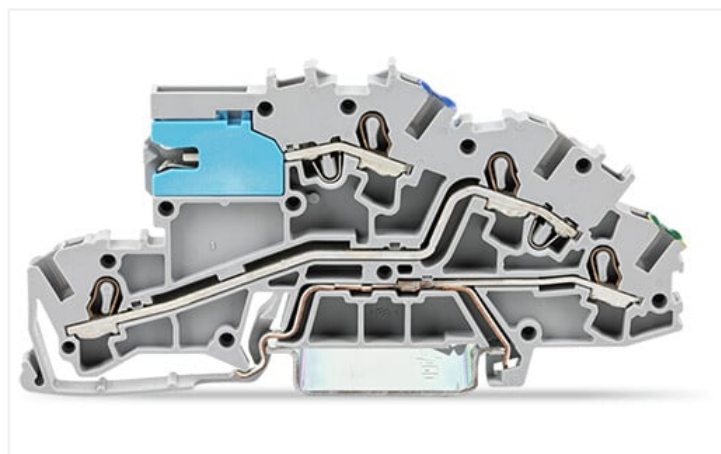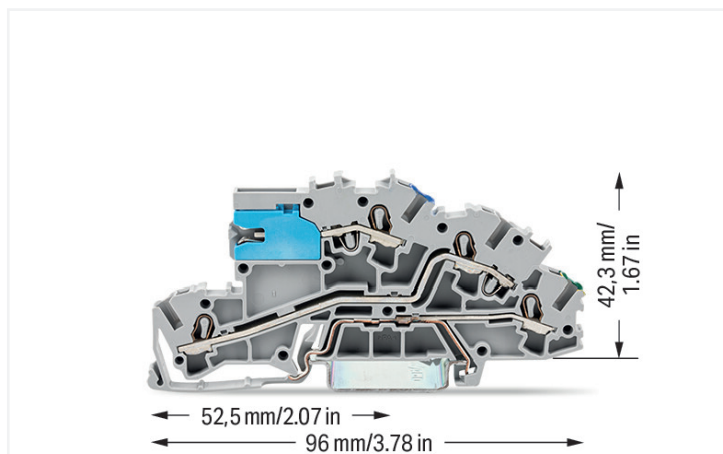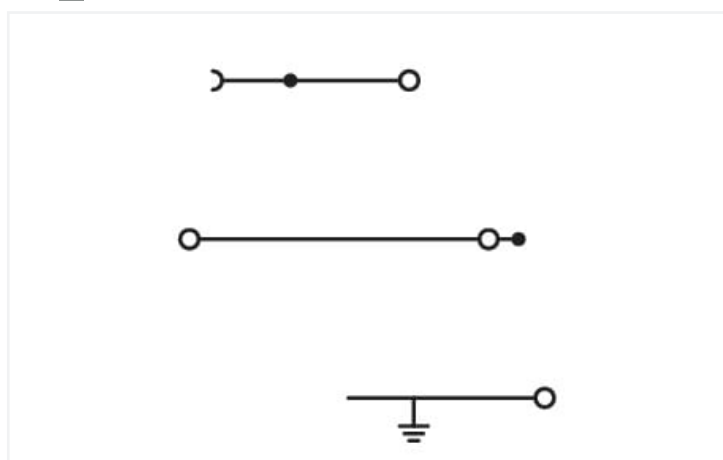# Data Sheet | Item Number: 2003-7641

Multilevel installation terminal block; with operating slots; 2.5 mm²; with N-disconnect slide link; NT/L/PE; Push-in CAGE CLAMP®; 2,50 mm²; gray

https://www.wago.com/2003-7641

Color: gray

Similar to illustration

Electrical data

Ratings per IEC/EN		Ratings per IEC/EN 2	
Ratings per	IEC/EN 60947-7-1	Ratings per 2	IEC/EN 60947-7-1
Ratings (note)	Potential – ground	Ratings (note) 2	Potential – potential
Nominal voltage (III/3)	250 V	Rated voltage (III/3) 2	400 V
Rated impulse voltage (III/3)	4 kV	Rated surge voltage (III/3) 2	6 kV
Rated current	24 A	Rated current 2	24 A
Current at conductor cross-section (max.) mm²	32 A	Current at conductor cross-section (max.) 2	32 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3		

Power loss

Power loss, per pole (potential)	0.7661 W
Rated current I_N for specified power loss	24 A
Resistance value for specified, current-dependent power loss	0.00133 Ω

Connection data

WAGO

Connection points	5
Total number of potentials	3
Number of levels	3

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm²
Solid conductor	0.25 … 4 mm² / 22 … 12 AWG
Solid conductor; push-in termination	0.75 … 4 mm² / 18 … 12 AWG
Fine-stranded conductor	0.25 … 4 mm² / 22 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 2.5 mm² / 22 … 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 … 2.5 mm² / 18 … 14 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	10 … 12 mm / 0.39 … 0.47 inches
Wiring direction	Front-entry wiring

Physical data

Width	5.2 mm / 0.205 inches
Height	96 mm / 3.78 inches
Depth from upper-edge of DIN-rail	42.3 mm / 1.665 inches

Mechanical data

Potential marking	NT/L/PE
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.246 MJ
Weight	16.7 g

Environmental requirements

Processing temperature	-35 … +85 °C
Continuous operating temperature	-60 … +105 °C

Commercial data

Product Group	22 (TOPJOB S)
eCl@ss 10.0	27-14-11-25
eCl@ss 9.0	27-14-11-25
ETIM 8.0	EC001329
ETIM 7.0	EC001329
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918925587
Customs tariff number	85369010000

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	71-113530
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7828

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2003-7641	↓

Documentation

Additional Information

Technical Section	pdf 2142.18 KB	↓

Bid Text

2003-7641	29.04.2019	xml 4.20 KB	↓
2003-7641	29.04.2019	docx 14.79 KB	↓

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 2003-7641	↓	EPLAN Data Portal 2003-7641	↓
		WSCAD Universe 2003-7641	↓
		ZUKEN Portal 2003-7641	↓

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 2003-7692
End and intermediate plate; 0.8 mm thick; orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories

Item No.: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Item No.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

Item No.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored

Item No.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

Item No.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.2.2 Ferrule

1.2.2.1 Ferrule

Item No.: 216-241
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-242
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-262
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-263
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-244
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-264
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-246
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

1.2.2.1 Ferrule

Item No.: 216-266
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

1.2.3 Installation

1.2.3.1 Cover

Item No.: 709-156
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.3.2 Cover carrier

Item No.: 709-169
Cover carrier; Type 3; gray

1.2.3.3 Mounting accessories

Item No.: 2009-304
Busbar carrier; not suitable for use as end stop; for DIN 35 rail; 1.5 mm thick; blue

Item No.: 2009-305
Busbar carrier; with end stop function and detachable separator plate; for DIN 35 rail; 7.5 mm thick; blue

1.2.4 Insulation stop

1.2.4.1 Insulation stop

Item No.: 2002-171
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

Item No.: 2002-172
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 2002-400
Continuous jumper; 2-way; insulated; light gray

Item No.: 2002-423/000-006
Continuous jumper; from 1 to 3; insulated; blue

Item No.: 2002-423
Continuous jumper; from 1 to 3; insulated; light gray

Item No.: 2002-423/000-005
Continuous jumper; from 1 to 3; insulated; red

Item No.: 2002-424/000-006
Continuous jumper; from 1 to 4; insulated; blue

Item No.: 2002-424
Continuous jumper; from 1 to 4; insulated; light gray

Item No.: 2002-424/000-005
Continuous jumper; from 1 to 4; insulated; red

Item No.: 2002-406/020-000
Delta jumper; insulated; light gray

Item No.: 2002-410/000-006
Jumper; 10-way; insulated; blue

Item No.: 2002-410
Jumper; 10-way; insulated; light gray

Item No.: 2002-410/000-005
Jumper; 10-way; insulated; red

Item No.: 2002-402/000-006
Jumper; 2-way; insulated; blue

1.2.5.1 Jumper

Item No.: 2002-402
Jumper; 2-way; insulated; light gray

Item No.: 2002-402/000-005
Jumper; 2-way; insulated; red

Item No.: 2002-403/000-006
Jumper; 3-way; insulated; blue

Item No.: 2002-403
Jumper; 3-way; insulated; light gray

Item No.: 2002-403/000-005
Jumper; 3-way; insulated; red

Item No.: 2002-404/000-006
Jumper; 4-way; insulated; blue

Item No.: 2002-404
Jumper; 4-way; insulated; light gray

Item No.: 2002-404/000-005
Jumper; 4-way; insulated; red

Item No.: 2002-405/000-006
Jumper; 5-way; insulated; blue

Item No.: 2002-405
Jumper; 5-way; insulated; light gray

Item No.: 2002-405/000-005
Jumper; 5-way; insulated; red

Item No.: 2002-406/000-006
Jumper; 6-way; insulated; blue

Item No.: 2002-406
Jumper; 6-way; insulated; light gray

Item No.: 2002-406/000-005
Jumper; 6-way; insulated; red

Item No.: 2002-407/000-006
Jumper; 7-way; insulated; blue

Item No.: 2002-407
Jumper; 7-way; insulated; light gray

Item No.: 2002-407/000-005
Jumper; 7-way; insulated; red

Item No.: 2002-408/000-006
Jumper; 8-way; insulated; blue

Item No.: 2002-408
Jumper; 8-way; insulated; light gray

Item No.: 2002-408/000-005
Jumper; 8-way; insulated; red

Item No.: 2002-409/000-006
Jumper; 9-way; insulated; blue

Item No.: 2002-409
Jumper; 9-way; insulated; light gray

Item No.: 2002-409/000-005
Jumper; 9-way; insulated; red

Item No.: 2002-440
Jumper; from 1 to 10; insulated; light gray

Item No.: 2002-433
Jumper; from 1 to 3; insulated; light gray

Item No.: 2002-434
Jumper; from 1 to 4; insulated; light gray

Item No.: 2002-435
Jumper; from 1 to 5; insulated; light gray

Item No.: 2002-436
Jumper; from 1 to 6; insulated; light gray

Item No.: 2002-437
Jumper; from 1 to 7; insulated; light gray

Item No.: 2002-438
Jumper; from 1 to 8; insulated; light gray

Item No.: 2002-439
Jumper; from 1 to 9; insulated; light gray

Item No.: 2002-480
Staggered jumper; 10-way; insulated; light gray

Item No.: 2002-481
Staggered jumper; 11-way; insulated; light gray

Item No.: 2002-482
Staggered jumper; 12-way; insulated; light gray

Item No.: 2002-473/011-000
Staggered jumper; 2-way; from 1 to 3; insulated; light gray

Item No.: 2002-472
Staggered jumper; 2-way; insulated; light gray

Item No.: 2002-473
Staggered jumper; 3-way; insulated; light gray

Item No.: 2002-475/011-000
Staggered jumper; 3-way; insulated; light gray

Item No.: 2002-474
Staggered jumper; 4-way; insulated; light gray

Item No.: 2002-475
Staggered jumper; 5-way; insulated; light gray

Item No.: 2002-476
Staggered jumper; 6-way; insulated; light gray

Item No.: 2002-477
Staggered jumper; 7-way; insulated; light gray

Item No.: 2002-478
Staggered jumper; 8-way; insulated; light gray

Item No.: 2002-479
Staggered jumper; 9-way; insulated; light gray

Item No.: 2002-477/011-000
Staggered jumper; insulated; light gray

Item No.: 2002-479/011-000
Staggered jumper; insulated; light gray

Item No.: 2002-481/011-000
Staggered jumper; insulated; light gray

Item No.: 2002-405/011-000
Star point jumper; 3-way; insulated; light gray

Item No.: 210-103
Wire commoning chain; insulated; black

Item No.: 210-123
Wire commoning chain; insulated; blue

1.2.6 Lock-out

1.2.6.1 Locking system

Item No.: 2003-7300
Lock-out; prevents reclosing of slide link;
Snap-in type; for 2003 Series; orange

1.2.7 Marking

1.2.7.1 Group marker carrier

Item No.: 2009-191
Group marker carrier; gray

Item No.: 2009-192
Group marker carrier; gray

Item No.: 2009-193
Group marker carrier; gray

1.2.7.2 Marker

Item No.: 2009-145/000-006
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-145/000-007
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-145/000-023
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-145/000-012
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-145/000-005
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 2009-145/000-024
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-145/000-002
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

Item No.: 248-501/000-006
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

Item No.: 248-501/000-007
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

Item No.: 248-501/000-023
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

Item No.: 248-501/000-017
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

Item No.: 248-501/000-012
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

Item No.: 248-501/000-005
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

Item No.: 248-501/000-024
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 248-501/000-002
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

Item No.: 793-5501/000-006
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 793-5501/000-014
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

Item No.: 793-5501/000-007
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 793-5501/000-023
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 793-5501/000-017
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 793-5501/000-012
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 793-5501/000-005
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 793-5501/000-024
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 793-5501/000-002
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Version 16.04.2023

1.2.7.2 Marker

Item No.: 2009-115/000-005
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.7.3 Marker carrier

Item No.: 2009-198
Adaptor; gray

1.2.7.4 Marking strip

Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.8 N-busbar

1.2.8.1 Cover

Item No.: 777-303
N-busbar cover; 1000 mm long; transparent

1.2.8.2 Mounting accessories

Item No.: 210-133
Busbar; tin-plated; 1000 mm long; Cu 10 mm x 3 mm; white

1.2.9 Push-in type wire jumper

1.2.9.1 Jumper

Item No.: 2009-414
Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black

Item No.: 2009-414/000-005
Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black

Item No.: 2009-416
Push-in type wire jumper; 1.5 mm²; insulated; 250 mm long; black

Item No.: 2009-414/000-006
Push-in type wire jumper; insulated; 110 mm long; black

Item No.: 2009-412
Push-in type wire jumper; insulated; 60 mm long; black

1.2.10 Terminal blocks

![WAGO logo]

1.2.10.1 Busbar terminal block

Item No.: 210-281
Connector; blue

Item No.: 209-105
Connector; silver-colored

1.2.11 Test and measurement

1.2.11.1 Testing accessories

Item No.: 2009-174
Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

Item No.: 2009-182
Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.2.12 Tool

1.2.12.1 Operating tool

Item No.: 210-658
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 2009-309
Operating tool; Blades: 3.5 x 0.5 mm and 2.5 x 0.4 mm; for TOPJOB®S installation terminal blocks

Item No.: 2009-310
Operating tool; Blades: 3.5 x 0.5 mm and 5.5 x 0.8 mm; for TOPJOB®S installation terminal blocks; green
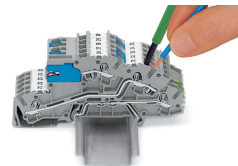
Installation Notes

### Conductor termination

All conductor types at a glance
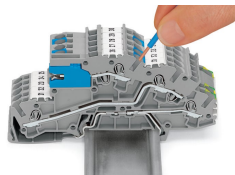
Inserting a conductor via push-in termination.
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

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.
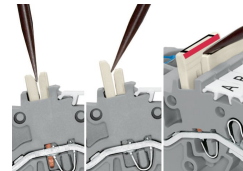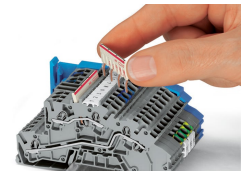
Commoning
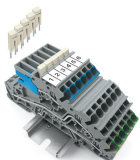
Adjacent Jumpers for Continuous Commoning (2002-400)

Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.

Removing a staggered jumper:
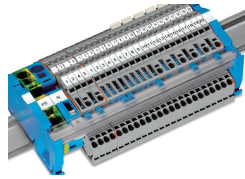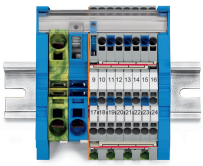Insert the operating tool between the staggered jumpers, then lift up the jumper.

Orient the staggered jumpers' red stripes on the inside.
Insert the staggered jumper and push down until it hits the backstop.
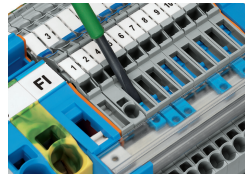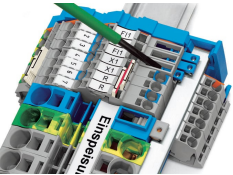
Testing

Busbar

Mounting busbars on busbar carriers: Insert busbar ends onto large busbar carriers (2009-305) or onto supply terminal blocks with an integrated busbar carrier.

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.

Tool-operated N-disconnect slide link

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

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: www.wago.com