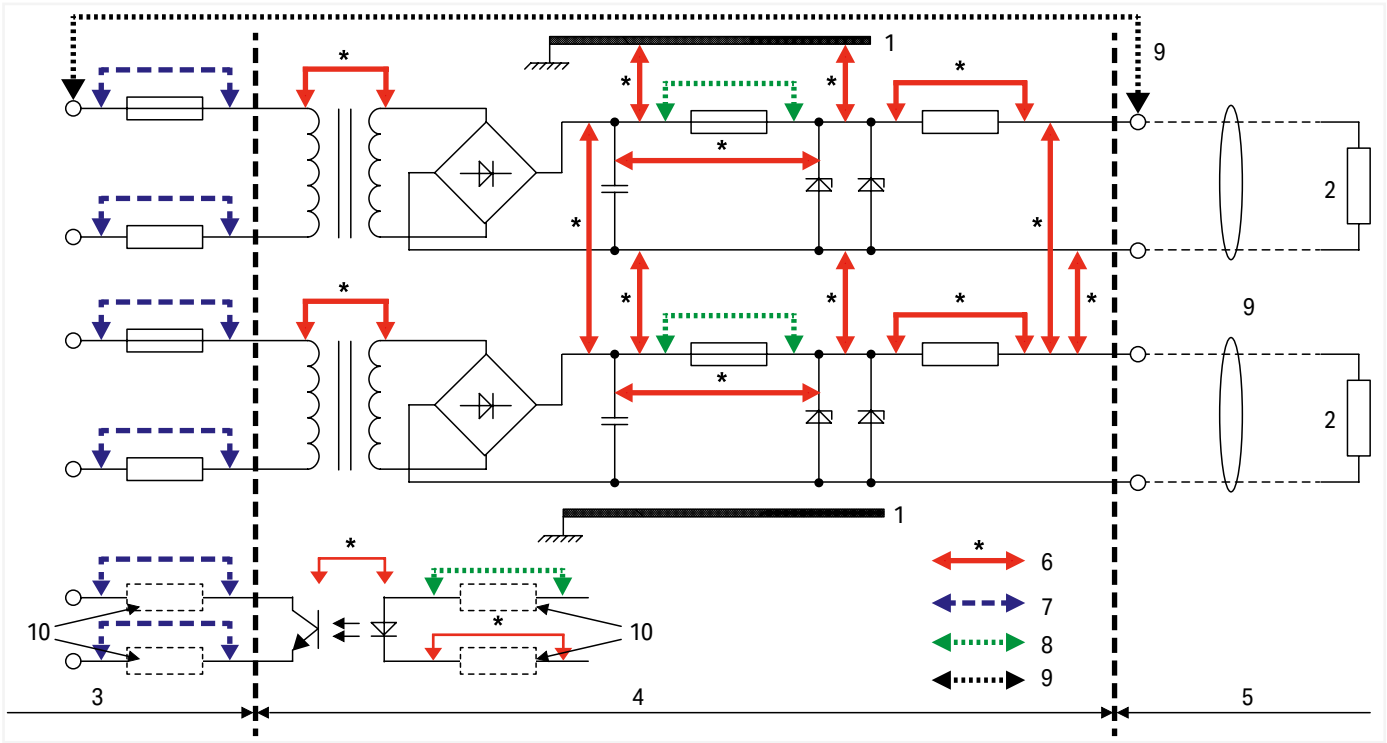


Figure 2: Isolation examples for conductive parts

Legend:

1	Chassis
2	Load
3	Non-intrinsically safe circuit defined by U_m
4	Portion of intrinsically safe circuit, item is not intrinsically safe
5	Intrinsically safe circuit
6	Dimensions for which Table 5 applies
7	Dimensions for which general industrial standards apply
8	Dimensions per 7.3
9	Dimensions based on 6.2.1 for output terminal blocks between isolated intrinsically safe circuits (d2 ≥ 6 mm) and between intrinsically safe circuits and non-intrinsically safe circuits (d3 ≥ 50 mm)
10	Where required

In accordance with DIN EN 60079-14 (VDE 0165-1), in intrinsically safe circuits, the ends of stranded and fine-stranded conductors must be protected against splaying (e.g., via cable lugs or ferrules) or by the type of terminal blocks used. Soldering alone is not sufficient.
The conductor entry funnels of WAGO PCB terminal blocks fulfill this requirement.
WAGO recommends gas-tight tinned copper ferrules or tinned copper pin terminals when connecting fine-stranded conductors to terminal blocks in corrosive atmospheres.

International Certification Organizations – Overview

		Abbreviation
	Underwriters Laboratories USA http://www.ul.com	UL
	Underwriters Laboratories USA http://www.ul.com	UL
	Underwriters Laboratories USA http://www.ul.com	cURus
	Underwriters Laboratories USA http://www.ul.com	cULus
	Canadian Standards Association Canada http://www.csa.ca	CSA
VDE REG XXXX	VDE-Gutachten mit Fertigungsüberwachung Germany http://www.vde.de/vde/html/e/home.htm	VDE
	VDE – Deutscher Verband für Elektrotechnik Germany http://www.vde.de	
VDE	VDE – Prüfbericht Germany	
	Österreichischer Verband für Elektrotechnik Austria http://www.ove.at	ÖVE
	Schweizerischer Elektrotechnischer Verein Switzerland http://www.sev.ch/	SEV
KEMA KEUR	N.V. tot Keuring van Elektrotechnische Materialien Netherlands http://www.kema.nl	KEMA
CCA	CENELEC CERTIFICATION AGREEMENT N.V. tot Keuring van Elektrotechnische Materialien Netherlands http://www.cenelec.org	CCA Zul.-Nr. mit NL
	Norges Elektriske Materialkontroll Norway http://express.nemko.com	NEMKO
	Svenska Elektriska Materielkontrollanstalten AB Sweden http://www.semko.com	SEMKO

		Abbreviation
	Danmarks Elektriske Materielkontrol Denmark http://www.demko.dk	DEMKO
CCA D	CENELEC CERTIFICATION AGREEMENT Danmarks Elektriske Materielkontrol Denmark http://www.cenelec.org	CCA Zul.-Nr. mit NL
FI	SETI – FEMKO Sähkötarkastuskeskus Elinspektionscentralen Finland http://www.seti.fi	
FI	Sähkötarkastuskeskus Elinspektionscentralen Finland http://www.fimko.com	FIMKO
SABS	South African Bureau of Standards South Africa http://www.sabs.co.za	SABS
	RosTesT Russia http://www.rostest.ru	ROTEST
	Departamentul Moldovastandard Moldova http://www.moldova.md/ro/government/oll/D_STAND/en/strcent2.htm	CSM
	Certificate of Registration Great Britain http://www.astacertification.com	ASTA
RWTÜV	Rheinisch-Westfälischer Technischer Überwachungsverein e.V. Germany http://www.rwtuv.de	RWTÜV
	Elektrotechnick´y v´yskumn´y a projektov´y ústav Czech Republic http://www.ezu.cz	EZU
BBJ	Stowarzyszenie Elektrykow Polskich Poland http://www.sep.com.pl	BBJ
BBJ	Stowarzyszenie Elektrykow Polskich Poland http://www.bbj.pl	SEP

		Abbreviation
CNET	Centre National d'Etudes des Télécommunications France http://www.lannion.cnet.fr	CNET
LCIE	Laboratoire Central des Industries Electriques France http://www.lcie.fr	LCIE
FTZU SZ 210	Fyzikálne Technick´yZkusební Ústav, Ostrava-Radvanice Czech Republic http://www.ftzu.cz	FTZU
Marine Approvals		
BV	Bureau Veritas France http://www.bureauveritas.fr	BV
Lloyd's Register	Lloyd's Register of Shipping Great Britain http://www.lloydsregister.com	LR
DNV • GL	NV – Det Norske Veritas Norway http://www.dnvgl.com	DNV-GL
	Russian Maritime Register of Shipping GUS http://www.rs-head.spb.ru	RMR
	Polski Rejestr Statków Poland http://www.prs.pl	PRS
	Korean Register of Shipping Korea http://www.krs.co.kr	KR
ABS	American Bureau of Shipping USA http://www.eagle.org	ABS

		Abbreviation
BKI Ex	Robbanásbiztos Villamos Berendezések Hungary http://www.bki.hu	BKI
CB	CB – TEST CERTIFICATE India http://www.ul-europe.com	CB
CB	CB – TEST CERTIFICATE China http://www.ul-europe.com	CB
ENEC	http://www.enec.com	ENEC
EX Approvals		
PTB	Physikalisch Technische Bundesanstalt Germany http://www.ptb.de	PTB
c UL us	Underwriters Laboratories USA http://www.ul.com	AEx

Electrical Engineering Laboratory
Product Safety for Our Customers

To use terminal blocks globally, they must satisfy certain standards and obtain test certificates. These requirements apply to every manufacturer. WAGO also conducts its own tests to increase standards and offer greater reliability with its products. Products undergo a full range of mechanical, electrical and climatic testing, and we'll share a few of those processes with you.

WAGO Test Lab

This means that WAGO's products can be used safely and reliably both in Europe and anywhere globally for a wide variety of applications. We heavily emphasize the importance of global acceptance during development. As a result, we can present documentation that verifies our high levels of product safety and reliability while ensuring the fulfillment and accuracy of technical data, which are the highest priorities for our customers and users worldwide.
On December 22, 2009, our test lab was accredited by the German Accreditation Association (Deutsche Gesellschaft für Akkreditierung GmbH) in accordance with DIN EN ISO/IEC 17025.

Pull-Out Test (per EN 60947-7-1, EN 60998-2-2)

During the pull-out force test, a conductor is pulled on until it is removed from the clamping unit. The design of the terminals means that extraction only occurs after the standard pull-out force has been exceeded many times over.



Vibration Test (per IEC/EN 60068-2-6)

Depending on the application, such as railway (per EN 61373) or marine (per GL, LR, DNV), there are various testing requirements to determine if the long-term effects of vibrations degrade electrical connections. The test specimen is subjected to different loads on three axes in an electrodynamic vibration system. The amplitude, the acceleration, and particularly the frequency of the vibration vary during the test. The test values are increased many times over the standard values to meet special customer requirements.



Shock Test (per IEC/EN 60068-2-27)

The shock test is very similar to the vibration test except that, instead of continuous vibrations, single shocks are applied to the test specimen. Shock tests are usually performed, for example, at an acceleration of 20g over a period of 11 ms. Tests for special requirements often call for much higher values and are also conducted in our laboratory..



Voltage Drop Test under Bending Stress (per WAGO test requirements)

The voltage drop test under bending stress simulates mechanical stress on the clamping unit. In everyday use, this stress can occur during installation, for example, when an electrician shoves connected conductors to the side in order to access a specific component. The quality of the clamping unit when moving a connected conductor can be validated by the constantly stable measured value of the voltage drop.



DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Beliehene gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
Unterzeichnerin der Multilateralen Abkommen
von EA, ILAC und IAF zur gegenseitigen Anerkennung

Akkreditierung

Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass

das Prüflaboratiorium WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27, 32423 Minden

die Kompetenz nach DIN EN ISO/IEC 17025:2018 besitzt, Prüfungen in folgenden Bereichen durchzuführen:

Elektrische und mechanische Prüfungen an Klemmen und Steckverbinder sowie Umweltsimulation

Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 24.05.2019 mit der Akkreditierungsnummer D-PL-19704-01. Sie besteht aus diesem Deckblatt, der Rückseite des Deckblatts und der folgenden Anlage mit insgesamt 08 Seiten.

Registrierungsnummer der Urkunde: D-PL-19704-01-00

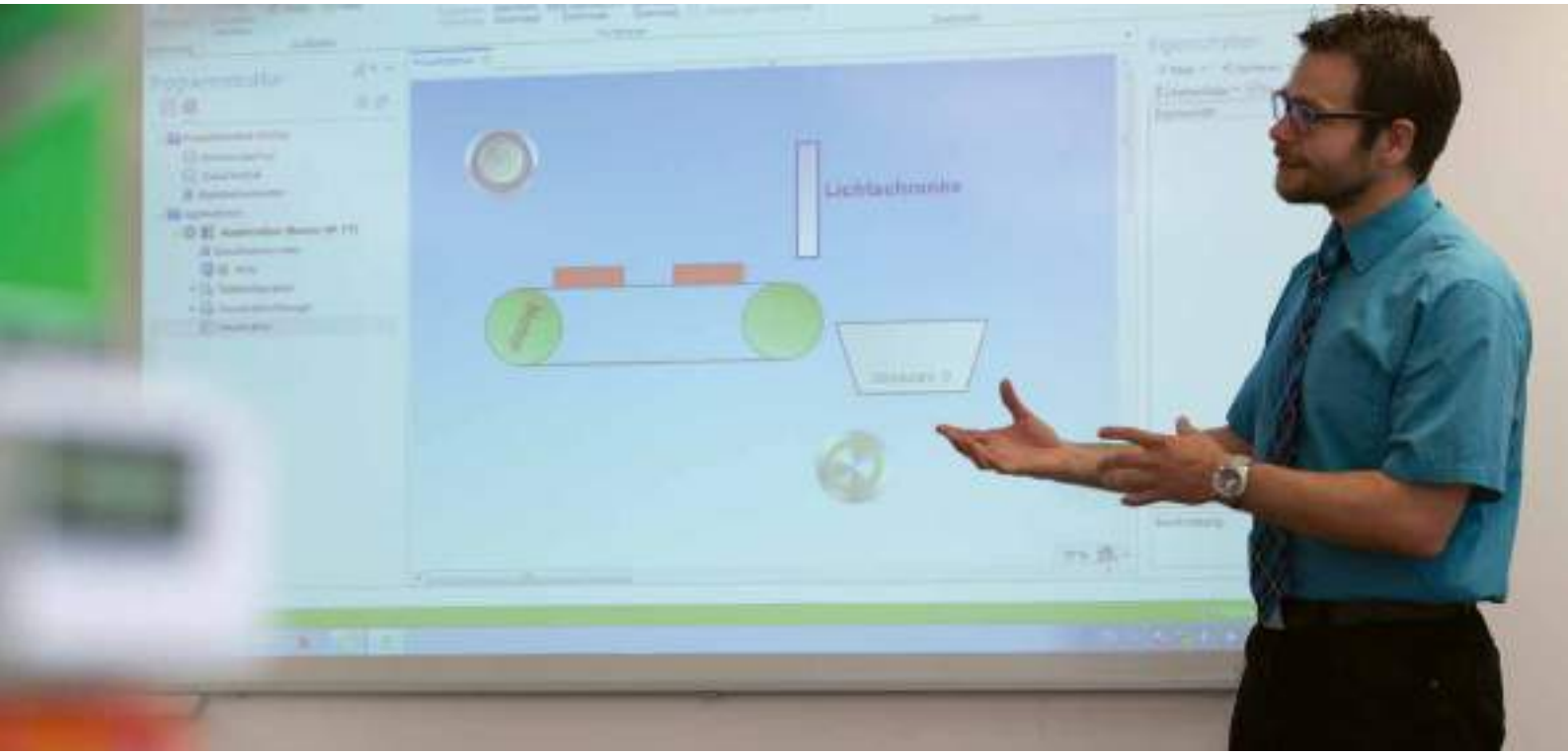
Frankfurt am Main, 14.05.2019

Im Auftrag Dipl.-Ing. (FH) Ralf Egner
Abteilungsleiter

Die Urkunde samt Urkundenanlage gibt den Stand zum Zeitpunkt des Ausstellungsdatums wieder. Der jeweils aktuelle Stand des Geltungsbereiches der Akkreditierung ist der Datenbank akkreditierter Stellen der Deutschen Akkreditierungsstelle GmbH (DAkkS) zu entnehmen. https://www.dakks.de/content/datenbank-akkreditierter-stellen

Siehe Rückseite

WAGO-Seminars
Learn Today – Benefit Tomorrow



Setting the Bar with Your Goals

Product-Related and Customer-Specific Seminars



Small Groups

The small class sizes of WAGO training seminars ensures that no question goes unanswered and no one is overlooked.



Teamwork

Learning as a group is very effective. Ideas can be discussed and exchanged while experiences can be shared – all for the benefit of the participants.



Practical Topics

Experience has shown that practice makes perfect. This is why the focus of every WAGO training seminar is on practical, hands-on learning.

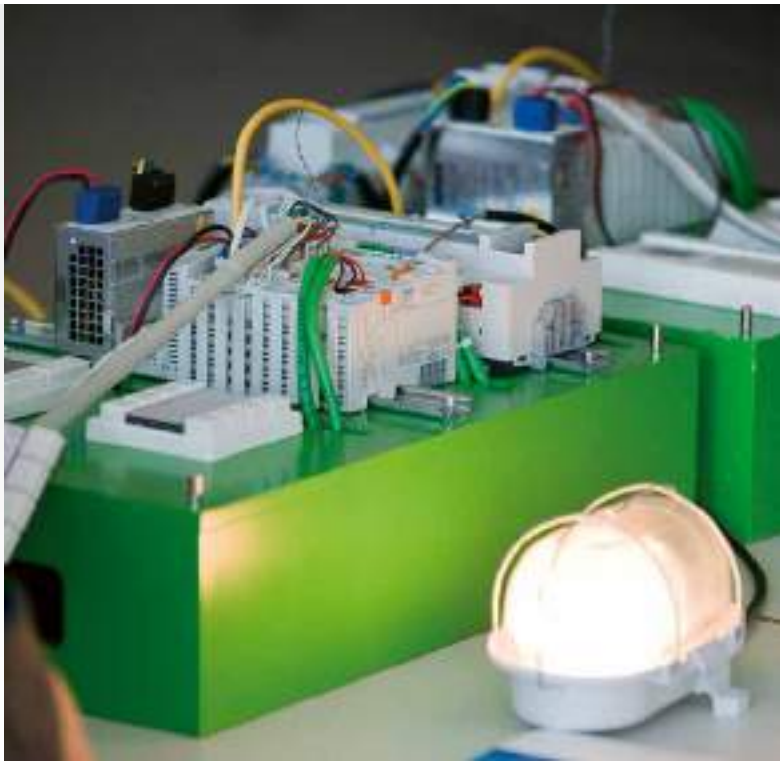
WAGO-Seminars
Experience the Benefits of First-Hand Knowledge and Expertise – Straight from the Source

Our instructors are specialists who know all the ins and outs of WAGO's products. This ensures that the time devoted to each WAGO training seminar is an effective investment in expanding your own expertise.

Request your registration form by email:

training@wago.com

Contact your local WAGO office.



Product-Related Seminars

We regularly offer product-related seminars on the following topics:

- Building and industrial automation
- Programming of automation components
- Fieldbus systems

Current Seminars at: www.wago.com

Customer-Specific Training Seminars

In addition to these "open" seminars, we also offer seminars specially tailored to your organization and its particular needs.

Upon request, we can also conduct these courses at your location.

Special Corporate Seminars



Indexes

Indexes

	Page
Product Index	780
Item Number Index	784
Environmental protection at WAGO Success for generations	802

Product Index

Item Page

A

Actuator and actuator LED terminal blocks
– Rail-mount terminal blocks, TOPJOB® S 148
– Rail-mount terminal blocks, Classic 399
– Rail-mount terminal blocks, Compact 523
Actuator terminal blocks; with a pluggable signal level 153
Additional modules for matrix patchboards 600
“Alu-Plus” contact paste 724
– Technical information 757
Angled support bracket 701
Assembly tool; for 294 Series 573

B

Banana plugs 722
Board sets 272
Busbar carriers 673
Busbar terminal blocks 611

C

Cable strippers 710
Cable cutter 720
Cable knife 710
CAGE CLAMP® connection 728
Carrier terminal blocks; f.-e. 378
– as double-, triple-deck terminal blocks 334
– TOPJOB® S 107
– with push-button 94
– as double-deck terminal blocks 86
– Multilevel installation terminal blocks, TOPJOB® S 260
– X-COM®S-SYSTEM-MINI 194
– X-COM®S-SYSTEM 212
– X-COM®S-SYSTEM; for Ex ec applications 228
– X-COM®-SYSTEM 436
CE marking 730
Certification organizations – overview 772
Chassis-mount terminal strips 558
CLASSIC splicing connectors for all conductor types 653
Collective jumper carriers 701
– TOPJOB® S 185
Comb-style jumper bars 425
Common potential and matrix patching terminal blocks (4- and 8-level terminal blocks) 604
Common potential matrix patchboards 596
COMPACT splicing connectors 615
COMPACT splicing connectors (4 mm²/12 AWG) for all conductor types 627
COMPACT splicing connectors (4 mm²/12 AWG); for Ex eb applications 636
COMPACT splicing connectors (6 mm²/10 AWG) for all conductor types 633
COMPACT splicing connectors (6 mm²/10 AWG); for Ex eb applications 637
Compact terminal blocks
– see “Mini (rail-mount) terminal blocks”
Compact terminal blocks 558
Compact terminal strips 527
Component plugs on carrier terminal blocks 166
Control cabinet outlet 699
Covers for rail-mount terminal blocks 704
Crimping tools for ferrules 714
Current-carrying capacity curves
– X-COM®-SYSTEM 495
Current transformer terminal blocks 136

D

Delta jumper 185
– Compact 513
Derating curves
– see “Current-carrying capacity curves”
DIN-rails 15 707
DIN-rails 35 700
Diode double-deck terminal blocks; f.-e. 412
– TOPJOB® S 172
– Compact 514

Item Page

D

Diode modules on carrier terminal blocks 416
– TOPJOB® S 160
Diode modules on through terminal blocks 417
– TOPJOB® S 161
Diode terminal blocks; f.-e. 406
– TOPJOB® S 154
Diode triple-deck terminal blocks; f.-e.
– TOPJOB® S 174
– Compact 516
Disconnect and test terminal blocks; f.-e.
– angled type 366
– Double-deck, TOPJOB® S 86
– for current and voltage transformer circuits 362
– TOPJOB® S 136
– horizontal type
– Double-deck, TOPJOB® S 168
– with a pivoting knife disconnect 352
– TOPJOB® S 106
– with push-button 94
– Disconnect tab 354
Disconnect and test terminal blocks; s.-e. 584
Disconnection tool; for 294 Series 573
Disconnect terminal blocks; f.-e.
– angled type
– for current and voltage transformer circuits 362
– Double-deck, TOPJOB® S 86
– horizontal type
– with a pivoting knife disconnect 368
– TOPJOB® S 106
– with push-button 94
– with a disconnect tab 354
– Double-deck terminal blocks 333
– TOPJOB® S 168
Disconnect terminal blocks for test and measurement
– see “Disconnect and test terminal blocks”
Distribution terminal blocks; f.-e. 325
Double-deck carrier terminal blocks 334
– TOPJOB® S 86
– X-COM®S-SYSTEM-MINI 196
– X-COM®S-SYSTEM 216
– X-COM®S-SYSTEM; for Ex ec applications 232
– X-COM®-SYSTEM 466
Double-deck rail-mount terminal blocks; f.-e. 328
– Compact 510
– TOPJOB® S 72
– with push-button 70
– Disconnect terminal blocks, TOPJOB® S 86
– Disconnect and test terminal blocks, TOPJOB® S 168
– Carrier terminal blocks, TOPJOB® S 86
– Fuse terminal blocks, TOPJOB® S 87
– Diode and LED terminal blocks 412
– Compact 514
– TOPJOB® S 172
Double-fuse plugs on carrier terminal blocks 262
Double-potential terminal blocks; f.-e. 313
– TOPJOB® S 53
– as terminal blocks for matrix patching 609
– Compact 509

E

EC directives 730
Electrical interconnection sets 68
Electric motor wiring (quadruple-deck) rail-mount terminal blocks 340
– TOPJOB® S 92
Empty component plug on carrier terminal blocks 164
End stops
– for DIN-15 rail 753
– for DIN-35 rail 702
Environmental protection at WAGO 802
Ex eb
COMPACT Splicing connectors (4 mm²/12 AWG); for Ex eb applications 636
Ex ec
X-COM®S-SYSTEM
– Carrier terminal blocks 228
– Double-deck carrier terminal blocks 232
– Female plugs with Push-in CAGE CLAMP® connection 234

Item Page

E

Ex e II
– Through terminal blocks; f.-e.
– angled type 316
– TOPJOB® S 58
– TOPJOB® Classic 343
– horizontal type 312
– TOPJOB® S 52
– with lever and Push-in CAGE CLAMP® 26
– with lever and push-button 31
– with push-button 36
– Double- and triple-deck terminal blocks, TOPJOB® S 72
– Double-potential terminal blocks; f.-e. 313
– TOPJOB® S 53
– Ground conductor terminal blocks; f.-e.
– angled type 316
– TOPJOB® S 58
– TOPJOB® Classic 343
– horizontal type 312
– TOPJOB® S 52
– with lever and Push-in CAGE CLAMP® 26
– with lever and push-button 31
– with push-button 36
– Disconnect and test terminal blocks TOPJOB® S 106
– Double-deck disconnect/test terminal blocks 168
– High-current through terminal blocks; s.-e. 298
– High-current ground conductor terminal blocks; s.-e. 298
– Modular terminal blocks and terminal strips with mounting flanges or snap-in mounting feet
– f.-e. 532
– s.-e. 550
– Compact through terminal blocks; for DIN-35 and DIN-15 rails 508
– Compact ground conductor terminal blocks; for DIN-35 and DIN-15 rails 508
– Mini through terminal blocks
– for DIN-35 and DIN-15 rails 504
– TOPJOB® S; for DIN-15 rails 282
– TOPJOB® S; for surface mounting 286
– Mini ground conductor terminal blocks 504
– for DIN-35 and DIN-15 rails 504
– TOPJOB® S; for DIN-15 rails 282
Ex i terminal blocks
– see “Through terminal blocks”
Ex applications:
– Technical information 761
Ex PUSH WIRE® connectors for junction boxes 620

F

Felt-tip pen 695
Female plugs with Push-in CAGE CLAMP® connection
– X-COM®S-SYSTEM-MINI 198
– X-COM®S-SYSTEM 218
– X-COM®S-SYSTEM; for Ex ec applications 234
Female plugs with CAGE CLAMP® connection
– X-COM®-SYSTEM 486
Ferrules 717
– TOPJOB® S 715
– High-current rail-mount terminal blocks 719
– 4-conductor chassis-mount terminal strips 716
Field-wiring terminal blocks 566
Fuse modules; for carrier terminal blocks 378
– TOPJOB® S 140
Fuse terminal blocks; f.-e.
– angled type
– for automotive blade-style fuses 370
– with a pivoting fuse holder 374
– Double-deck terminal blocks, TOPJOB® S 87
– horizontal type
– TOPJOB® S 106
– with push-button 94
– with a pivoting fuse holder, TOPJOB® S 116
– with push-button 104
Fuse plugs on carrier terminal blocks 378
– TOPJOB® S 140
– for double-/triple-deck terminal blocks 334
– double-, TOPJOB® S 262
Fuse terminal blocks; s.-e. 586
– for cylindrical fuses and class CC fuses 382

f.-e. = front-entry wiring
s.-e. = side-entry wiring

Item — Page

G

Ground conductor disconnect terminal blocks; f.-e. 368
– TOPJOB® S 124
Ground conductor disconnect terminal blocks; s.-e. 585
Ground conductor terminal blocks, Compact
– for DIN-35 and DIN-15 rails 508
Ground conductor terminal blocks; f.-e.
– angled type 316
– TOPJOB® S 58
– with push-button 42
– TOPJOB® Classic 343
– for current and voltage transformer circuits 363
– TOPJOB® S 137
– horizontal type 312
– TOPJOB® S 52
– with lever and Push-in CAGE CLAMP® 26
– with lever and push-button 31
– with push-button 36
– Double-deck terminal blocks 328
– TOPJOB® S 72
– with push-button 70
– Triple-deck terminal blocks 338
– TOPJOB® S 90
– Distribution terminal blocks, TOPJOB® S 270
Ground conductor terminal blocks, Mini
– for DIN-35 and DIN-15 rails 504
– TOPJOB® S; for DIN-15 rails 282
Ground conductor terminal blocks; s.-e. 580
– High-current~ 298

H

High-current rail-mount terminal blocks with POWER CAGE CLAMP connection Section 5

I

IEC/EN specifications 731
Inline splicing connectors 647
Installation distribution terminal blocks
– see “Multilevel installation terminal blocks”
Installation rail-mount terminal blocks
– see “Multilevel installation terminal blocks”
Insulation stops
– for rail-mount terminal blocks, Classic 424
– X-COM®-SYSTEM 436
– for matrix patchboards 601
Item Number Index 784

J

Jumpers for rail-mount terminal blocks
– see “Step-down jumpers, staggered jumpers, push-in type wire jumpers”
Junction boxes; for 221 Series splicing connectors (4 mm²) 645
Junction box connectors Section 13

L

Lamp demonstration connectors (“Service” connectors) 657
L-BOXX® 102 658
LED double-deck terminal blocks; f.-e. 412
– TOPJOB® S 172
– Compact 514
LED modules on carrier terminal blocks 416
– TOPJOB® S 160
LED modules on through terminal blocks 417
– TOPJOB® S 161
LED terminal blocks; f.-e. 406
– TOPJOB® S 154
LED triple-deck terminal blocks; f.-e.
– TOPJOB® S 174
– Compact 516
Lighting connectors 657
Longitudinal switching disconnect terminal blocks 366
Luminaire disconnect connectors 662

Item — Page

M

Male connectors with CAGE CLAMP®connection
– X-COM®-SYSTEM 476
Male headers with solder pins
– X-COM®-SYSTEM 480
Marking accessories Section 14, Volume 6
– Compact 513
Material specifications for insulation/contact materials, contact plating 760
Matrix patchboards 592
Matrix patching and common potential terminal blocks (4- and 8-level terminal blocks) 604
MICRO PUSH WIRE® connectors for junction boxes 624
Mini through terminal blocks, f.-e.
– for DIN-35 and DIN-15 rails 504
Mini ground terminal blocks; f.-e.
– for DIN-35 and DIN-15 rails 504
Modular connectors
– TOPJOB® S 176
– X-COM®S-SYSTEM Section 2
– X-COM®-SYSTEM Section 7
Modular terminal blocks and terminal strips
– see “Terminal blocks and terminal strips”
Modular terminal blocks and terminal strips with mounting flanges or snap-in mounting feet
– Compact 528
– f.-e. 532
– s.-e. 538
Modular test plug adapters
– see “Test plug adapters”
Mounting carrier for inline splicing connectors 649
Mounting carrier for single connectors 630
Mounting carrier for splicing connectors
– 221 Series (4 mm²/12 AWG connectors) 629
– 221 Series (6 mm²/10 AWG connectors) 633
– 222 Series 655
– 243 Series 625
– 773 Series 617
– 773 Series Ex 621
– 2273 Series 615
Mounting foot
– for isolated DIN-rail mounting 703
– for busbars 668
Multilevel installation terminal blocks as carrier terminal blocks TOPJOB® S 260
Multilevel installation terminal blocks; with an internal Multilevel installation terminal blocks; with an N-disconnect slide link TOPJOB® S 256
Multilevel installation terminal blocks; with N-disconnection TOPJOB® S 258
Multilevel rail-mount terminal blocks
– see “Double-, triple-, quadruple-deck terminal blocks”
Multilevel terminal blocks
– see “Multilevel installation terminal blocks”
– see “Double-, triple- and quadruple-deck terminal blocks”

N

N-conductor disconnect terminal blocks
– TOPJOB® S 268
– TOPJOB® Classic 347
Neon lamp modules on carrier terminal blocks 416
Neon lamp modules on through terminal blocks 417

O

Operating pliers 709
Operating tools 708
– TOPJOB® S 708
– TOPJOB® Classic 343
– High-current rail-mount terminal blocks 709
Order form available upon request

Item — Page

P

Patchboard systems
– Matrix patchboards 592
– Common potential matrix patchboards 596
– Matrix patching and common potential terminal blocks (4- and 8-level terminal blocks) 604
– Terminal blocks for matrix patching (3-conductor, double-potential terminal blocks) 609
Pluggable tap-off modules 519
POWER CAGE CLAMP connection 729
Power distribution disconnect terminal blocks
– TOPJOB® S 268
– TOPJOB® Classic 347
Power taps; for high-current terminal blocks 298
Printer 697
Push-in CAGE CLAMP® connection 728
Push-in type wire jumpers for rail-mount terminal blocks 427
– TOPJOB® S 186
PUSH WIRE® connection 729
PUSH WIRE® connectors for junction boxes 618
PUSH WIRE® connectors for junction boxes, Ex e II 620
PUSH WIRE® connectors for junction boxes, MICRO 624

Q

Quadruple-deck rail-mount terminal blocks (for fast electric motor wiring) 340
– TOPJOB® S 92

R

Rail end cap; for DIN-35 rail 700
Rail-mount spacer blocks 314
Rail-mount terminal block sets 68

S

Screwdrivers
– see “Operating tools”
Sensor and sensor LED terminal blocks
– Rail-mount terminal blocks, TOPJOB® S 146
– Rail-mount terminal blocks, Classic 390
– Rail-mount terminal blocks, Compact 521
Sensor terminal blocks; with a pluggable signal level 151
“Service” connectors 657
Sets, electrical interconnection set and rail-mount terminal block set 68
Shield clamping saddles 668
Shield clamps 672
Shield terminal blocks
– angled type 316
– TOPJOB® S 58
– TOPJOB® Classic 343
– horizontal type 312
– TOPJOB® S 54
– Double-deck terminal blocks, TOPJOB® S 73
– Triple-deck terminal blocks 338
– TOPJOB® S 90
Spacers for sensor/actuator terminal blocks 390
Specifications IEC/EN 731
Specifications UL – Underwriters Laboratories, USA 752
Splicing connectors (4 mm²/12 AWG) for all conductor types, COMPACT 627
Splicing connectors (4 mm²/12 AWG); for Ex eb applications, COMPACT 636
Splicing connectors (6 mm²/10 AWG) for all conductor types, COMPACT 633
Splicing connectors (6 mm²/10 AWG); for Ex eb applications, COMPACT 637
Splicing connectors, COMPACT 615
Splicing connectors for all conductor types, CLASSIC 653
Splicing connector set 658
Spring-equipped shield clamping saddles 671
Staggered jumpers for rail-mount terminal blocks 426
– TOPJOB® S 184
Star point jumper 185

f.-e. = front-entry wiring
s.-e. = side-entry wiring

Product Index

Item Page

S

Step-down jumpers for through terminal blocks
– TOPJOB® S 65
– High-current; 35 mm²/2 AWG 298
– f.-e. 326
– s.-e. 583
Stickers with operating instructions
– see www.wago.com
Strain relief housings
– X-COM®-SYSTEM 494
Strain relief plates
– X-COM®S-SYSTEM 200
– X-COM®-SYSTEM 476
– for 294 Series 573
Strain reliefs 573
Stripping pliers 712
Switch cabinet drawer 699
Supply terminal blocks
– Ground conductor terminal block
– TOPJOB® S 270
– TOPJOB® Classic 346
– N-conductor disconnect terminal blocks
– TOPJOB® S 270
– TOPJOB® Classic 348
Supply terminal blocks for distribution boxes TOPJOB® S 270

T

Tap-off modules 519
Technical information
– general 730
– harzardous areas 761
– miniature fuses 386
Terminal block assemblies for current and voltage circuits 138
Terminal blocks for matrix patching (3-conductor, double-potential terminal blocks) 609
Terminal strips and modular terminal blocks with mounting flanges or snap-in mounting feet
– Compact 527
– f.-e. 534
– s.-e. 539
Terminating aluminum conductors 724
Testboy 721
Testing tap, TOPJOB® S 181
Test pin 194
Test plug adapter, TOPJOB® S 181
Test plug modules 420
– TOPJOB® S 180
– Mini rail-mount terminal blocks 552
Tests and testing procedures 732
Three-phase set TOPJOB® S; with lever and Push-in CAGE CLAMP® 30
Three-phase set; with high-current terminal blocks 298
Through terminal blocks, Compact
– for DIN-35 and DIN-15 rails 508
Through terminal blocks; f.-e.
– angled type 316
– TOPJOB® S 58
– with push-button 42
– TOPJOB® Classic 343
– for current and voltage transformer circuits 362
– TOPJOB® S 136
– for fuse terminal blocks for automotive blade-style fuses 368
– horizontal type 312
– TOPJOB® S 52
– with lever and Push-in CAGE CLAMP® 26
– with lever and push-button 31
– with push-button 36
– Double- and triple-deck terminal blocks 328
– TOPJOB® S 72
– with push-button 70
– Distribution terminal blocks 325
– TOPJOB® S 270
Through terminal blocks; Mini
– for DIN-35 and DIN-15 rails 504
– TOPJOB® S; for DIN-15 rails 282
– TOPJOB® S; for surface mounting 286

Item Page

T

Through terminal blocks; s.-e. 580
– High-current~ 298
Tools Section 14
TOPJOB® terminal blocks with CAGE CLAMP® connection
– Through terminal blocks 343
– Ground terminal blocks 343
– Shield terminal blocks 343
– N-conductor disconnect terminal blocks 347
– Power distribution disconnect terminal blocks 347
TOPJOB® S terminal blocks with Push-in CAGE CLAMP® connection
– Through terminal blocks 52
– with lever and Push-in CAGE CLAMP® 26
– with lever and push-button 31
– with push-button 36
– for current and voltage transformer circuits 136
– Double-potential terminal blocks 53
– Ground conductor terminal blocks 52
– with lever and Push-in CAGE CLAMP® 26
– with lever and push-button 31
– with push-button 36
– for current and voltage transformer circuits 137
– Shield terminal blocks 54
– Double-deck terminal blocks 72
– with push-button 70
– Double-deck disconnect terminal blocks 86
– Double-deck disconnect/test terminal blocks 168
– Double-deck carrier terminal blocks 86
– Double-deck fused disconnect terminal blocks with a pivoting fuse holder 87
– Triple-deck terminal blocks 90
– Quadruple-deck terminal blocks 92
– Carrier terminal blocks 107
– with push-button 94
– Disconnect and test terminal blocks 106
– with push-button 94
– Disconnect/test terminal blocks for current and voltage transformer circuits 136
– Fuse terminal blocks 106
– with push-button 94
– Fused disconnect terminal blocks with a pivoting fuse holder 116
– with push-button 104
– Ground conductor disconnect terminal blocks 124
– Terminal block assemblies for current and voltage circuits 138
– Fuse plugs 140
– Sensor terminal blocks 146
– Sensor terminal blocks; with a pluggable signal level 151
– Actuator terminal blocks 148
– Actuator terminal blocks; with a pluggable signal level 153
– Diode and LED terminal blocks 154
– Double-deck diode and LED terminal blocks 172
– Triple-deck diode and LED terminal blocks 174
– Diode modules on carrier terminal blocks 160
– Diode modules on through terminal blocks 161
– LED modules on carrier terminal blocks 160
– LED modules on through terminal blocks 161
– Empty component plug on carrier terminal blocks 164
– Component plugs on carrier terminal blocks 166
– Modular connectors and connector strips 176
– Test plug modules 180
– Multilevel installation terminal blocks with an N-disconnect slide link 256
– Multilevel installation terminal blocks with an internal N-disconnection 258
– Multilevel installation terminal blocks as carrier terminal blocks 260
– Double-fuse plugs on carrier terminal blocks 262
– N-conductor disconnect terminal blocks 268
– Power distribution disconnect terminal blocks 268
– Supply terminal blocks for distribution boxes 270
– Miniature Through terminal blocks
– for DIN-15 rails 282
– for surface mounting 286
– Miniature Ground conductor terminal blocks
– for DIN-15 rails 282
– Tools 708
Transformer terminal blocks
– see "Disconnect and test terminal blocks"

Item Page

T

Transverse switching terminal blocks 366
Triple-deck carrier terminal blocks 335
Triple-deck installation terminal blocks, TOPJOB® S 256
Triple-deck rail-mount terminal blocks; f.-e. 338
– Compact 512
– TOPJOB® S 90
– Diode and LED terminal blocks
– Compact 516
– TOPJOB® S 174

U

UL Specifications – Underwriters Laboratories, USA 752

V

Voltage testers 721
Voltage transformer terminal blocks 136

W

WAGO
– Connection technologies 728
– CAGE CLAMP® connection 728
– POWER CAGE CLAMP connection 729
– Push-in CAGE CLAMP® connection 728
– PUSH WIRE® connection 729
WFB continuous marking strips 695
Wire jumpers for rail-mount terminal blocks; push-in type 427
– TOPJOB® S 186
Wire harness support 609
Wire strippers 713

X

X-COM®S-SYSTEM-MINI
– Carrier terminal blocks 194
– Double-deck carrier terminal blocks 196
– Female plugs with Push-in CAGE CLAMP® connection 198
X-COM®S-SYSTEM
– Carrier terminal blocks 212
– Double-deck carrier terminal blocks 216
– Female plugs with Push-in CAGE CLAMP® connection 218
X-COM®S-SYSTEM; for Ex ec applications
– Carrier terminal blocks 228
– Double-deck carrier terminal blocks 232
– Female plugs with Push-in CAGE CLAMP® connection 234
X-COM®-SYSTEM
– Carrier terminal blocks 436
– Double-deck carrier terminal blocks 466
– Female plugs with CAGE CLAMP® connection 486
– Male connectors with CAGE CLAMP® connection 476
– Male headers with solder pins 480

Y

Yellowoxes for splicing connectors 641

f.-e. = front-entry wiring
s.-e. = side-entry wiring

Item	Page

Item	Page

Item	Page

f.-e. = front-entry wiring
s.-e. = side-entry wiring

Item Number Index

Item No.	Page
206 Series	
206-118	720
206-294	573
206-804	721
206-808	721
206-912	721
206-1125	713
206-1126	713
206-1127	713
206-1128	713
206-1129	713
206-1131	713
206-1132	713
206-1204	714
206-1205	714
206-1206	714
206-1216	714
206-1225	718
206-1250	718
206-1400	710
206-1403	710
206-1411	710
206-1412	710
206-1413	710
206-1414	710
206-1415	710
206-1418	710
206-1419	710
206-1441	711
206-1442	711
206-1451	711
206-1481	712
206-1482	712
206-1491	712
206-1492	712
207 Series	
207-1331	641
207-1332	641
207-1333	641
207-1372	651
207-1373	651
207-1375	651
207-1431	641
207-1432	641
207-1433	641
207-4301	645
207-9301	645
210 Series	
210-103	159
210-111	282
210-112	504
210-113	504
210-114	701
210-115	701
210-118	701
210-123	159
210-133	240
210-136	723
210-141	709
210-143	709
210-148	701
210-149	701
210-154	287
210-196	504
210-196	700
210-197	700
210-198	298
210-198	302
210-198	304
210-198	306
210-198	700
210-254	104
210-281	246
210-295	282
210-297	347
210-331	686
210-332	686
210-333	686
210-333/500-001	686

Item No.	Page
210 Series	
210-333/500-002	686
210-333/500-003	686
210-333/500-004	686
210-333/500-005	686
210-333/500-006	686
210-333/500-007	686
210-333/500-008	686
210-333/500-009	686
210-333/500-010	686
210-333/500-011	686
210-333/500-021	686
210-333/500-074	686
210-333/500-075	686
210-333/500-076	686
210-333/500-077	686
210-333/500-078	686
210-333/500-079	686
210-333/1000-001	687
210-333/1000-074	687
210-333/1000-075	687
210-333/1000-076	687
210-333/1000-077	687
210-333/1000-078	687
210-333/1000-079	687
210-333/1000-110	687
210-333/1000-111	687
210-333/1000-112	687
210-333/1000-113	687
210-333/1000-202	687
210-333/1000-204	687
210-333/1000-206	687
210-333/1000-208	687
210-333/1200-001	688
210-333/1200-074	688
210-333/1200-075	688
210-333/1200-076	688
210-333/1200-077	688
210-333/1200-078	688
210-333/1200-079	688
210-333/1200-103	688
210-333/1200-104	688
210-333/1200-105	688
210-333/1200-106	688
210-333/1200-107	688
210-333/1200-203	688
210-334	686
210-335	686
210-345	692
210-412	363
210-413	363
210-414	363
210-415	363
210-423	367
210-424	367
210-647	708
210-648	708
210-657	708
210-658	708
210-719	708
210-720	708
210-721	298
210-722	708
210-833	625
210-834	615
215 Series	
215-111	724
215-211	724
215-212	724
215-311	724
215-411	724
215-511	724
215-611	724
215-711	724
215-811	724
215-911	724
216 Series	
216-101	717
216-102	717
216-103	717

Item No.	Page
216 Series	
216-104	717
216-106	717
216-107	717
216-108	717
216-109	717
216-110	717
216-121	717
216-122	717
216-123	717
216-124	717
216-131	717
216-132	717
216-141	716
216-142	716
216-143	716
216-144	716
216-151	717
216-152	717
216-201	717
216-202	717
216-203	717
216-204	717
216-205	717
216-206	717
216-207	717
216-208	717
216-209	717
216-210	715
216-221	717
216-222	717
216-223	717
216-224	717
216-241	715
216-242	715
216-243	715
216-244	715
216-246	715
216-262	715
216-263	715
216-264	715
216-266	715
216-267	715
216-284	715
216-286	715
216-287	715
216-288	715
216-289	715
216-301	717
216-302	717
216-321	717
216-322	717
216-413	719
216-414	719
216-424	719
216-425	719
216-435	719
216-545	383
216-546	383
216-547	383
221 Series	
221-412	627
221-482	636
221-483	636
221-485	636
221-500	629
221-500/000-006	629
221-500/000-053	629
221-501	636
221-502	631
221-502/000-004	631
221-503	631
221-503/000-004	631
221-505	631
221-505/000-004	631
221-510	633
221-510/000-006	633
221-510/000-053	633
221-511	637
221-512	631

Item No.	Page
221 Series	
221-512/000-004	631
221-513	631
221-513/000-004	631
221-515	631
221-515/000-004	631
221-522	631
221-522/000-004	631
221-523	631
221-523/000-004	631
221-525	631
221-525/000-004	631
221-612	633
221-613	633
221-615	633
221-682	637
221-683	637
221-685	637
221-941	639
221-942	639
221-941/000-006	639
221-942/000-006	639
221-2401	647
221-2411	647
221-2501	649
221-2502	649
221-2503	649
221-2504	649
221-2505	649
221-2511	649
221-2512	649
221-2513	649
221-2514	649
221-2515	649
221-2521	649
221-2522	649
221-2523	649
221-2524	649
221-2525	649
221-2531	649
221-2532	649
221-2533	649
221-2534	649
221-2535	649
222 Series	
222-412	653
222-413	653
222-415	653
222-500	655
222-505	629
222-510	629
224 Series	
224-101	657
224-104	657
224-112	657
224-114	657
224-201	657
243 Series	
243-112	625
243-113	625
243-144	624
243-204	624
243-208	624
243-304	624
243-308	624
243-504	624
243-508	624
243-804	624
243-808	624
248 Series	
248-501	685
248-501/000-002	685
248-501/000-005	685
248-501/000-006	685
248-501/000-007	685

Item No.	Page
248 Series	
248-501/000-012	685
248-501/000-017	685
248-501/000-023	685
248-501/000-024	685
249 Series	
249-101	707
249-105	695
249-106	421
249-107	421
249-109	604
249-116	702
249-117	702
249-118	693
249-119	693
249-120	693
249-125	313
249-126	313
249-127	313
249-130	724
249-135	538
249-136	504
249-137	548
249-138	538
249-139	504
249-140	548
249-141	317
249-142	420
249-143	420
249-144	420
249-145	420
249-146	420
249-147	421
249-148	421
249-197	298
258 Series	
258-5000	697
258-5030	697
260 Series	
260-102	539
260-103	539
260-104	539
260-105	539
260-106	539
260-107	539
260-108	539
260-109	539
260-110	539
260-111	539
260-112	539
260-152	539
260-153	539
260-154	539
260-155	539
260-156	539
260-157	539
260-158	539
260-159	539
260-160	539
260-161	539
260-162	539
260-202	539
260-203	539
260-204	539
260-205	539
260-206	539
260-207	539
260-208	539
260-209	539
260-210	539
260-211	539
260-212	539
260-252	539
260-253	539
260-254	539
260-255	539
260-256	539
260-257	539

Item No.	Page
260 Series	
260-258	539
260-259	539
260-260	539
260-261	539
260-262	539
260-301	538
260-303	538
260-304	538
260-306	538
260-307	538
260-311	538
260-313	538
260-314	538
260-316	538
260-317	538
260-321	538
260-323	538
260-324	538
260-326	538
260-327	538
260-331	538
260-333	538
260-334	538
260-336	538
260-337	538
260-341	538
260-343	538
260-344	538
260-346	538
260-347	538
260-351	538
260-353	538
260-354	538
260-356	538
260-357	538
260-361	538
260-371	538
260-402	538
260-404	538
260-405	538
261 Series	
261-102	541
261-102/331-000	543
261-102/341-000	545
261-103	541
261-103/331-000	543
261-103/341-000	545
261-104	541
261-104/331-000	543
261-104/341-000	545
261-105	541
261-105/331-000	543
261-105/341-000	545
261-106	541
261-106/331-000	543
261-106/341-000	545
261-107	541
261-107/331-000	543
261-107/341-000	545
261-108	541
261-108/331-000	543
261-108/341-000	545
261-109	541
261-109/331-000	543
261-109/341-000	545
261-110	541
261-110/331-000	543
261-110/341-000	545
261-111	541
261-111/331-000	543
261-111/341-000	545
261-112	541
261-112/331-000	543
261-112/341-000	545
261-152	541
261-152/331-000	543
261-152/341-000	545
261-153	541
261-153/331-000	543
261-153/341-000	545

Item No.	Page
261 Series	
261-154	541
261-154/331-000	543
261-154/341-000	545
261-155	541
261-155/331-000	543
261-155/341-000	545
261-156	541
261-156/331-000	543
261-156/341-000	545
261-157	541
261-157/331-000	543
261-157/341-000	545
261-158	541
261-158/331-000	543
261-158/341-000	545
261-159	541
261-159/331-000	543
261-159/341-000	545
261-160	541
261-160/331-000	543
261-160/341-000	545
261-161	541
261-161/331-000	543
261-161/341-000	545
261-162	541
261-162/331-000	543
261-162/341-000	545
261-202	541
261-202/332-000	543
261-202/342-000	545
261-203	541
261-203/332-000	543
261-203/342-000	545
261-204	541
261-204/332-000	543
261-204/342-000	545
261-205	541
261-205/332-000	543
261-205/342-000	545
261-206	541
261-206/332-000	543
261-206/342-000	545
261-207	541
261-207/332-000	543
261-207/342-000	545
261-208	541
261-208/332-000	543
261-208/342-000	545
261-209	541
261-209/332-000	543
261-209/342-000	545
261-210	541
261-210/332-000	543
261-210/342-000	545
261-211	541
261-211/332-000	543
261-211/342-000	545
261-212	541
261-212/332-000	543
261-212/342-000	545
261-252	541
261-252/332-000	543
261-252/342-000	545
261-253	541
261-253/332-000	543
261-253/342-000	545
261-254	541
261-254/332-000	543
261-254/342-000	545
261-255	541
261-255/332-000	543
261-255/342-000	545
261-256	541
261-256/332-000	543
261-256/342-000	545
261-257	541
261-257/332-000	543
261-257/342-000	545
261-258	541
261-258/332-000	543
261-258/342-000	545

Item No.	Page
261 Series	
261-259	541
261-259/332-000	543
261-259/342-000	545
261-260	541
261-260/332-000	543
261-260/342-000	545
261-261	541
261-261/332-000	543
261-261/342-000	545
261-262	541
261-262/332-000	543
261-262/342-000	545
261-301	540
261-301/331-000	542
261-301/341-000	544
261-303	540
261-303/331-000	542
261-303/341-000	544
261-304	540
261-304/331-000	542
261-304/341-000	544
261-306	540
261-306/331-000	542
261-306/341-000	544
261-307	540
261-307/331-000	542
261-307/341-000	544
261-311	540
261-311/331-000	542
261-311/341-000	544
261-313	540
261-313/331-000	542
261-313/341-000	544
261-314	540
261-314/331-000	542
261-314/341-000	544
261-316	540
261-316/331-000	542
261-316/341-000	544
261-317	540
261-317/331-000	542
261-317/341-000	544
261-321	540
261-321/331-000	542
261-321/341-000	544
261-323	540
261-323/331-000	542
261-323/341-000	544
261-324	540
261-324/331-000	542
261-324/341-000	544
261-326	540
261-326/331-000	542
261-326/341-000	544
261-327	540
261-327/331-000	542
261-327/341-000	544
261-331	540
261-331/332-000	542
261-331/342-000	544
261-333	540
261-333/332-000	542
261-333/342-000	544
261-334	540
261-334/332-000	542
261-334/342-000	544
261-336	540
261-336/332-000	542
261-336/342-000	544
261-337	540
261-337/332-000	542
261-337/342-000	544
261-341	540
261-341/332-000	542
261-341/342-000	544
261-343	540
261-343/332-000	542
261-343/342-000	544
261-344	540
261-344/332-000	542
261-344/342-000	544

Item Number Index

Item No.	Page
261 Series	
261-346	540
261-346/332-000	542
261-346/342-000	544
261-347	540
261-347/332-000	542
261-347/342-000	544
261-351	540
261-351/332-000	542
261-351/342-000	544
261-353	540
261-353/332-000	542
261-353/342-000	544
261-354	540
261-354/332-000	542
261-354/342-000	544
261-356	540
261-356/332-000	542
261-356/342-000	544
261-357	540
261-357/332-000	542
261-357/342-000	544
261-361	540
261-371	540
261-402	540
261-404	540
261-405	540
261-410	546
261-411	546
261-411/331-000	546
261-411/341-000	546
261-422	547
261-422/331-000	547
261-422/341-000	547
261-423	547
261-423/331-000	547
261-423/341-000	547
261-424	547
261-424/331-000	547
261-424/341-000	547
261-425	547
261-425/331-000	547
261-425/341-000	547
261-426	547
261-426/331-000	547
261-426/341-000	547
261-427	547
261-427/331-000	547
261-427/341-000	547
261-428	547
261-428/331-000	547
261-428/341-000	547
261-429	547
261-429/331-000	547
261-429/341-000	547
261-430	547
261-430/331-000	547
261-430/341-000	547
261-431	547
261-431/331-000	547
261-431/341-000	547
261-432	547
261-432/331-000	547
261-432/341-000	547
262 Series	
262-102	549
262-103	549
262-104	549
262-105	549
262-106	549
262-107	549
262-108	549
262-109	549
262-110	549
262-111	549
262-112	549
262-130	550
262-132	551
262-133	551
262-134	551

Item No.	Page
262 Series	
262-135	551
262-136	551
262-137	551
262-138	551
262-139	551
262-140	551
262-141	551
262-142	551
262-152	549
262-153	549
262-154	549
262-155	549
262-156	549
262-157	549
262-158	549
262-159	549
262-160	549
262-161	549
262-162	549
262-180	550
262-181	550
262-182	551
262-183	551
262-184	551
262-185	551
262-186	551
262-187	551
262-188	551
262-189	551
262-190	551
262-191	551
262-192	551
262-202	549
262-203	549
262-204	549
262-205	549
262-206	549
262-207	549
262-208	549
262-209	549
262-210	549
262-211	549
262-212	549
262-230	550
262-232	551
262-233	551
262-234	551
262-235	551
262-236	551
262-237	551
262-238	551
262-239	551
262-240	551
262-241	551
262-242	551
262-252	549
262-253	549
262-254	549
262-255	549
262-256	549
262-257	549
262-258	549
262-259	549
262-260	549
262-261	549
262-262	549
262-280	550
262-281	550
262-282	551
262-283	551
262-284	551
262-285	551
262-286	551
262-287	551
262-288	551
262-289	551
262-290	551
262-291	551
262-292	551
262-301	548
262-304	548

Item No.	Page
262 Series	
262-306	548
262-307	548
262-311	548
262-314	548
262-316	548
262-317	548
262-321	548
262-324	548
262-326	548
262-327	548
262-331	548
262-334	548
262-336	548
262-337	548
262-341	548
262-344	548
262-346	548
262-347	548
262-351	548
262-354	548
262-356	548
262-357	548
262-361	548
262-363	550
262-371	548
262-373	550
262-402	548
264 Series	
264-102	534
264-103	534
264-104	534
264-105	534
264-106	534
264-107	534
264-108	534
264-109	534
264-110	534
264-111	534
264-112	534
264-120	505
264-125	504
264-130	532
264-131	532
264-132	534
264-133	534
264-134	534
264-135	534
264-136	534
264-137	534
264-138	534
264-139	534
264-140	534
264-141	534
264-142	534
264-152	534
264-153	534
264-154	534
264-155	534
264-156	534
264-157	534
264-158	534
264-159	534
264-160	534
264-161	534
264-162	534
264-180	533
264-182	534
264-183	534
264-184	534
264-185	534
264-186	534
264-187	534
264-188	534
264-189	534
264-190	534
264-191	534
264-192	534
264-202	534
264-203	534

Item No.	Page
264 Series	
264-204	534
264-205	534
264-206	534
264-207	534
264-208	534
264-209	534
264-210	534
264-211	534
264-212	534
264-220	505
264-225	504
264-230	532
264-231	532
264-232	534
264-233	534
264-234	534
264-235	534
264-236	534
264-237	534
264-238	534
264-239	534
264-240	534
264-241	534
264-242	534
264-252	534
264-253	534
264-254	534
264-255	534
264-256	534
264-257	534
264-258	534
264-259	534
264-260	534
264-261	534
264-262	534
264-280	533
264-282	534
264-283	534
264-284	534
264-285	534
264-286	534
264-287	534
264-288	534
264-289	534
264-290	534
264-291	534
264-292	534
264-301	532
264-304	532
264-306	532
264-307	532
264-311	533
264-314	533
264-316	533
264-317	533
264-321	532
264-324	532
264-326	532
264-327	532
264-331	532
264-334	532
264-336	532
264-337	532
264-341	533
264-344	533
264-346	533
264-347	533
264-351	532
264-354	532
264-356	532
264-357	532
264-361	532
264-363	532
264-364	532
264-367	504
264-368	504
264-369	504
264-370	504
264-371	533
264-373	533
264-374	533

Item No.	Page
264 Series	
264-402	504
264-701	505
264-704	505
264-706	505
264-711	504
264-714	504
264-716	504
264-721	505
264-724	505
264-726	505
264-727	505
264-727/999-950	505
264-731	504
264-734	504
264-736	504
264-737	504
264-737/999-950	504
264-900	685
264-901	685
264-902	685
264-903	685
264-904	685
264-905	685
270 Series	
270-319	523
270-320	521
270-321	523
270-322	521
270-409	521
270-417	521
270-480	521
270-560	522
270-560/281-434	522
270-560/281-507	522
270-564	522
270-564/281-483	522
270-570	521
270-570/281-434	521
270-570/281-507	521
270-572	523
270-572/281-434	523
270-574	521
270-577	523
270-585	523
270-585/281-507	523
270-586	523
279 Series	
279-101	580
279-104	580
279-308	312
279-309	312
279-325	312
279-326	312
279-328	312
279-329	312
279-330	312
279-331	312
279-339	312
279-340	312
279-341	312
279-342	312
279-344	312
279-345	312
279-346	312
279-347	312
279-348	312
279-349	312
279-402	312
279-405	580
279-409	312
279-415	313
279-422	312
279-432	709
279-433	709
279-440	709
279-470	312
279-471	312
279-482	425

Item No.	Page
279 Series	
279-483	425
279-490	425
279-492	425
279-501	328
279-504	328
279-507	328
279-508	328
279-509	328
279-512	328
279-513	328
279-517	328
279-518	329
279-519	329
279-527	328
279-529	329
279-673/281-410	406
279-673/281-411	406
279-674/281-413	406
279-674/281-434	406
279-681	312
279-682	312
279-683	312
279-684	312
279-685	312
279-686	312
279-687	312
279-687/999-950	312
279-809/281-413	406
279-809/281-434	406
279-815/281-410	406
279-815/281-411	406
279-826	313
279-831	312
279-832	312
279-833	312
279-834	312
279-835	312
279-836	312
279-837	312
279-837/999-950	312
279-838	312
279-901	312
279-902	312
279-903	312
279-904	312
279-905	312
279-906	312
279-907	312
279-907/999-950	312
279-915/281-410	406
279-915/281-411	406
279-992	312
279-993	312
279-994	312
279-995	313
280 Series	
280-101	417
280-104	580
280-107	580
280-301	417
280-302	417
280-303	335
280-304	335
280-305	335
280-306	335
280-308	314
280-309	314
280-310	314
280-312	316
280-313	316
280-314	314
280-315	314
280-318	316
280-319	391
280-320	393
280-321	391
280-322	580
280-323	393
280-324	314

Item No.	Page
280 Series	
280-325	609
280-326	314
280-332	580
280-333	609
280-334	314
280-335	314
280-336	334
280-339	334
280-340	332
280-341	332
280-342	332
280-343	332
280-344	314
280-346	314
280-352	314
280-353	314
280-354	316
280-355	316
280-357	314
280-358	314
280-359	314
280-366	332
280-369	332
280-371	352
280-373	353
280-374	352
280-376	353
280-394	609
280-395	609
280-402	315
280-404	313
280-405	509
280-409	315
280-415	315
280-418	315
280-419	315
280-422	315
280-432	425
280-433	425
280-434	709
280-435	709
280-436	709
280-437	709
280-438	709
280-439	709
280-440	709
280-470	315
280-471	315
280-472	315
280-482	315
280-483	315
280-490	315
280-492	315
280-494	609
280-510	335
280-513	333
280-514	334
280-515	405
280-517	332
280-519	332
280-520	332
280-521	333
280-522	332
280-523	332
280-524	332
280-525	333
280-526	332
280-527	332
280-528	334
280-529	332
280-530	332
280-531	334
280-532	334
280-533	332
280-534	332
280-537	332
280-543	332
280-547	338
280-548	338
280-549	338
280-550	338

Item No.	Page
280 Series	
280-551	338
280-552	338
280-553	390
280-554	399
280-555	399
280-556	399
280-557	338
280-558	338
280-559	390
280-560	390
280-560/281-434	392
280-561	390
280-561/281-413	392
280-562	400
280-562/281-411	400
280-562/281-420	404
280-562/281-434	404
280-563	390
280-564	390
280-564/281-483	392
280-565	400
280-565/281-319	400
280-565/281-321	400
280-566	400
280-566/281-496	392
280-567	390
280-568	400
280-570	394
280-570/281-434	393
280-571	394
280-571/281-413	393
280-572	402
280-572/281-411	402
280-572/281-420	404
280-572/281-434	404
280-573	394
280-574	394
280-574/281-483	393
280-575	402
280-575/281-320	402
280-575/281-323	402
280-576	402
280-576/281-496	393
280-577	394
280-577/281-496	393
280-578	402
280-580	396
280-580/281-434	398
280-581/281-413	398
280-582	394
280-583	405
280-584	396
280-584/281-483	398
280-585	405
280-586	405
280-586/281-496	398
280-587	396
280-588	396
280-588/280-320	396
280-588/280-323	396
280-592	400
280-593	402
280-597	338
280-610	380
280-637	316
280-637/999-950	316
280-640	316
280-641	316
280-646	317
280-650	314
280-650/056-000	314
280-651	316
280-653	314
280-654	316
280-654/056-000	316
280-654/056-000	317
280-656	317
280-671	314
280-672	314
280-673/281-410	408
280-673/281-411	408

Item Number Index

Item No.	Page
280 Series	
280-675	609
280-681	314
280-683	354
280-684	314
280-687	314
280-687/999-950	314
280-801/281-411	416
280-801/281-413	418
280-801/281-414	418
280-801/281-415	418
280-801/281-416	418
280-801/281-417	418
280-801/281-418	418
280-801/281-420	416
280-801/281-421	416
280-803/281-411	417
280-803/281-413	419
280-803/281-414	419
280-803/281-415	419
280-803/281-416	419
280-803/281-417	419
280-803/281-418	419
280-803/281-420	417
280-805	354
280-809/281-413	408
280-809/281-434	408
280-815/281-410	408
280-815/281-411	408
280-816	380
280-826	315
280-829	354
280-830	314
280-831	314
280-832	314
280-833	314
280-834	314
280-835	314
280-835/056-000	314
280-836	354
280-837	314
280-837/999-950	314
280-838	314
280-839	354
280-850	380
280-850/281-413	380
280-852	380
280-852/281-413	380
280-854	380
280-854/281-413	380
280-856	380
280-856/281-413	380
280-868	352
280-869	352
280-870	352
280-871	352
280-874	353
280-875	353
280-876	352
280-879	352
280-880	352
280-881	353
280-882	353
280-883	353
280-884	353
280-885	353
280-889	335
280-891	334
280-901	314
280-902	314
280-902/056-000	314
280-903	314
280-904	314
280-905	314
280-906	314
280-907	314
280-907/999-950	314
280-912	354
280-913	354
280-914	354
280-915/281-410	408
280-915/281-411	408

Item No.	Page
281 Series	
280-916	380
280-940/281-410	412
280-940/281-411	412
280-941/281-489	412
280-941/281-490	412
280-941/281-491	412
280-941/281-492	412
280-942/281-487	412
280-942/281-488	412
280-943/281-413	412
280-943/281-434	412
280-946	317
280-992	314
280-993	314
280-994	314
280-995	315
280-996	317
280-998	316
281 Series	
281-101	580
281-104	580
281-107	580
281-301	580
281-302	580
281-309	375
281-311	375
281-312	318
281-313	318
281-318	318
281-322	580
281-324	318
281-326	318
281-328	318
281-329	318
281-330	318
281-331	318
281-332	580
281-333	580
281-334	318
281-335	318
281-338	318
281-339	318
281-340	336
281-341	336
281-342	336
281-343	336
281-344	318
281-344	356
281-345	318
281-346	318
281-347	318
281-348	318
281-350	318
281-355	318
281-356	318
281-357	318
281-358	318
281-365	340
281-366	340
281-402	319
281-405	580
281-407	315
281-409	319
281-415	319
281-418	319
281-419	319
281-421	333
281-422	319
281-440	709
281-470	318
281-471	318
281-472	318
281-482	319
281-483	319
281-485	319
281-490	319
281-492	319
281-503	140
281-511	334
281-512	334

Item No.	Page
281 Series	
281-512/281-417	378
281-512/281-418	378
281-512/281-501	334
281-530	340
281-531	340
281-532	340
281-610	378
281-611	374
281-611/281-417	374
281-611/281-418	374
281-611/281-541	374
281-611/281-542	374
281-612	374
281-612/281-417	374
281-612/281-418	374
281-612/281-541	374
281-612/281-542	374
281-613	376
281-613/281-417	376
281-613/281-418	376
281-613/281-541	376
281-613/281-542	376
281-616	374
281-619	336
281-620	336
281-622	374
281-622/281-417	374
281-622/281-418	374
281-622/281-541	374
281-622/281-542	374
281-623	376
281-623/281-417	376
281-623/281-418	376
281-623/281-541	376
281-623/281-542	376
281-624	375
281-629	336
281-630	336
281-631	319
281-633/281-410	414
281-633/281-411	414
281-634/281-413	414
281-634/281-434	414
281-635/281-489	414
281-635/281-490	414
281-635/281-491	414
281-635/281-492	414
281-636/281-487	414
281-636/281-488	414
281-637	319
281-637/999-950	319
281-651	319
281-652	318
281-653	318
281-654	318
281-656	378
281-657	318
281-657/999-950	318
281-658	318
281-659	356
281-660	356
281-663	318
281-664	318
281-665/281-400	410
281-665/281-401	410
281-665/281-410	410
281-665/281-411	410
281-666	356
281-668	318
281-672	375
281-673/281-400	410
281-673/281-401	410
281-673/281-410	410
281-673/281-411	410
281-678	318
281-679	318
281-681	318
281-683	356
281-684	318
281-685	318
281-686	318

Item No.	Page
281 Series	
281-687	318
281-687/999-950	318
281-901	318
281-902	318
281-903	318
281-904	318
281-905	318
281-906	318
281-907	318
281-907/999-950	318
281-912	356
281-915/281-400	410
281-915/281-401	410
281-915/281-410	410
281-915/281-411	410
281-916	378
281-992	318
281-993	318
281-994	318
281-998	319
282 Series	
282-101	581
282-104	581
282-107	581
282-120	586
282-122	586
282-124	586
282-126	586
282-128	586
282-128/281-413	587
282-128/281-417	587
282-128/281-418	587
282-131	584
282-133	584
282-135	584
282-137	584
282-138	585
282-139	585
282-140	585
282-141	585
282-301	580
282-302	580
282-308	320
282-309	320
282-311	586
282-312	586
282-314	584
282-315	584
282-322	580
282-325	320
282-326	320
282-328	320
282-329	320
282-330	320
282-331	320
282-332	580
282-333	368
282-334	368
282-339	320
282-340	320
282-341	320
282-342	320
282-357	320
282-358	320
282-360	366
282-361	366
282-365	366
282-366	366
282-367	320
282-368	320
282-369	701
282-370	366
282-372	366
282-373	366
282-374	366
282-384	362
282-385	362
282-386	362
282-387	362
282-390	362

Item No.	Page
282 Series	
282-391	362
282-392	362
282-402	320
282-405	580
282-409	320
282-415	302
282-422	320
282-424	362
282-432	136
282-432/100-000	136
282-433	136
282-433/011-000	136
282-433/100-000	136
282-434	136
282-434/100-000	136
282-435	136
282-435/011-000	136
282-435/300-000	136
282-435/301-000	366
282-436	136
282-436/301-000	136
282-436/304-000	366
282-437	136
282-437/011-000	136
282-437/012-000	136
282-438	136
282-438/300-000	136
282-438/301-000	136
282-439	136
282-439/011-000	136
282-440	136
282-442	366
282-443	366
282-444	366
282-445	366
282-446	366
282-451	586
282-452	586
282-453	586
282-454	586
282-457	586
282-458	586
282-638	368
282-639	368
282-640	368
282-641	368
282-681	320
282-682	320
282-684	320
282-687	320
282-687/999-950	320
282-694	368
282-695	368
282-696	370
282-697	368
282-698/281-413	370
282-698/281-429	370
282-698/281-434	370
282-698/281-449	370
282-699	368
282-811	366
282-821	366
282-841	366
282-841/049-000	367
282-860	362
282-865	362
282-866	363
282-868	363
282-870	362
282-881	136
282-882	136
282-883	136
282-884	136
282-885	136
282-886	136
282-887	136
282-888	136
282-901	320
282-902	320
282-903	320
282-904	320

Item No.	Page
282 Series	
282-905	320
282-906	320
282-907	320
282-907/999-950	320
282-992	320
282-993	320
283 Series	
283-101	582
283-104	582
283-107	582
283-301	582
283-302	582
283-322	582
283-325	322
283-326	322
283-328	322
283-329	322
283-330	322
283-331	322
283-332	582
283-333	582
283-335	582
283-350	323
283-351	323
283-352	323
283-353	323
283-354	323
283-355	323
283-357	322
283-367	322
283-400	322
283-402	322
283-404	298
283-405	582
283-407	298
283-409	322
283-414	322
283-415	322
283-422	322
283-671	323
283-672	323
283-674	323
283-677	323
283-677/999-950	323
283-901	322
283-902	322
283-903	322
283-904	322
283-905	322
283-906	322
283-907	322
283-907/999-950	322
283-992	322
283-998	323
284 Series	
284-101	582
284-104	582
284-107	582
284-301	582
284-302	582
284-308	321
284-309	321
284-322	582
284-325	321
284-326	321
284-328	321
284-329	321
284-330	321
284-331	321
284-332	582
284-333	580
284-334	313
284-336	312
284-336	318
284-339	321
284-340	321
284-341	321
284-342	321

Item No.	Page
284 Series	
284-343	580
284-344	313
284-346	312
284-357	321
284-358	321
284-367	321
284-368	321
284-400	321
284-402	321
284-405	582
284-409	321
284-412	325
284-413	319
284-414	313
284-415	304
284-422	321
284-621	325
284-624	325
284-681	321
284-682	321
284-684	321
284-687	321
284-687/999-950	321
284-901	321
284-902	321
284-903	321
284-904	321
284-905	321
284-906	321
284-907	321
284-907/999-950	321
284-992	321
284-993	321
285 Series	
285-131	298
285-134	298
285-135	298
285-137	298
285-137/999-950	298
285-139	298
285-141	303
285-143	303
285-144	303
285-147	303
285-147/999-950	303
285-148	303
285-150	302
285-151	302
285-154	302
285-157	302
285-157/999-950	302
285-159	302
285-168	305
285-169	304
285-170	304
285-172	302
285-173	709
285-175	304
285-181	305
285-184	305
285-187	305
285-188	305
285-191	304
285-194	304
285-195	304
285-197	304
285-197/999-950	304
285-199	304
285-401	324
285-407	304
285-416	324
285-420	298
285-421	298
285-427	298
285-430	298
285-435	298
285-440	302
285-441	302
285-442	298

Item No.	Page
285 Series	
285-447	302
285-448	303
285-449	302
285-450	302
285-495	304
285-633	324
285-634	324
285-635	324
285-636	324
285-637	324
285-637/999-950	324
285-639	324
285-935	298
285-950	302
285-992	324
285-995	304
285-1161	307
285-1163	307
285-1164	307
285-1165	307
285-1167	307
285-1167/999-950	307
285-1169	306
285-1171	306
285-1175	306
285-1176	306
285-1177	306
285-1178	306
285-1179	307
285-1181	306
285-1184	306
285-1185	306
285-1187	306
285-1187/999-950	306
285-1189	306
294 Series	
294-364	573
294-370	573
294-375	573
294-384	573
294-4002	567
294-4003	567
294-4004	569
294-4005	571
294-4006	572
294-4007	572
294-4012	567
294-4013	567
294-4014	569
294-4015	571
294-4022	567
294-4023	567
294-4024	569
294-4025	571
294-4032	567
294-4035	571
294-4042	567
294-4043	567
294-4044	569
294-4045	571
294-4052	567
294-4053	567
294-4055	571
294-4072	567
294-4075	571
294-4093/3025-000	567
294-4094/4025-000	569
294-4095/5025-000	571
294-4095/5026-000	571
294-4095/5027-000	571
294-4213	569
294-4214	571
294-4215	571
294-4223	569
294-4224	571
294-4225	571
294-4235	571
294-4253	569
294-4255	571

Item Number Index

Item No.	Page
294 Series	
294-4275	571
294-4313	569
294-4314	571
294-4315	572
294-4323	569
294-4324	571
294-4325	572
294-4335	572
294-4353	569
294-4355	572
294-4375	572
294-4413	569
294-4414	569
294-4415	571
294-4423	569
294-4424	569
294-4425	571
294-4435	571
294-4453	569
294-4455	571
294-4475	571
294-5002	567
294-5003	567
294-5004	569
294-5005	571
294-5012	567
294-5013	567
294-5014	569
294-5015	571
294-5022	567
294-5023	567
294-5024	569
294-5025	571
294-5032	567
294-5035	571
294-5042	567
294-5043	567
294-5044	569
294-5045	571
294-5052	567
294-5053	567
294-5055	571
294-5072	567
294-5075	571
294-5093/3025-000	567
294-5094/4025-000	569
294-5095/5025-000	571
294-5095/5026-000	571
294-5095/5027-000	571
294-5113	567
294-5114	569
294-5123	567
294-5124	569
294-5153	567
294-5155	571
294-5175	571
294-5213	569
294-5214	571
294-5215	571
294-5223	569
294-5224	571
294-5225	571
294-5235	571
294-5253	569
294-5255	571
294-5275	571
294-5313	569
294-5314	571
294-5315	572
294-5323	569
294-5324	571
294-5325	572
294-5335	572
294-5353	569
294-5355	572
294-5375	572
294-5413	569
294-5414	569
294-5415	571
294-5423	569
294-5424	569

Item No.	Page
294 Series	
294-5425	571
294-5435	571
294-5453	569
294-5455	571
294-5475	571
709 Series	
709-107	592
709-110	363
709-111	363
709-112	363
709-118	693
709-119	693
709-120	693
709-153	705
709-154	705
709-156	706
709-167	705
709-168	705
709-169	706
709-170	355
709-177	340
709-178	558
709-183	705
709-196	517
709-310	320
709-311	345
709-312	321
709-322	423
709-324	423
709-326	423
709-332	423
709-334	423
709-336	423
709-350	672
709-352	672
709-581	699
709-582	699
709-583	699
709-591	699
726 Series	
726-121	592
726-122	592
726-141	592
726-142	592
726-221	592
726-222	592
726-241	592
726-242	592
726-321	595
726-322	595
726-325	595
726-326	595
726-341	595
726-342	595
726-345	595
726-346	595
726-421	593
726-441	593
726-521	593
726-541	593
726-601	596
726-602	596
726-611	596
726-612	596
726-621	596
726-622	596
726-631	596
726-631	597
726-632	596
726-632	597
726-651	598
726-652	598
726-661	598
726-662	598
726-671	598
726-672	598
726-721	594

Item No.	Page
726 Series	
726-741	594
726-770	599
726-771	599
726-780	599
726-800	599
726-801	599
726-821	594
726-841	594
726-901	592
726-902	592
726-903	600
726-904	600
726-906	592
726-907	592
727 Series	
727-105	606
727-106	606
727-107	606
727-108	606
727-113	606
727-114	606
727-115	606
727-116	606
727-117	606
727-119	606
727-120	606
727-121	606
727-122	606
727-123	606
727-124	606
727-125	607
727-126	607
727-127	607
727-128	607
727-129	606
727-130	606
727-131	606
727-132	606
727-133	606
727-134	606
727-135	607
727-136	607
727-137	607
727-138	607
727-155	606
727-156	606
727-157	606
727-158	606
727-159	606
727-160	606
727-161	606
727-162	606
727-163	606
727-164	606
727-165	606
727-166	606
727-167	606
727-168	606
727-169	606
727-170	606
727-197	604
727-198	604
727-199	604
727-205	604
727-206	604
727-207	604
727-208	604
727-213	604
727-214	604
727-217	604
727-219	604
727-220	604
727-221	604
727-222	604
727-223	604
727-224	604
727-225	605
727-226	605
727-227	605
727-228	605

Item No.	Page
727 Series	
727-229	604
727-230	604
727-231	604
727-232	604
727-233	604
727-234	604
727-235	605
727-236	605
727-237	605
727-238	605
727-255	604
727-256	604
727-257	604
727-258	604
727-265	604
727-266	604
727-267	604
727-268	604
734-326	178
734-327	178
734-328	176
734-329	178
734-430	218
734-431	218
769 Series	
769-101	436
769-101/000-006	486
769-101/022-000	436
769-102	477
769-102/021-000	477
769-103	486
769-103/000-036	492
769-103/000-037	492
769-103/000-038	492
769-103/000-039	493
769-103/021-000	487
769-103/022-000	489
769-104	486
769-104/000-036	492
769-104/000-037	492
769-104/000-038	492
769-104/000-039	493
769-104/021-000	487
769-104/022-000	489
769-105	486
769-105/000-036	492
769-105/000-037	492
769-105/000-038	492
769-105/000-039	493
769-105/021-000	487
769-105/022-000	489
769-106	486
769-106/000-036	492
769-106/000-037	492
769-106/000-038	492
769-106/000-039	493
769-106/021-000	487
769-106/022-000	489
769-107	486
769-107/000-036	492
769-107/000-037	492
769-107/000-038	492
769-107/000-039	493
769-107/021-000	487
769-107/022-000	489
769-108	486
769-108/000-036	492
769-108/000-037	492
769-108/000-038	492
769-108/000-039	493
769-108/021-000	487
769-108/022-000	489
769-109	486
769-109/000-036	492
769-109/000-037	492
769-109/000-038	492
769-109/000-039	493
769-109/021-000	487
769-109/022-000	489
769-110	486

Item No.	Page
769 Series	
769-110/000-036	492
769-110/000-037	492
769-110/000-038	492
769-110/000-039	493
769-110/021-000	487
769-110/022-000	489
769-111	486
769-111/000-036	492
769-111/000-037	492
769-111/000-038	492
769-111/000-039	493
769-111/021-000	487
769-111/022-000	489
769-112	486
769-112/000-036	492
769-112/000-037	492
769-112/000-038	492
769-112/000-039	493
769-112/021-000	487
769-112/022-000	489
769-113	486
769-113/000-036	492
769-113/000-037	492
769-113/000-038	492
769-113/000-039	493
769-113/021-000	487
769-113/022-000	489
769-114	486
769-114/000-036	492
769-114/000-037	492
769-114/000-038	492
769-114/000-039	493
769-114/021-000	487
769-114/022-000	489
769-115	486
769-115/000-036	492
769-115/000-037	492
769-115/000-038	492
769-115/000-039	493
769-115/021-000	487
769-115/022-000	489
769-121	436
769-121/000-016	488
769-122	477
769-123	488
769-124	488
769-125	488
769-126	488
769-127	488
769-128	488
769-129	488
769-130	488
769-131	488
769-132	488
769-133	488
769-134	488
769-135	488
769-151	442
769-156	438
769-156/000-006	438
769-161	460
769-162/769-313	460
769-163/769-313	460
769-164/769-313	460
769-165/769-313	460
769-171	440
769-171/000-006	440
769-176	436
769-176/000-006	436
769-176/000-012	436
769-181	458
769-182/769-314	458
769-183/769-314	458
769-184/769-314	458
769-185/769-314	458
769-191	462
769-192/769-319	462
769-193/769-319	462
769-194/769-319	462
769-195/769-319	462
769-201	442

Item No.	Page
769 Series	
769-202	449
769-203	449
769-207	442
769-208/281-410	451
769-208/281-411	451
769-209/281-413	453
769-209/281-434	453
769-211	440
769-212	449
769-213	449
769-214	446
769-217	440
769-218/281-410	451
769-218/281-411	451
769-219/281-413	453
769-219/281-434	453
769-221	438
769-222	448
769-223	448
769-227	438
769-228/281-410	450
769-228/281-411	450
769-229/281-413	452
769-229/281-434	452
769-231	436
769-232	448
769-233	448
769-237	436
769-238/281-410	450
769-238/281-411	450
769-239/281-413	452
769-239/281-434	452
769-242	456
769-243	456
769-251	444
769-251/000-006	444
769-257	444
769-301	442
769-302	442
769-303	440
769-304	440
769-305	438
769-306	438
769-307	436
769-308	436
769-309	449
769-310	449
769-311	449
769-312	449
769-313	449
769-314	449
769-315	446
769-317	456
769-318	456
769-319	456
769-320	444
769-402	486
769-410	298
769-411	476
769-412	476
769-413	476
769-414	476
769-428	486
769-429	486
769-430	486
769-431	486
769-434	477
769-435	436
769-436	486
769-438	436
769-439	436
769-470	436
769-471	436
769-472	436
769-499	476
769-501	490
769-501/000-006	490
769-501/000-016	490
769-502	490
769-502/000-006	490
769-502/000-016	490

Item No.	Page
769 Series	
769-503	490
769-503/000-006	490
769-503/000-016	490
769-504	490
769-504/000-006	490
769-504/000-016	490
769-505	490
769-505/000-006	490
769-505/000-016	490
769-506	490
769-506/000-006	490
769-506/000-016	490
769-512	490
769-512/000-006	490
769-512/000-016	490
769-513	490
769-513/000-006	490
769-513/000-016	490
769-515	490
769-515/000-006	490
769-515/000-016	490
769-602	476
769-602/001-000	476
769-602/002-000	476
769-602/004-000	476
769-602/005-000	478
769-602/006-000	479
769-603	476
769-603/001-000	476
769-603/002-000	476
769-603/004-000	476
769-603/005-000	478
769-603/006-000	479
769-604	476
769-604/001-000	476
769-604/002-000	476
769-604/004-000	476
769-604/005-000	478
769-604/006-000	479
769-605	476
769-605/001-000	476
769-605/002-000	476
769-605/004-000	476
769-605/005-000	478
769-605/006-000	479
769-606	476
769-606/001-000	476
769-606/002-000	476
769-606/004-000	476
769-606/005-000	478
769-606/006-000	479
769-607	476
769-607/001-000	476
769-607/002-000	476
769-607/004-000	476
769-607/005-000	478
769-607/006-000	479
769-608	476
769-608/001-000	476
769-608/002-000	476
769-608/004-000	476
769-608/005-000	478
769-608/006-000	479
769-609	476
769-609/001-000	476
769-609/002-000	476
769-609/004-000	476
769-609/005-000	478
769-609/006-000	479
769-610	476
769-610/001-000	476
769-610/002-000	476
769-610/004-000	476
769-610/005-000	478
769-610/006-000	479
769-611	476
769-611/001-000	476
769-611/002-000	476
769-611/004-000	476
769-611/005-000	478
769-611/006-000	479

Item No.	Page
769 Series	
769-612	476
769-612/001-000	476
769-612/002-000	476
769-612/004-000	476
769-612/005-000	478
769-612/006-000	479
769-613	476
769-613/001-000	476
769-613/002-000	476
769-613/004-000	476
769-613/005-000	478
769-613/006-000	479
769-614	476
769-614/001-000	476
769-614/002-000	476
769-614/004-000	476
769-614/005-000	478
769-614/006-000	479
769-615	476
769-615/001-000	476
769-615/002-000	476
769-615/004-000	476
769-615/005-000	478
769-615/006-000	479
769-632	480
769-632/000-036	480
769-632/003-000	481
769-632/003-036	481
769-632/004-000	482
769-632/007-000	484
769-633	480
769-633/000-036	480
769-633/003-000	481
769-633/003-036	481
769-633/004-000	482
769-633/007-000	484
769-634	480
769-634/000-036	480
769-634/003-000	481
769-634/003-036	481
769-634/004-000	482
769-634/007-000	484
769-635	480
769-635/000-036	480
769-635/003-000	481
769-635/003-036	481
769-635/004-000	482
769-635/007-000	484
769-636	480
769-636/003-000	481
769-636/003-036	481
769-636/004-000	482
769-636/007-000	484
769-637	480
769-637/003-000	481
769-637/004-000	482
769-637/007-000	484
769-638	480
769-638/003-000	481
769-638/004-000	482
769-638/007-000	484
769-639	480
769-639/003-000	481
769-639/004-000	482
769-639/007-000	484
769-640	480
769-640/003-000	481
769-640/004-000	482
769-640/007-000	484
769-641	480
769-641/003-000	481
769-641/004-000	482
769-641/007-000	484
769-642	480
769-642/003-000	481
769-642/004-000	482
769-642/007-000	484
769-643	480
769-643/003-000	481
769-643/004-000	482
769-643/007-000	484

Item Number Index

Item No.	Page
769 Series	
769-644	480
769-644/003-000	481
769-644/004-000	482
769-644/007-000	484
769-645	480
769-645/003-000	481
769-645/004-000	482
769-645/007-000	484
769-662	480
769-662/003-000	481
769-662/004-000	482
769-663	480
769-663/003-000	481
769-663/004-000	482
769-664	480
769-664/003-000	481
769-664/004-000	482
769-665	480
769-665/003-000	481
769-665/004-000	482
769-666	480
769-666/003-000	481
769-666/004-000	482
769-667	480
769-667/003-000	481
769-667/004-000	482
769-668	480
769-668/003-000	481
769-668/004-000	482
769-669	480
769-669/003-000	481
769-669/004-000	482
769-670	480
769-670/003-000	481
769-670/004-000	482
769-671	480
769-671/003-000	481
769-671/004-000	482
769-672	480
769-672/003-000	481
769-672/004-000	482
769-673	480
769-673/003-000	481
769-673/004-000	482
769-674	480
769-674/003-000	481
769-674/004-000	482
769-675	480
769-675/003-000	481
769-675/004-000	482
769-1602	494
769-1603	494
769-1604	494
769-1605	486
769-1606	494
769-1607	494
769-1608	494
769-1609	494
769-1610	494
769-1611	494
769-1612	494
769-1613	494
769-1614	494
769-1615	494
773 Series	
773-112	617
773-114	617
773-116	617
773-118	617
773-124	618
773-162	616
773-164	616
773-166	616
773-168	616
773-173	618
773-331	621
773-332	615
773-492	620
773-493	620
773-494	620

Item No.	Page
773 Series	
773-496	620
773-498	620
773-504	619
773-514	619
773-602	618
773-604	618
773-606	618
777 Series	
777-300	347
777-303	256
777-305	345
777-310	343
780 Series	
780-317	343
780-321	347
780-452	315
780-453	315
780-454	315
780-455	315
780-456	315
780-457	315
780-458	315
780-601	343
780-602	343
780-604	343
780-607	343
780-607/999-950	343
780-613	347
780-631	343
780-637	343
780-637/999-950	343
780-640	343
780-651	343
780-654	343
780-992	343
780-993	343
781 Series	
781-452	319
781-453	319
781-454	319
781-455	319
781-456	319
781-601	344
781-604	344
781-607	344
781-607/999-950	344
781-613	347
781-623	347
781-631	344
781-637	344
781-637/999-950	344
781-643	347
781-651	344
781-653	347
781-992	344
781-993	344
782 Series	
782-300	348
782-317	345
782-321	348
782-601	345
782-604	345
782-607	345
782-607/999-950	345
782-613	348
782-623	348
782-992	345
783 Series	
783-317	346
783-321	348
783-601	346
783-604	346
783-607	346

Item No.	Page
783 Series	
783-607/999-950	346
783-613	348
783-623	348
783-992	346
784 Series	
784-601	345
784-604	345
784-607	345
784-607/999-950	345
784-613	348
784-623	348
784-992	345
785 Series	
785-601	349
785-604	240
785-607	256
785-613	349
785-623	349
790 Series	
790-100	668
790-101	668
790-108	668
790-110	668
790-112	668
790-113	668
790-114	668
790-115	668
790-116	668
790-124	668
790-133	668
790-134	668
790-140	668
790-144	668
790-145	668
790-190	668
790-191	668
790-192	668
790-193	668
790-208	671
790-216	671
790-220	671
790-300	674
790-301	674
790-302	674
790-310	675
790-311	675
790-312	675
790-350/790-398	676
790-352/790-398	676
790-360/790-398	676
790-362/790-398	676
790-398	676
790-400	673
791 Series	
791-107	672
791-111	672
791-117	672
791-124	672
793 Series	
793-501	684
793-501/000-002	684
793-501/000-005	684
793-501/000-006	684
793-501/000-007	684
793-501/000-012	684
793-501/000-017	684
793-501/000-023	684
793-501/000-024	684
793-933	606
793-3501	684
793-4501	684
793-4501/000-002	684
793-4501/000-005	684
793-4501/000-006	684

Item No.	Page
793 Series	
793-4501/000-007	684
793-4501/000-012	684
793-4501/000-017	684
793-4501/000-023	684
793-4501/000-024	684
793-5500/793-035	592
793-5501	684
793-5501/000-002	684
793-5501/000-005	684
793-5501/000-006	684
793-5501/000-007	684
793-5501/000-012	684
793-5501/000-017	684
793-5501/000-023	684
793-5501/000-024	684
793-5502	592
793-5566	592
794 Series	
794-4615	334
794-4616	334
794-4617	334
794-4618	334
794-4619	334
794-5553/000-002	136
794-5554/000-006	136
794-5615	140
794-5616	140
794-5617	140
794-5618	140
794-5619	140
811 Series	
811-310	382
811-311	382
811-314	382
811-316	382
811-317	382
811-320	382
811-321	382
811-330	382
811-331	382
811-410	382
811-411	382
811-414	382
811-420	382
811-421	382
811-430	382
811-431	382
811-471	382
811-472	383
811-473	383
811-474	383
811-475	383
811-476	383
811-477	383
811-478	383
811-479	383
811-480	383
811-481	383
811-482	383
811-612	382
811-1316	384
812 Series	
812-100	611
812-101	611
812-102	611
812-103	611
812-104	611
812-110	611
812-111	611
812-112	611
812-113	611
812-114	611
812-140	611
812-141	611

Item No.	Page
821 Series	
821-104	272
821-106	272
821-107	272
821-108	273
821-109	273
821-110	274
821-111	274
821-112	275
821-113	275
821-122	273
821-123	274
821-129	275
821-153	69
821-154	69
821-155	69
821-160	276
821-161	276
821-162	276
859 Series	
859-500	194
862 Series	
862-482	558
862-503	559
862-504	560
862-505	561
862-515	561
862-525	561
862-532	558
862-533	559
862-534	560
862-552	558
862-562	558
862-593	559
862-594	560
862-603	559
862-604	560
862-605	561
862-615	561
862-625	561
862-632	558
862-633	559
862-634	560
862-652	558
862-662	558
862-693	559
862-694	560
862-1503	559
862-1503/999-950	559
862-1504	560
862-1504/999-950	560
862-1505	561
862-1505/999-950	561
862-1515	561
862-1515/999-950	561
862-1525	561
862-1525/999-950	561
862-1532	558
862-1532/999-950	558
862-1533	559
862-1533/999-950	559
862-1534	560
862-1534/999-950	560
862-1552	558
862-1552/999-950	558
862-1562	558
862-1562/999-950	558
862-1593	559
862-1593/999-950	559
862-1594	560
862-1594/999-950	560
862-1603	559
862-1603/999-950	559
862-1604	560
862-1604/999-950	560
862-1605	561
862-1605/999-950	561
862-1615	561
862-1615/999-950	561

Item No.	Page
862 Series	
862-1625	561
862-1625/999-950	561
862-1632	558
862-1632/999-950	558
862-1633	559
862-1633/999-950	559
862-1634	560
862-1634/999-950	560
862-1652	558
862-1652/999-950	558
862-1662	558
862-1662/999-950	558
862-1693	559
862-1693/999-950	559
862-1694	560
862-1694/999-950	560
862-2503	559
862-2504	560
862-2505	561
862-2515	561
862-2525	561
862-2532	558
862-2533	559
862-2534	560
862-2552	558
862-2562	558
862-2593	559
862-2594	560
862-2603	559
862-2604	560
862-2605	561
862-2615	561
862-2625	561
862-2632	558
862-2633	559
862-2634	560
862-2652	558
862-2662	558
862-2693	559
862-2694	560
862-8503	559
862-8504	560
862-8505	561
862-8515	561
862-8525	561
862-8533	559
862-8534	560
862-8593	559
862-8594	560
862-8603	559
862-8604	560
862-8605	561
862-8615	561
862-8625	561
862-8633	559
862-8634	560
862-8693	559
862-8694	560
862-9503	559
862-9504	560
862-9505	561
862-9515	561
862-9525	561
862-9533	559
862-9534	560
862-9593	559
862-9594	560
862-9603	559
862-9604	560
862-9605	561
862-9615	561
862-9625	561
862-9633	559
862-9634	560
862-9693	559
862-9694	560
869 Series	
869-102	527
869-103	527
869-104	527

Item No.	Page
869 Series	
869-105	527
869-106	527
869-107	527
869-108	527
869-109	527
869-110	527
869-111	527
869-112	527
869-132	527
869-133	527
869-134	527
869-135	527
869-136	527
869-137	527
869-138	527
869-139	527
869-140	527
869-141	527
869-142	527
869-152	527
869-153	527
869-154	527
869-155	527
869-156	527
869-157	527
869-158	527
869-159	527
869-160	527
869-161	527
869-162	527
869-182	527
869-183	527
869-184	527
869-185	527
869-186	527
869-187	527
869-188	527
869-189	527
869-190	527
869-191	527
869-192	527
869-202	527
869-203	527
869-204	527
869-205	527
869-206	527
869-207	527
869-208	527
869-209	527
869-210	527
869-211	527
869-212	527
869-232	527
869-233	527
869-234	527
869-235	527
869-236	527
869-237	527
869-238	527
869-239	527
869-240	527
869-241	527
869-242	527
869-301	528
869-304	528
869-307	528
869-309	528
869-311	529
869-314	529
869-316	529
869-317	529
869-319	529
869-321	528
869-324	528
869-326	528
869-327	528
869-328	528
869-329	528
869-331	528
869-334	528
869-337	528

Item No.	Page
869 Series	
869-339	528
869-341	528
869-344	528
869-347	528
869-349	528
869-351	528
869-354	528
869-357	528
869-359	528
869-375	528
869-377	528
869-378	528
869-379	528
869-385	528
869-387	528
869-388	528
869-389	528
869-395	528
869-397	528
869-398	528
869-399	528
870 Series	
870-101	466
870-102	466
870-103	466
870-104	466
870-107	466
870-108	466
870-109	466
870-117	466
870-118	466
870-119	466
870-127	466
870-131	472
870-137	472
870-138	472
870-148	472
870-149	472
870-151	470
870-157	470
870-158	470
870-168	470
870-169	470
870-182	513
870-183	513
870-184	513
870-184	529
870-402	466
870-403	466
870-404	466
870-405	466
870-405/011-000	513
870-406	466
870-406/020-000	513
870-407	466
870-407/011-000	513
870-408	466
870-409	466
870-409/011-000	513
870-410	466
870-425	509
870-426	519
870-427	519
870-433	466
870-434	466
870-435	466
870-436	466
870-437	466
870-438	466
870-439	466
870-440	466
870-501	510
870-502	510
870-503	510
870-504	510
870-507	510
870-508	510
870-509	510
870-517	510

Item Number Index

Item No.	Page
870 Series	
870-518	510
870-519	510
870-527	510
870-531	511
870-532	511
870-533	511
870-534	511
870-535	511
870-536	511
870-537	511
870-538	511
870-539	511
870-540/281-410	514
870-540/281-411	514
870-541/281-489	514
870-541/281-490	514
870-541/281-491	514
870-541/281-492	514
870-542/281-487	514
870-542/281-488	514
870-543/281-413	514
870-543/281-434	514
870-551	512
870-553	512
870-556	512
870-557	512
870-558	512
870-559	512
870-567	512
870-568	512
870-569	512
870-573	511
870-574	511
870-574/281-483	521
870-577	512
870-590/281-410	516
870-590/281-411	516
870-590/281-675	516
870-590/281-676	516
870-593/281-413	516
870-593/281-434	516
870-596/281-673	516
870-596/281-674	516
870-681	508
870-682	508
870-684	508
870-687	508
870-826	509
870-831	508
870-832	508
870-834	508
870-837	508
870-901	508
870-902	508
870-904	508
870-907	508
870-907/999-950	508
870-909	508
870-911	509
870-912	509
870-914	509
870-917	508
870-919	508
870-923	508
870-924	508
870-925	508
870-926	508
870-928	508
870-929	508
870-933	508
870-934	508
870-943	508
870-944	508
870-946	508
870-947	508
870-948	508
870-949	508
870-951	512
870-957/999-950	512
870-961	510
870-967/999-950	510

Item No.	Page
870 Series	
870-1131	468
870-1137	468
870-1138	468
870-1148	468
870-1149	468
873 Series	
873-902	662
873-903	662
873-953	663
887 Series	
887-802	659
887-803	660
887-804	660
887-805	660
887-850	660
887-851	660
887-852	660
887-853	660
887-910	658
887-912	658
887-925	658
887-926	659
887-927	658
887-927	659
887-928	658
887-928	659
887-931	659
887-932	659
887-934	658
887-952	661
887-953	661
887-955	660
887-957	660
887-959	661
887-960	661
2000 Series	
2000-115	52
2000-121	691
2000-402	36
2000-402/000-005	182
2000-402/000-006	182
2000-402/000-018	182
2000-403	36
2000-403/000-005	182
2000-403/000-006	182
2000-404	36
2000-404/000-005	182
2000-404/000-006	182
2000-405	36
2000-405/000-005	182
2000-405/000-006	182
2000-405/011-000	185
2000-406	36
2000-406/000-005	182
2000-406/000-006	182
2000-406/020-000	36
2000-407	36
2000-407/000-005	182
2000-407/000-006	182
2000-408	36
2000-408/000-005	182
2000-408/000-006	182
2000-409	36
2000-409/000-005	182
2000-409/000-006	182
2000-410	36
2000-410/000-005	182
2000-410/000-006	182
2000-433	36
2000-433/000-005	182
2000-433/000-006	182
2000-434	36
2000-435	36
2000-436	36
2000-437	36

Item No.	Page
2000 Series	
2000-438	36
2000-439	36
2000-440	36
2000-492	73
2000-510	36
2000-511	36
2000-549	36
2000-552	176
2000-553	176
2000-554	176
2000-555	176
2000-556	176
2000-557	176
2000-558	176
2000-559	176
2000-560	176
2000-1201	52
2000-1202	52
2000-1203	52
2000-1204	52
2000-1205	52
2000-1206	52
2000-1207	52
2000-1291	36
2000-1302	52
2000-1303	52
2000-1304	52
2000-1305	52
2000-1306	52
2000-1307	52
2000-1391	36
2000-1392	36
2000-1401	52
2000-1402	52
2000-1403	52
2000-1404	52
2000-1405	52
2000-1406	52
2000-1407	52
2000-1491	36
2000-1492	36
2000-2141	53
2000-2195	52
2000-2196	52
2000-2201	72
2000-2201/099-000	74
2000-2202	72
2000-2202/099-000	74
2000-2203	72
2000-2203/099-000	74
2000-2204	72
2000-2204/099-0003	74
2000-2207	72
2000-2207/099-000	74
2000-2208	72
2000-2208/099-000	74
2000-2209	72
2000-2209/099-0003	74
2000-2217	72
2000-2217/099-000	74
2000-2218	73
2000-2218/099-000	75
2000-2227	72
2000-2227/099-000	74
2000-2228	73
2000-2228/099-000	75
2000-2231	72
2000-2231/099-000	74
2000-2232	72
2000-2232/099-000	74
2000-2233	72
2000-2233/099-000	74
2000-2234	72
2000-2234/099-0003	74
2000-2237	72
2000-2237/099-000	74
2000-2238	72
2000-2238/099-000	74
2000-2239	72
2000-2239/099-0003	74
2000-2247	72

Item No.	Page
2000 Series	
2000-2247/099-000	74
2000-2248	73
2000-2248/099-000	75
2000-2257	72
2000-2257/099-000	74
2000-2258	73
2000-2258/099-000	75
2000-2291	73
2000-2292	73
2000-5310/101-000	149
2000-5310/102-000	149
2000-5310/1101-951	149
2000-5310/1102-950	149
2000-5311	146
2000-5311/1101-951	146
2000-5311/1102-950	146
2000-5317/101-000	148
2000-5317/102-000	148
2000-5317/1101-951	148
2000-5317/1102-950	148
2000-5352	146
2000-5352/1102-953	146
2000-5357/101-000	148
2000-5357/102-000	148
2000-5372	146
2000-5372/1102-953	146
2000-5377/101-000	148
2000-5377/102-000	148
2000-5391	146
2000-5410	149
2000-5410/1101-951	149
2000-5410/1102-950	149
2000-5417	147
2000-5417/1101-951	147
2000-5417/1102-950	147
2000-5457	147
2000-5457/1102-953	147
2000-5477	147
2000-5477/1102-953	147
2000-5491	147
2001 Series	
2001-115	54
2001-171	38
2001-402	38
2001-403	38
2001-404	38
2001-405	38
2001-405/011-000	38
2001-406	38
2001-406/020-000	38
2001-407	38
2001-408	38
2001-409	38
2001-410	38
2001-433	38
2001-434	38
2001-435	38
2001-436	38
2001-437	38
2001-438	38
2001-439	38
2001-440	38
2001-511	38
2001-549	55
2001-552	176
2001-553	176
2001-554	176
2001-555	176
2001-556	176
2001-557	176
2001-558	176
2001-559	176
2001-560	176
2001-1201	54
2001-1201/000-053	54
2001-1202	54
2001-1203	54
2001-1204	54
2001-1205	54
2001-1206	54

Item No.	Page
2001 Series	
2001-1207	54
2001-1208	54
2001-1211/1000-410	154
2001-1211/1000-411	154
2001-1301	54
2001-1301/000-053	54
2001-1302	54
2001-1303	54
2001-1304	54
2001-1305	54
2001-1306	54
2001-1307	54
2001-1308	54
2001-1311/1000-410	154
2001-1311/1000-411	154
2001-1321/1000-413	154
2001-1321/1000-434	154
2001-1401	54
2001-1401/000-053	54
2001-1402	54
2001-1403	54
2001-1404	54
2001-1405	54
2001-1406	54
2001-1407	54
2001-1408	54
2001-1411/1000-410	154
2001-1411/1000-411	154
2001-1421/1000-413	154
2001-1421/1000-434	154
2001-1441	55
2002 Series	
2002-115	26
2002-116	164
2002-121	691
2002-131	691
2002-160	690
2002-161	690
2002-171	26
2002-172	26
2002-191	189
2002-192	189
2002-194	189
2002-400	183
2002-400/000-005	183
2002-400/000-006	183
2002-401	94
2002-402	26
2002-402/000-005	182
2002-402/000-006	182
2002-403	26
2002-403/000-005	182
2002-403/000-006	182
2002-404	26
2002-404/000-005	182
2002-404/000-006	182
2002-405	26
2002-405/000-005	182
2002-405/000-006	182
2002-405/011-000	185
2002-406	26
2002-406/000-005	182
2002-406/000-006	182
2002-406/020-000	185
2002-407	26
2002-407/000-005	182
2002-407/000-006	182
2002-408	26
2002-408/000-005	182
2002-408/000-006	182
2002-409	26
2002-409/000-005	182
2002-409/000-006	182
2002-410	26
2002-410/000-005	182
2002-410/000-006	182
2002-413	183
2002-415	183
2002-423	183

Item No.	Page
2002 Series	
2002-423/000-005	183
2002-424	183
2002-424/000-005	183
2002-424/000-006	183
2002-433	26
2002-434	26
2002-435	26
2002-436	26
2002-437	26
2002-438	26
2002-439	26
2002-440	26
2002-472	184
2002-473	184
2002-473/011-000	184
2002-474	184
2002-475	184
2002-475/011-000	184
2002-476	184
2002-477	184
2002-477/011-000	184
2002-478	184
2002-479	184
2002-479/011-000	184
2002-480	184
2002-481	184
2002-481/011-000	184
2002-482	184
2002-492	187
2002-492/000-012	187
2002-493	187
2002-511	177
2002-541	176
2002-549	177
2002-552	177
2002-553	177
2002-554	177
2002-555	177
2002-556	177
2002-557	177
2002-558	177
2002-559	177
2002-560	177
2002-611	180
2002-641	180
2002-800	164
2002-800/1000-410	160
2002-800/1000-411	160
2002-800/1000-541	162
2002-800/1000-542	162
2002-800/1000-836	162
2002-810	164
2002-820	164
2002-880	161
2002-880/1000-411	161
2002-991	104
2002-992	104
2002-1091	87
2002-1092	87
2002-1201	56
2002-1202	56
2002-1203	56
2002-1204	56
2002-1205	56
2002-1206	56
2002-1207	56
2002-1208	56
2002-1211/1000-410	156
2002-1211/1000-411	156
2002-1291	38
2002-1292	38
2002-1293	38
2002-1294	38
2002-1301	56
2002-1302	56
2002-1303	56
2002-1304	56
2002-1305	56
2002-1306	56
2002-1307	56
2002-1308	56

Item No.	Page
2002 Series	
2002-1311/1000-410	156
2002-1311/1000-411	156
2002-1321/1000-413	156
2002-1321/1000-434	156
2002-1391	38
2002-1392	38
2002-1393	38
2002-1394	38
2002-1401	56
2002-1401/000-014	56
2002-1402	56
2002-1403	56
2002-1404	56
2002-1405	56
2002-1406	56
2002-1407	56
2002-1408	56
2002-1411/1000-410	156
2002-1411/1000-411	156
2002-1421/1000-413	156
2002-1421/1000-434	156
2002-1441	57
2002-1491	38
2002-1492	38
2002-1493	38
2002-1494	38
2002-1601	107
2002-1602	107
2002-1604	107
2002-1611	116
2002-1611/1000-541	116
2002-1611/1000-542	116
2002-1611/1000-836	116
2002-1611/1000-867	116
2002-1661	107
2002-1671	106
2002-1671/401-000	106
2002-1672	106
2002-1672/401-000	106
2002-1674	106
2002-1674/401-000	106
2002-1681	106
2002-1691	94
2002-1692	94
2002-1701	109
2002-1702	109
2002-1704	109
2002-1707	109
2002-1711	116
2002-1711/1000-541	116
2002-1711/1000-542	116
2002-1711/1000-836	116
2002-1711/1000-867	116
2002-1761	109
2002-1771	108
2002-1771/401-000	108
2002-1772	108
2002-1772/401-000	108
2002-1774	108
2002-1774/401-000	108
2002-1781	108
2002-1791	96
2002-1801	111
2002-1802	111
2002-1804	111
2002-1811	117
2002-1811/1000-541	117
2002-1811/1000-542	117
2002-1811/1000-836	117
2002-1811/1000-867	117
2002-1861	111
2002-1871	110
2002-1871/401-000	110
2002-1872	110
2002-1872/401-000	110
2002-1874	110
2002-1874/401-000	110
2002-1881	110
2002-1891	98
2002-1892	98
2002-1901	113

Item No.	Page
2002 Series	
2002-1902	113
2002-1904	113
2002-1907	113
2002-1911	116
2002-1911/1000-541	116
2002-1911/1000-542	116
2002-1911/1000-836	116
2002-1911/1000-867	116
2002-1961	113
2002-1971	112
2002-1971/401-000	112
2002-1972	112
2002-1972/401-000	112
2002-1974	112
2002-1974/401-000	112
2002-1981	115
2002-1981/1000-413	114
2002-1981/1000-414	114
2002-1981/1000-429	114
2002-1981/1000-434	114
2002-1981/1000-435	114
2002-1981/1000-449	114
2002-1991	100
2002-1992	100
2002-2201	76
2002-2201/097-000	80
2002-2201/098-000	80
2002-2201/099-000	78
2002-2202	76
2002-2202/099-000	78
2002-2203	76
2002-2203/099-000	78
2002-2204	76
2002-2204/099-000	78
2002-2206	76
2002-2207	76
2002-2207/099-000	78
2002-2208	76
2002-2208/099-000	78
2002-2209	76
2002-2209/099-000	78
2002-2211/1000-410	172
2002-2211/1000-411	172
2002-2213/1000-487	172
2002-2213/1000-488	172
2002-2214/1000-489	172
2002-2214/1000-490	172
2002-2214/1000-491	172
2002-2214/1000-492	172
2002-2217	76
2002-2217/099-000	78
2002-2218	77
2002-2218/099-000	79
2002-2221/1000-413	172
2002-2221/1000-434	172
2002-2227	76
2002-2227/099-000	78
2002-2228	77
2002-2228/099-000	79
2002-2231	76
2002-2231/099-000	78
2002-2232	76
2002-2232/099-000	78
2002-2233	76
2002-2233/099-000	78
2002-2234	76
2002-2234/099-000	78
2002-2237	76
2002-2237/099-000	78
2002-2238	76
2002-2238/099-000	78
2002-2239	76
2002-2239/099-000	78
2002-2247	76
2002-2247/099-000	78
2002-2248	77
2002-2248/099-000	79
2002-2257	76
2002-2257/099-000	78
2002-2258	77
2002-2258/099-000	79

Item Number Index

Item No.	Page
2002 Series	
2002-2291	77
2002-2292	77
2002-2295	77
2002-2296	77
2002-2401	82
2002-2402	82
2002-2403	82
2002-2404	82
2002-2407	82
2002-2408	82
2002-2409	82
2002-2417	82
2002-2418	83
2002-2427	82
2002-2428	83
2002-2431	82
2002-2432	82
2002-2433	82
2002-2434	82
2002-2437	82
2002-2438	82
2002-2439	82
2002-2447	82
2002-2448	83
2002-2457	82
2002-2458	83
2002-2491	83
2002-2492	83
2002-2601	84
2002-2602	84
2002-2603	84
2002-2604	84
2002-2607	84
2002-2608	84
2002-2609	84
2002-2611	85
2002-2611/1000-541	87
2002-2611/1000-542	87
2002-2611/1000-836	87
2002-2611/1000-867	87
2002-2612	87
2002-2647	84
2002-2657	84
2002-2661	86
2002-2662	86
2002-2667	86
2002-2671	86
2002-2672	86
2002-2678	86
2002-2691	85
2002-2692	85
2002-2701	81
2002-2702	81
2002-2703	81
2002-2704	81
2002-2707	81
2002-2707/999-950	81
2002-2708	81
2002-2709	81
2002-2717	81
2002-2727	81
2002-2731	81
2002-2791	70
2002-2792	70
2002-2941	170
2002-2951	168
2002-2952	168
2002-2954	168
2002-2958	168
2002-2959	168
2002-2961	140
2002-2963	140
2002-2971	168
2002-2972	168
2002-2974	168
2002-2991	140
2002-2992	140
2002-3201	90
2002-3203	90
2002-3204	90
2002-3207	90

Item No.	Page
2002 Series	
2002-3208	90
2002-3209	90
2002-3211/1000-410	174
2002-3211/1000-411	174
2002-3211/1000-675	174
2002-3211/1000-676	174
2002-3212/1000-673	174
2002-3212/1000-674	174
2002-3217	90
2002-3218	91
2002-3221/1000-413	174
2002-3221/1000-434	174
2002-3227	90
2002-3228	91
2002-3231	90
2002-3233	90
2002-3234	90
2002-3237	90
2002-3238	90
2002-3239	90
2002-3247	90
2002-3248	91
2002-3257	90
2002-3258	91
2002-3291	91
2002-3292	91
2002-4101	92
2002-4111	92
2002-4127	92
2002-4131	92
2002-4141	92
2002-4157	92
2002-4191	92
2002-4192	92
2002-6301	58
2002-6302	58
2002-6303	58
2002-6304	58
2002-6305	58
2002-6306	58
2002-6307	58
2002-6308	58
2002-6391	42
2002-6392	42
2002-6401	59
2002-6402	59
2002-6403	59
2002-6404	59
2002-6405	59
2002-6406	59
2002-6407	59
2002-7111	268
2002-7114	268
2002-7192	268
2002-7211	268
2002-7214	268
2002-7292	268
2003 Series	
2003-499	242
2003-500	242
2003-911	262
2003-911/1000-923	262
2003-6640	260
2003-6641	258
2003-6642	258
2003-6643	260
2003-6644	258
2003-6645	258
2003-6646	258
2003-6649	258
2003-6650	258
2003-6651	258
2003-6660	260
2003-6661	260
2003-6662	260
2003-6692	258
2003-6693	260
2003-6694	260
2003-7300	240

Item No.	Page
2003 Series	
2003-7640	256
2003-7641	256
2003-7642	256
2003-7645	256
2003-7646	256
2003-7649	256
2003-7650	256
2003-7651	256
2003-7659	256
2003-7692	256
2004 Series	
2004-115	27
2004-171	27
2004-172	27
2004-402	27
2004-403	44
2004-404	44
2004-405	27
2004-405/011-000	27
2004-406	27
2004-406/020-000	27
2004-407	27
2004-408	27
2004-409	27
2004-410	27
2004-433	27
2004-434	27
2004-435	27
2004-436	27
2004-437	27
2004-438	27
2004-439	27
2004-440	27
2004-511	178
2004-541	178
2004-549	178
2004-552	178
2004-553	178
2004-554	178
2004-555	178
2004-911	140
2004-911/1000-541	140
2004-911/1000-542	140
2004-911/1000-836	140
2004-911/1000-867	140
2004-1201	60
2004-1202	60
2004-1203	60
2004-1204	60
2004-1205	60
2004-1206	60
2004-1207	60
2004-1211/1000-400	158
2004-1211/1000-401	158
2004-1291	44
2004-1292	44
2004-1293	60
2004-1294	60
2004-1302	60
2004-1303	60
2004-1304	60
2004-1305	60
2004-1306	60
2004-1307	60
2004-1311/1000-400	158
2004-1311/1000-401	158
2004-1391	44
2004-1392	44
2004-1393	44
2004-1394	44
2004-1401	60
2004-1402	60
2004-1403	60
2004-1404	60
2004-1405	60
2004-1406	60
2004-1407	60
2004-1408	60
2004-1411/1000-400	158
2004-1411/1000-401	158

Item No.	Page
2004 Series	
2004-1491	44
2004-1492	44
2004-1493	60
2004-1494	44
2005 Series	
2005-7300	246
2005-7641	264
2005-7642	264
2005-7645	264
2005-7646	264
2005-7649	264
2005-7692	264
2006 Series	
2006-115	28
2006-191	28
2006-401	188
2006-401/000-050	188
2006-402	28
2006-403	28
2006-404	28
2006-405	28
2006-405/011-000	185
2006-433	28
2006-434	28
2006-435	28
2006-451	188
2006-499	38
2006-511	28
2006-549	28
2006-911	142
2006-911/1000-541	142
2006-911/1000-542	142
2006-911/1000-836	142
2006-921	142
2006-921/1000-541	142
2006-921/1000-542	142
2006-921/1000-836	142
2006-921/1000-859	142
2006-931	142
2006-931/099-000	142
2006-931/1000-541	142
2006-931/1000-836	142
2006-931/1000-859	142
2006-931/1000-867	142
2006-931/1099-541	143
2006-931/1099-542	143
2006-931/1099-836	143
2006-931/1099-859	143
2006-991	122
2006-992	122
2006-1201	62
2006-1202	62
2006-1203	62
2006-1204	62
2006-1207	62
2006-1208	62
2006-1291	46
2006-1292	46
2006-1293	46
2006-1294	46
2006-1301	62
2006-1302	62
2006-1303	62
2006-1304	62
2006-1305	62
2006-1306	62
2006-1307	62
2006-1391	46
2006-1392	46
2006-1393	46
2006-1394	46
2006-1601	125
2006-1604	125
2006-1611	128
2006-1611/1000-541	128
2006-1611/1000-542	128
2006-1611/1000-836	128
2006-1611/1000-867	128

Item No.	Page
2006 Series	
2006-1612	128
2006-1621	128
2006-1621/1000-541	128
2006-1621/1000-542	128
2006-1621/1000-836	128
2006-1621/1000-859	128
2006-1631	128
2006-1631/099-000	129
2006-1631/1000-541	128
2006-1631/1000-542	128
2006-1631/1000-836	128
2006-1631/1000-859	128
2006-1631/1000-867	128
2006-1631/1099-541	129
2006-1631/1099-542	129
2006-1631/1099-836	129
2006-1631/1099-859	129
2006-1631/1099-867	129
2006-1661	124
2006-1664	124
2006-1671	124
2006-1671/1000-848	124
2006-1671/1000-849	124
2006-1671/1000-850	124
2006-1671/1000-851	124
2006-1674	124
2006-1681	127
2006-1681/1000-413	126
2006-1681/1000-414	126
2006-1681/1000-429	126
2006-1681/1000-434	126
2006-1681/1000-435	126
2006-1681/1000-449	126
2006-1691	118
2006-1692	118
2006-1695	142
2006-1696	142
2006-7111	268
2006-7114	268
2006-7192	266
2006-7300	266
2006-8031	67
2006-8031/000-053	67
2006-8033	67
2006-8034	67
2006-8035	67
2006-8401	130
2006-8601	130
2006-8604	130
2006-8661	130
2006-8664	130
2006-8671	130
2006-8674	130
2006-8691	130
2006-8692	130
2007 Series	
2007-8442	136
2007-8443	136
2007-8444	136
2007-8445	136
2007-8446	136
2007-8447	136
2007-8448	136
2007-8801	136
2007-8804	136
2007-8807	137
2007-8811	136
2007-8821	136
2007-8873	138
2007-8876	139
2007-8891	136
2007-8892	136
2007-8893	136
2007-8894	136
2007-8899	136

Item No.	Page
2009 Series	
2009-110	684
2009-113	684
2009-114	684
2009-115	684
2009-145	685
2009-163	693
2009-174	28
2009-180	185
2009-182	28
2009-191	690
2009-192	690
2009-193	690
2009-196	690
2009-198	690
2009-304	240
2009-305	240
2009-309	708
2009-310	708
2009-402	186
2009-404	186
2009-406	186
2009-412	186
2009-414	186
2009-414/000-005	186
2009-414/000-006	186
2009-416	186
2010 Series	
2010-100	29
2010-115	29
2010-402	29
2010-403	29
2010-404	29
2010-405	29
2010-405/011-000	185
2010-433	29
2010-434	29
2010-435	29
2010-511	178
2010-549	178
2010-1201	63
2010-1201/000-053	63
2010-1202	63
2010-1204	63
2010-1205	63
2010-1206	63
2010-1207	63
2010-1208	63
2010-1209	63
2010-1291	47
2010-1292	47
2010-1301	63
2010-1301/000-053	63
2010-1302	63
2010-1303	63
2010-1304	63
2010-1305	63
2010-1306	63
2010-1307	63
2010-1309	63
2010-1391	47
2010-1392	47
2010-7111	268
2010-7114	268
2010-7192	268
2016 Series	
2016-100	30
2016-115	30
2016-402	30
2016-403	30
2016-404	30
2016-405	30
2016-405/011-000	185
2016-433	30
2016-434	30
2016-435	30
2016-499	47
2016-511	179
2016-549	179

Item No.	Page
2016 Series	
2016-1201	64
2016-1201/000-053	64
2016-1202	64
2016-1203	64
2016-1204	64
2016-1205	64
2016-1207	64
2016-1208	64
2016-1291	48
2016-1292	48
2016-1301	64
2016-1301/000-053	64
2016-1302	64
2016-1303	64
2016-1304	64
2016-1305	64
2016-1306	64
2016-1307	64
2016-1391	48
2016-1392	48
2016-7111	269
2016-7114	269
2016-7192	266
2016-7601	270
2016-7604	270
2016-7607	270
2016-7608	596
2016-7611	596
2016-7614	596
2016-7691	270
2016-7692	270
2016-7711	270
2016-7714	270
2016-7792	270
2020 Series	
2020-100	151
2020-102	151
2020-102/122-000	206
2020-102/132-000	206
2020-102/142-000	206
2020-103	198
2020-103/000-036	202
2020-103/000-037	202
2020-103/000-038	202
2020-103/000-039	203
2020-103	202
2020-103/122-000	206
2020-103/132-000	206
2020-103/142-000	206
2020-104	198
2020-104/000-036	202
2020-104/000-037	202
2020-104/000-038	202
2020-104/000-039	203
2020-104/124-000	206
2020-104/133-000	206
2020-104/143-000	206
2020-105	198
2020-105/000-036	202
2020-105/000-037	202
2020-105/000-038	202
2020-105/000-039	203
2020-105/124-000	206
2020-105/133-000	206
2020-105/143-000	206
2020-106	198
2020-106/000-036	202
2020-106/000-037	202
2020-106/000-038	202
2020-106/000-039	203
2020-106/124-000	206
2020-106/133-000	206
2020-106/143-000	206
2020-107	198
2020-107/000-036	202
2020-107/000-037	202
2020-107/000-038	202
2020-107/000-039	203
2020-107/124-000	206
2020-107/134-000	206

Item No.	Page
2020 Series	
2020-107/144-000	206
2020-108	198
2020-108/000-036	202
2020-108/000-037	202
2020-108/000-038	202
2020-108/000-039	203
2020-108/124-000	206
2020-108/134-000	206
2020-108/144-000	206
2020-109	198
2020-109/000-036	202
2020-109/000-037	202
2020-109/000-038	202
2020-109/000-039	203
2020-109/124-000	206
2020-109/134-000	206
2020-109/144-000	206
2020-110	198
2020-110/000-036	202
2020-110/000-037	202
2020-110/000-038	202
2020-110/000-039	203
2020-110/125-000	206
2020-110/135-000	206
2020-110/145-000	206
2020-111	198
2020-111/000-036	202
2020-111/000-037	202
2020-111/000-038	202
2020-111/000-039	203
2020-111/125-000	206
2020-111/135-000	206
2020-111/145-000	206
2020-112	198
2020-112/000-036	202
2020-112/000-037	202
2020-112/000-038	202
2020-112/000-039	203
2020-112/125-000	206
2020-112/135-000	206
2020-112/145-000	206
2020-113	198
2020-113/000-036	202
2020-113/000-037	202
2020-113/000-038	202
2020-113/000-039	203
2020-113/125-000	206
2020-113/135-000	206
2020-113/145-000	206
2020-114	198
2020-114/000-036	202
2020-114/000-037	202
2020-114/000-038	202
2020-114/000-039	203
2020-114/125-000	206
2020-114/135-000	206
2020-114/145-000	206
2020-115	198
2020-115/000-036	202
2020-115/000-037	202
2020-115/000-038	202
2020-115/000-039	203
2020-115/125-000	206
2020-115/135-000	206
2020-115/145-000	206
2020-161	200
2020-164	200
2020-167	200
2020-181	200
2020-184	200
2020-187	200
2020-202	198
2020-202/122-000	208
2020-202/132-000	208
2020-202/142-000	208
2020-203	198
2020-203/000-036	204
2020-203/000-037	204
2020-203/000-038	204
2020-203/000-039	205
2020-203/122-000	208

Item Number Index

Item No.	Page
2020 Series	
2020-203/132-000	208
2020-203/142-000	208
2020-204	198
2020-204/000-036	204
2020-204/000-037	204
2020-204/000-038	204
2020-204/000-039	205
2020-204/124-000	208
2020-204/133-000	208
2020-204/143-000	208
2020-205	198
2020-205/000-036	204
2020-205/000-037	204
2020-205/000-038	204
2020-205/000-039	205
2020-205/124-000	208
2020-205/133-000	208
2020-205/143-000	208
2020-206	198
2020-206/000-036	204
2020-206/000-037	204
2020-206/000-038	204
2020-206/000-039	205
2020-206/124-000	208
2020-206/133-000	208
2020-206/143-000	208
2020-207	198
2020-207/000-036	204
2020-207/000-037	204
2020-207/000-038	204
2020-207/000-039	205
2020-207/124-000	208
2020-207/134-000	208
2020-207/144-000	208
2020-208	198
2020-208/000-036	204
2020-208/000-037	204
2020-208/000-038	204
2020-208/000-039	205
2020-208/124-000	208
2020-208/134-000	208
2020-208/144-000	208
2020-209	198
2020-209/000-036	204
2020-209/000-037	204
2020-209/000-038	204
2020-209/000-039	205
2020-209/124-000	208
2020-209/134-000	208
2020-209/144-000	208
2020-210	198
2020-210/000-036	204
2020-210/000-037	204
2020-210/000-038	204
2020-210/000-039	205
2020-210/125-000	208
2020-210/135-000	208
2020-210/145-000	208
2020-211	198
2020-211/000-036	204
2020-211/000-037	204
2020-211/000-038	204
2020-211/000-039	205
2020-211/125-000	208
2020-211/135-000	208
2020-211/145-000	208
2020-212	198
2020-212/000-036	204
2020-212/000-037	204
2020-212/000-038	204
2020-212/000-039	205
2020-212/125-000	208
2020-212/135-000	208
2020-212/145-000	208
2020-213	198
2020-213/000-036	204
2020-213/000-037	204
2020-213/000-038	204
2020-213/000-039	205
2020-213/125-000	208
2020-213/135-000	208

Item No.	Page
2020 Series	
2020-213/145-000	208
2020-214	198
2020-214/000-036	204
2020-214/000-037	204
2020-214/000-038	204
2020-214/000-039	205
2020-214/125-000	208
2020-214/135-000	208
2020-214/145-000	208
2020-215	198
2020-215/000-036	204
2020-215/000-037	204
2020-215/000-038	204
2020-215/000-039	205
2020-215/125-000	208
2020-215/135-000	208
2020-215/145-000	208
2020-261	200
2020-264	200
2020-267	200
2020-281	200
2020-284	200
2020-287	200
2020-1201	194
2020-1204	194
2020-1207	194
2020-1291	194
2020-1292	194
2020-1301	194
2020-1304	194
2020-1307	194
2020-1391	194
2020-1392	194
2020-1401	194
2020-1404	194
2020-1407	194
2020-1491	194
2020-1492	194
2020-2201	196
2020-2202	196
2020-2203	196
2020-2204	196
2020-2207	196
2020-2208	196
2020-2209	196
2020-2217	196
2020-2227	196
2020-2231	196
2020-2232	196
2020-2233	196
2020-2234	196
2020-2237	196
2020-2238	196
2020-2239	196
2020-2247	196
2020-2257	196
2020-2291	197
2020-2292	197
2020-5311	151
2020-5311/1102-950	151
2020-5317/102-000	153
2020-5317/1102-950	153
2020-5372	151
2020-5372/1102-953	151
2020-5377/102-000	153
2020-5391	151
2020-5417	152
2020-5417/1102-950	152
2020-5477	152
2020-5477/1102-953	152
2020-5491	152
2022 Series	
2022-100	210
2022-101	210
2022-101/122-000	224
2022-101/122-006	224
2022-101/122-016	224
2022-101/132-000	224
2022-101/132-006	224

Item No.	Page
2022 Series	
2022-101/132-016	224
2022-101/142-000	224
2022-101/142-006	224
2022-101/142-016	224
2022-102	218
2022-102/122-000	224
2022-102/132-000	224
2022-102/142-000	224
2022-102/999-953	234
2022-103	218
2022-103/000-036	222
2022-103/000-037	222
2022-103/000-038	222
2022-103/000-038/999-953	235
2022-103/000-039	223
2022-103/123-000	224
2022-103/133-000	224
2022-103/143-000	224
2022-103/999-953	234
2022-104	218
2022-104/000-036	222
2022-104/000-037	222
2022-104/000-038	222
2022-104/000-038/999-953	235
2022-104/000-039	223
2022-104/123-000	224
2022-104/133-000	224
2022-104/143-000	224
2022-104/999-953	234
2022-105	218
2022-105/000-036	222
2022-105/000-037	222
2022-105/000-038	222
2022-105/000-038/999-953	235
2022-105/000-039	223
2022-105/123-000	224
2022-105/134-000	224
2022-105/144-000	224
2022-105/999-953	234
2022-106	218
2022-106/000-036	222
2022-106/000-037	222
2022-106/000-038	222
2022-106/000-038/999-953	235
2022-106/000-039	223
2022-106/123-000	224
2022-106/134-000	224
2022-106/144-000	224
2022-106/999-953	234
2022-107	218
2022-107/000-036	222
2022-107/000-037	222
2022-107/000-038	222
2022-107/000-039	223
2022-107/123-000	224
2022-107/135-000	224
2022-107/145-000	224
2022-107/999-953	234
2022-108	218
2022-108/000-036	222
2022-108/000-037	222
2022-108/000-038	222
2022-108/000-039	223
2022-108/123-000	224
2022-108/135-000	224
2022-108/145-000	224
2022-108/999-953	234
2022-109	218
2022-109/000-036	222
2022-109/000-037	222
2022-109/000-038	222
2022-109/000-039	223
2022-109/123-000	224
2022-109/135-000	224
2022-109/145-000	224
2022-110	218
2022-110/000-036	222
2022-110/000-037	222
2022-110/000-038	222
2022-110/000-039	223
2022-110/123-000	224

Item No.	Page
2022 Series	
2022-110/135-000	224
2022-110/145-000	224
2022-111	218
2022-111/000-036	222
2022-111/000-037	222
2022-111/000-038	222
2022-111/000-039	223
2022-111/126-000	224
2022-111/136-000	224
2022-111/146-000	224
2022-112	218
2022-112/000-036	222
2022-112/000-037	222
2022-112/000-038	222
2022-112/000-039	223
2022-112/126-000	224
2022-112/136-000	224
2022-112/146-000	224
2022-113	218
2022-113/000-036	222
2022-113/000-037	222
2022-113/000-038	222
2022-113/000-039	223
2022-113/126-000	224
2022-113/136-000	224
2022-113/146-000	224
2022-114	218
2022-114/000-036	222
2022-114/000-037	222
2022-114/000-038	222
2022-114/000-039	223
2022-114/126-000	224
2022-114/136-000	224
2022-114/146-000	224
2022-115	218
2022-115/000-036	222
2022-115/000-037	222
2022-115/000-038	222
2022-115/000-039	223
2022-115/127-000	224
2022-115/137-000	224
2022-115/147-000	224
2022-141	198
2022-142	198
2022-151	198
2022-152	198
2022-161	220
2022-162	220
2022-164	220
2022-167	220
2022-171	220
2022-172	220
2022-174	220
2022-177	220
2022-181	220
2022-182	220
2022-184	220
2022-187	220
2022-1201	212
2022-1201/999-953	228
2022-1202	212
2022-1204	212
2022-1204/999-953	228
2022-1207	212
2022-1207/999-953	228
2022-1291	210
2022-1292	210
2022-1301	212
2022-1301/999-953	228
2022-1302	212
2022-1304	212
2022-1304/999-953	228
2022-1307	212
2022-1307/999-953	228
2022-1391	210
2022-1392	210
2022-1401	212
2022-1401/999-953	228
2022-1402	212
2022-1404	212
2022-1404/999-953	228

Item No.	Page
2022 Series	
2022-1407	212
2022-1407/999-953	228
2022-1491	210
2022-1492	210
2022-1601	214
2022-1601/999-953	230
2022-1604	214
2022-1604/999-953	230
2022-1607	214
2022-1607/999-953	230
2022-1691	214
2022-1692	214
2022-1801	214
2022-1801/999-953	230
2022-1804	214
2022-1804/999-953	230
2022-1807	214
2022-1807/999-953	230
2022-1891	214
2022-1892	214
2022-2201	216
2022-2201/999-953	232
2022-2202	216
2022-2202/999-953	232
2022-2203	216
2022-2203/999-953	232
2022-2204	216
2022-2204/999-953	232
2022-2207	216
2022-2207/999-953	232
2022-2208	216
2022-2208/999-953	232
2022-2209	216
2022-2209/999-953	232
2022-2217	216
2022-2217/999-953	232
2022-2227	216
2022-2227/999-953	232
2022-2231	216
2022-2231/999-953	232
2022-2232	216
2022-2232/999-953	232
2022-2233	216
2022-2233/999-953	232
2022-2234	216
2022-2234/999-953	232
2022-2237	216
2022-2237/999-953	232
2022-2238	216
2022-2238/999-953	232
2022-2239	216
2022-2239/999-953	232
2022-2247	216
2022-2247/999-953	232
2022-2257	216
2022-2257/999-953	232
2022-2291	217
2022-2292	217
2042 Series	
2042-321	166
2050 Series	
2050-301	290
2050-301/000-014	290
2050-302	290
2050-303	290
2050-304	290
2050-305	290
2050-306	290
2050-307	290
2050-311	291
2050-311/000-014	291
2050-312	291
2050-313	291
2050-314	291
2050-315	291
2050-316	291
2050-317	291
2050-321	290

Item No.	Page
2050 Series	
2050-321/000-014	290
2050-322	290
2050-323	290
2050-324	290
2050-325	290
2050-326	290
2050-327	290
2050-381	286
2052 Series	
2052-301	292
2052-301/000-014	292
2052-302	292
2052-303	292
2052-304	292
2052-305	292
2052-306	292
2052-307	292
2052-311	293
2052-311/000-014	293
2052-312	293
2052-313	293
2052-314	293
2052-315	293
2052-316	293
2052-317	293
2052-321	292
2052-321/000-014	292
2052-322	292
2052-323	292
2052-324	292
2052-325	292
2052-326	292
2052-327	292
2052-381	288
2052-391	289
2052-1201	285
2052-1201/000-014	285
2052-1202	285
2052-1203	285
2052-1204	285
2052-1205	285
2052-1206	285
2052-1207	285
2052-1291	283
2102 Series	
2102-1201	26
2102-1204	26
2102-1207	26
2102-1291	26
2102-1292	26
2102-1301	26
2102-1304	26
2102-1307	26
2102-1391	26
2102-1392	26
2102-5201	31
2102-5204	31
2102-5207	31
2102-5301	31
2102-5304	31
2102-5307	31
2104 Series	
2104-1201	27
2104-1204	27
2104-1207	27
2104-1291	27
2104-1292	27
2104-1301	27
2104-1304	27
2104-1307	27
2104-1391	27
2104-1392	27
2104-5201	32
2104-5204	32
2104-5207	32
2104-5301	32
2104-5304	32

Item No.	Page
2104 Series	
2104-5307	32
2106 Series	
2106-1201	28
2106-1204	28
2106-1207	28
2106-1291	28
2106-1292	28
2106-1301	28
2106-1304	28
2106-1307	28
2106-1391	28
2106-1392	28
2106-5201	33
2106-5204	33
2106-5207	33
2106-5301	33
2106-5304	33
2106-5307	33
2110 Series	
2110-1201	29
2110-1204	29
2110-1207	29
2110-1291	29
2110-1292	29
2110-1301	29
2110-1304	29
2110-1307	29
2110-1391	29
2110-1392	29
2110-5201	34
2110-5204	34
2110-5207	34
2110-5301	34
2110-5304	34
2110-5307	34
2116 Series	
2116-1201	30
2116-1201/605-038	30
2116-1204	30
2116-1207	30
2116-1291	30
2116-1292	30
2116-1301	30
2116-1304	30
2116-1307	30
2116-1391	30
2116-1392	30
2116-5201	35
2116-5204	35
2116-5207	35
2116-5301	35
2116-5304	35
2116-5307	35
2200 Series	
2200-1201	36
2200-1204	36
2200-1207	36
2200-1301	36
2200-1304	36
2200-1307	36
2200-1401	36
2200-1404	36
2200-1407	36
2201 Series	
2201-1201	38
2201-1201/000-053	38
2201-1204	38
2201-1207	38
2201-1301	38
2201-1301/000-053	38
2201-1302	38

Item No.	Page
2201 Series	
2201-1302/000-053	38
2201-1304	38
2201-1307	38
2201-1401	38
2201-1401/000-053	38
2201-1402/000-053	38
2201-1404	38
2201-1407	38
2202 Series	
2202-1201	40
2202-1202	40
2202-1203	40
2202-1204	40
2202-1205	40
2202-1206	40
2202-1207	40
2202-1209	40
2202-1301	40
2202-1302	40
2202-1303	40
2202-1304	40
2202-1305	40
2202-1306	40
2202-1307	40
2202-1309	40
2202-1401	40
2202-1402	40
2202-1403	40
2202-1404	40
2202-1405	40
2202-1406	40
2202-1407	40
2202-1409	40
2202-1601	95
2202-1602	95
2202-1604	95
2202-1611	104
2202-1611/1000-541	104
2202-1611/1000-542	104
2202-1611/1000-836	104
2202-1611/1000-867	104
2202-1661	94
2202-1671	94
2202-1672	94
2202-1674	94
2202-1681	94
2202-1701	97
2202-1702	97
2202-1704	97
2202-1707	97
2202-1711	104
2202-1711/1000-541	104
2202-1711/1000-542	104
2202-1711/1000-836	104
2202-1711/1000-867	104
2202-1761	96
2202-1771	96
2202-1772	96
2202-1774	96
2202-1781	96
2202-1801	99
2202-1802	99
2202-1804	99
2202-1811	105
2202-1811/1000-541	105
2202-1811/1000-542	105
2202-1811/1000-836	105
2202-1811/1000-867	105
2202-1861	98
2202-1871	98
2202-1872	98
2202-1874	98
2202-1881	98
2202-1901	101
2202-1902	101
2202-1904	101
2202-1907	100
2202-1911	104
2202-1911/1000-541	104
2202-1911/1000-542	104

Item Number Index

Item No.	Page
2202 Series	
2202-1911/1000-836	104
2202-1911/1000-867	104
2202-1961	100
2202-1971	100
2202-1972	100
2202-1974	100
2202-1981	103
2202-1981/1000-413	102
2202-1981/1000-414	102
2202-1981/1000-429	102
2202-1981/1000-434	102
2202-1981/1000-435	102
2202-1981/1000-449	102
2202-2701	70
2202-2702	70
2202-2703	70
2202-2704	70
2202-2707	70
2202-2708	70
2202-2709	70
2202-2717	70
2202-2727	70
2202-2731	70
2202-3201	88
2202-3203	88
2202-3204	88
2202-3207	88
2202-3208	88
2202-3209	88
2202-3217	88
2202-3218	89
2202-3227	88
2202-3228	89
2202-3231	88
2202-3233	88
2202-3234	88
2202-3237	88
2202-3238	88
2202-3239	88
2202-3247	88
2202-3248	89
2202-3257	88
2202-3258	89
2202-6301	42
2202-6302	42
2202-6303	42
2202-6304	42
2202-6305	42
2202-6306	42
2202-6307	42
2202-6401	43
2202-6402	43
2202-6403	43
2202-6404	43
2202-6405	43
2202-6406	43
2202-6407	43
2203 Series	
2203-6540	244
2203-6541	242
2203-6542	242
2203-6543	244
2203-6544	242
2203-6545	242
2203-6546	242
2203-6549	242
2203-6550	242
2203-6551	242
2203-6560	244
2203-6561	244
2203-6640	252
2203-6641	250
2203-6642	250
2203-6643	252
2203-6644	250
2203-6645	250
2203-6646	250
2203-6649	250
2203-6650	250
2203-6651	250
2203-6660	252
2203-6661	252
2203-6692	242
2203-6693	244
2203-6693	252
2203-6694	244
2203-7540	240
2203-7541	240
2203-7542	240
2203-7545	240
2203-7546	240
2203-7549	240
2203-7550	240
2203-7551	240
2203-7559	240
2203-7640	248
2203-7641	248
2203-7642	248
2203-7645	248
2203-7646	248
2203-7649	248
2203-7650	248
2203-7651	248
2203-7659	248
2203-7692	240
2204 Series	
2204-1201	44
2204-1202	44
2204-1203	44
2204-1204	44
2204-1205	44
2204-1206	44
2204-1207	44
2204-1209	44
2204-1301	44
2204-1302	44
2204-1303	44
2204-1304	44
2204-1305	44
2204-1306	44
2204-1307	44
2204-1309	44
2204-1401	44
2204-1402	44
2204-1403	44
2204-1404	44
2204-1405	44
2204-1406	44
2204-1407	44
2204-1409	44
2205 Series	
2205-7541	246
2205-7542	246
2205-7545	246
2205-7546	246
2205-7549	246
2205-7641	254
2205-7642	254
2205-7645	254
2205-7646	254
2205-7649	254
2205-7692	246
2206 Series	
2206-1201	46
2206-1204	46
2206-1207	46
2206-1301	46
2206-1303	46
2206-1304	46
2206-1305	46
2206-1307	46
2206-1611	122
2206-1611/1000-541	122
2206-1611/1000-542	122
2206-1611/1000-836	122
2206-1611/1000-867	122
2206-1612	122
2206-1615	122
2206-1621	122
2206-1621/1000-541	122
2206-1621/1000-542	122
2206-1621/1000-836	122
2206-1621/1000-859	122
2206-1621/1000-867	122
2206-1622	122
2206-1624	122
2206-1631	122
2206-1631/099-000	123
2206-1631/1000-541	122
2206-1631/1000-542	122
2206-1631/1000-836	122
2206-1631/1000-859	122
2206-1631/1000-867	122
2206-1631/1099-541	123
2206-1631/1099-542	123
2206-1631/1099-836	123
2206-1631/1099-859	123
2206-1631/1099-867	123
2206-1661	118
2206-1662	118
2206-1663	118
2206-1664	118
2206-1671	118
2206-1671/1000-848	118
2206-1671/1000-849	118
2206-1671/1000-850	118
2206-1671/1000-851	118
2206-1672	118
2206-1673	118
2206-1674	118
2206-1675	118
2206-1681	121
2206-1681/1000-413	120
2206-1681/1000-414	120
2206-1681/1000-429	120
2206-1681/1000-434	120
2206-1681/1000-435	120
2206-1681/1000-449	120
2206-7111	266
2206-7114	266
2206-8031	66
2206-8031/000-053	66
2206-8033	66
2206-8034	66
2206-8035	66
2210 Series	
2210-1201	47
2210-1203	47
2210-1204	47
2210-1205	47
2210-1207	47
2210-1301	47
2210-1303	47
2210-1304	47
2210-1305	47
2210-1307	47
2216 Series	
2216-1201	48
2216-1203	48
2216-1204	48
2216-1205	48
2216-1207	48
2216-1301	48
2216-1303	48
2216-1304	48
2216-1305	48
2216-1307	48
2216-7111	266
2216-7114	266
2222 Series	
2222-1201	210
2222-1201/999-953	226
2222-1202	210
2222-1202/999-953	226
2222-1204	210
2222-1204/999-953	226
2222-1207	210
2222-1207/999-953	226
2222-1301	210
2222-1301/999-953	226
2222-1302	210
2222-1302/999-953	226
2222-1304	210
2222-1304/999-953	226
2222-1307	210
2222-1307/999-953	226
2222-1401	210
2222-1401/999-953	226
2222-1402	210
2222-1402/999-953	226
2222-1404	210
2222-1404/999-953	226
2222-1407	210
2222-1407/999-953	226
2250 Series	
2250-301	286
2250-301/000-014	286
2250-302	286
2250-303	286
2250-304	286
2250-305	286
2250-306	286
2250-307	286
2250-311	287
2250-311/000-014	287
2250-312	287
2250-313	287
2250-314	287
2250-315	287
2250-316	287
2250-317	287
2250-321	286
2250-321/000-014	286
2250-322	286
2250-323	286
2250-324	286
2250-325	286
2250-326	286
2250-327	286
2250-1201	282
2250-1201/000-014	282
2250-1202	282
2250-1203	282
2250-1204	282
2250-1205	282
2250-1206	282
2250-1207	282
2252 Series	
2252-301	288
2252-301/000-014	288
2252-302	288
2252-303	288
2252-304	288
2252-305	288
2252-306	288
2252-307	288
2252-311	289
2252-311/000-014	289
2252-312	289
2252-313	289
2252-314	289
2252-315	289
2252-316	289
2252-317	289
2252-321	288
2252-321/000-014	288
2252-322	288
2252-323	288
2252-324	288
2252-326	288
2252-327	288

Item No.	Page
2252 Series	
2252-1201	283
2252-1201/000-014	283
2252-1202	283
2252-1203	283
2252-1204	283
2252-1205	283
2252-1206	283
2252-1207	283
2273 Series	
2273-202	615
2273-203	615
2273-204	615
2273-205	615
2273-208	615
2273-500	615

Success for Generations: Environmental Protection at WAGO



At WAGO, we see environmental protection not only as compliance with environmental protection requirements.

As a growing company, our commitment to the environment drives our efforts to deliver new ideas, new concepts and new technologies along the product lifecycle. Here our employees and business partners support us.

Corporate Environmental Protection

Business growth also leads to higher consumption of resources. We have realized that the economic success of a company also depends on the achievement of environmental goals.
As a manufacturing company, we therefore support developments that make a contribution to environmental protection. In doing so, we always pursue individual material flows along the value chain, because we see resources, product design, production and consumption as a whole.
With our environmental management system certified in accordance with DIN EN ISO 14001, we ensure that the required national and international requirements are complied with in all areas of the company and that the concept of environmental protection is practiced in all corporate processes. In addition, WAGO is pursuing further efforts in the field of environmental protection that go far beyond the requirements of ISO.
Some examples include the recycling of plastics, resource savings on product and packaging materials, the use of recycled paper throughout the company, the introduction of e-filling stations and the use of waste heat from production processes.

Product-Related Environmental Protection

Product-related environmental protection is an important part of sustainable environmental management at WAGO. Ensuring compliance with substance bans / restrictions worldwide, such as: As REACH, RoHS has a high priority.

RoHS – Restriction of the Use of Certain Hazardous Substances

It is an EC directive that regulates the use of certain hazardous substances in electrical and electronic equipment. In addition to reducing the harmful effects on humans and the environment, legislation aims to improve recycling possibilities. WAGO closely monitors the development regarding RoHS and reacts promptly to specifications accordingly. For more information about RoHS please contact us via ehs-product-compliance@wago.com.

RoHS ✓ Compliant

Success for Generations: Environmental Protection at WAGO

REACH – Registration, Evaluation and Authorisation of Chemicals

On 01.06.2007 the regulation (EC) no. 1907/2006 (REACH regulation) came into force and since then forms a valid legal basis for all EU member states. To protect human health and the environment, this EU Chemicals Regulation aims to classify and identify all chemicals, including their effects.

The REACH Regulation creates specific obligations for each actor in the supply chain. The products manufactured by WAGO are to be designated as products in the sense of the regulation. Since products are not subject to registration, WAGO usually assumes the role of the downstream user in the supply chain. WAGO therefore has an obligation to provide information along the supply chain in accordance with REACH Article 33. WAGO is naturally aware of this obligation.

For more information about our reporting requirements according to REACH Article 33 please visit our website "REACH SVHC Declaration" via www.wago.com/svhc

BOMcheck

European legislation such as REACH or RoHS requires the provision of information on restricted ingredients in products. This information must be shared by manufacturers and suppliers in the supply chain. WAGO meets this challenge in product-related environmental protection successfully and efficiently with BOMcheck.

BOMcheck is a centralized database for the declaration of ingredients. It is a compliance tool specifically designed to enable manufacturers and suppliers to produce their substance declarations under REACH, RoHS, and other restrictions on ingredients in an efficient and structured manner. This Internet database system increases data quality in the area of product-related environmental protection.

Further information on BOMcheck can be found at the following link: http://www.bomcheck.net

WEEE – Waste of Electrical and Electronic Equipment

The WEEE Directive 2012/19/EU regulates the take-back and recycling of electrical and electronic equipment. Manufacturers and importers of electrical and electronic equipment are obliged to register as a `WEEE producer´ and to comply with the reporting and take-back obligations. As a matter of course, we have taken compliance with legal WEEE requirements very seriously all the time - in our own interest as well as in the well-understood interest of our customers.
Only some of our products fall within the scope of the WEEE Directive and the Member State's implementation laws. These products are WEEE-compliant marked by us, as far as such a marking is legally required (which is not required for the B2B area Europe-wide).
For more information about WEEE please contact us via ehs-product-compliance@wago.com.

Less is More: Our Packaging

Recycling is the basis for choosing our packaging materials. All packaging used by WAGO can be recycled in the economic cycle without further pretreatment. In addition to the aspect of recycling, emphasis is placed on resource conservation. For this reason, our cardboard boxes consist of 80% recycled paper and are marked with the Resy symbol. The Resy symbol guarantees compliance with the Packaging Ordinance for transport packaging. The labeling is partly done by perforation. This process enables the colorless printing of WAGO cardboard boxes. This avoids unnecessary environmental pollution.

Notes

Notes

Notes

Notes

Notes

0888-9901/0100-6901 – WAGO Rail-Mount Terminal Blocks and Connectors 2023/2024 GB – 03/2023-00 – Printed in Germany – Subject to changes

WAGO GmbH & Co. KG
Postfach 2880 · D · 32385 Minden
Hansastraße 27 · D · 32423 Minden
info@wago.com
www.wago.com

Headquarters +49 571 887 - 0
Sales +49 571 887 - 44222
Order Service +49 571 887 - 44333

Current adresses at **www.wago.com**

WAGO is a registered trademark of WAGO Verwaltungsgesellschaft mbH.
"Copyright – WAGO GmbH & Co. KG – All rights reserved.
The content and structure of the WAGO websites, catalogs, videos and other WAGO media are subject to copyright. Distribution or modification to the contents of these pages and videos is prohibited. Furthermore, the content may neither be copied nor made available to third parties for commercial purposes. Also subject to copyright are the images and videos that were made available to WAGO GmbH & Co. KG by third parties."