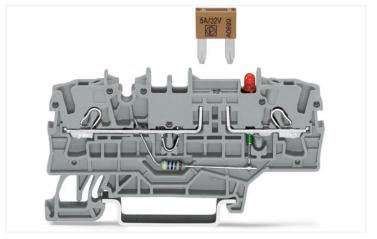
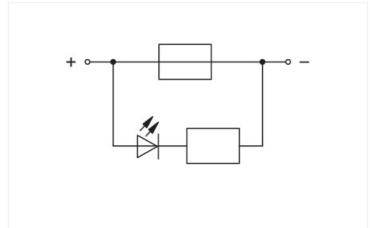
2-conductor fuse terminal block; for mini-automotive blade-style fuses; with test option; with blown fuse indication by LED; 12 V; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm $^2$ ; Push-in CAGE CLAMP $^0$ ; 2,50 mm $^2$ ; gray



https://www.wago.com/2002-1981/1000-449





Color: gray

Similar to illustration

2002-1981/1000-449

Electrical data			
Ratings per	IEC/	EN 60947-	7-3
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	10 A	-	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	12 V	12 V	-
Rated current	10 A	10 A	-

Ratings per IEC/EN 2	
Ratings (note) 2	Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!
	<ul><li>10 A (individual arrangement)</li><li>5 A (block arrangement)</li></ul>

General information	
Fuse receptacle	pluggable
Fuse type	Mini flat plug-in fuse; 10.9 x 3.6 x 16.3 mm

Connection data		
Connection points	2	
Total number of potentials	2	
Number of levels	1	
Number of jumper slots	2	

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

https://www.wago.com/2002-1981/1000-449



#### Physical data

Width 5.2 mm / 0.205 inches Height 72.9 mm / 2.87 inches 32.9 mm / 1.295 inches Depth from upper-edge of DIN-rail

#### Mechanical data

Mounting type DIN-35 rail

Marking level Center/side marking

#### Material data

Note (material data)

<a href="https://www.wago.com/us/material-specifications">Information on material

specifications can be found here</a>

Color gray

Material group

Insulation material Polyamide (PA66)

Flammability class per UL94 Fire load 0.177 MJ Weight 8.1 g

#### **Environmental requirements**

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

Commercial data

**Product Group** 22 (TOPJOBS) eCl@ss 10.0 27-14-11-16 eCl@ss 9.0 27-14-11-16 **ETIM 8.0** EC000899 ETIM 7.0 EC000899 PU (SPU) 50 pcs Packaging type Box Country of origin CN 4050821089360 Customs tariff number 85369095000

#### **Environmental Product Compliance**

RoHS Compliance Status Compliant, With Exemption

**RoHS Exemption** 7(c)-I

## Approvals / Certificates

#### General approvals





Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7941
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-124163

#### General approvals

UL 1059 E45172 **Underwriters Laboratories** 

Inc.

https://www.wago.com/2002-1981/1000-449



## Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Railway Ready
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

## Approvals for marine applications





Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

# Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 2002-1981/1000-449

Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2240.62 KB	$\perp$	2002-1981/1000-449	23.04.2019	xml 4.53 KB	$\underline{\downarrow}$
			2002-1981/1000-449	23.04.2019	docx 16.07 KB	$\underline{\downarrow}$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2002-1981/1000-449	EPLAN Data Portal 2002-1981/1000-449
	WSCAD Universe 2002-1981/1000-449
	ZUKEN Portal 2002-1981/1000-449

https://www.wago.com/2002-1981/1000-449



#### 1 Compatible Products

#### 1.1 Required Accessories

#### 1.1.1 End plate

#### 1.1.1.1 End plate





Item No.: 2002-1991

End and intermediate plate; 1 mm thick; gray

Item No.: 2002-1992

End and intermediate plate; 1 mm thick; orange

#### 1.2 Optional Accessories

#### 1.2.1 DIN-rail

#### 1.2.1.1 Mounting accessories



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.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

#### Item No.: 210-197

Steel carrier rail;  $35 \times 15$  mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



#### Item No.: 210-506

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; 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.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; 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

#### Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

#### 1.2.2 Ferrule

#### 1.2.2.1 Ferrule

#### Item No.: 216-241

Item No.: 216-263

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



Ferrule; Sleeve for 1 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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



#### 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

https://www.wago.com/2002-1981/1000-449



#### 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; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

#### 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 mm<sup>2</sup>; 5 pieces/ strip; dark gray

#### 1.2.5 Jumper

#### 1.2.5.1 Jumper

Item No.: 2002-400

gray









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

Item No.: 2002-423

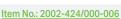
Continuous jumper; from 1 to 3; insulated; light gray

Item No.: 2002-423/000-005

Continuous jumper; from 1 to 3; insulated; red



Continuous jumper; 2-way; insulated; light



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



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

Item No.: 2002-404/000-006 Jumper; 3-way; insulated; red Jumper; 4-way; insulated; blue



Item No.: 2002-404

Item No.: 2002-404/000-005



Jumper; 4-way; insulated; light gray Jumper; 4-way; insulated; red









Jumper; 5-way; insulated; light gray



Item No.: 2002-406/000-006

Item No.: 2002-405/000-005 Jumper; 5-way; insulated; red Jumper; 6-way; insulated; blue

https://www.wago.com/2002-1981/1000-449



#### 1.2.5.1 Jumper







Item No.: 2002-407

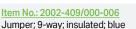
Item No.: 2002-406 Item No.: 2002-406/000-005 Item No.: 2002-407/000-006 Jumper; 6-way; insulated; light gray Jumper; 6-way; insulated; red Jumper; 7-way; insulated; blue Jumper; 7-way; insulated; light gray





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



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.: 2002-409

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

Item No.: 2002-481

Item No.: 2002-473

Item No.: 2002-476

gray

gray

gray

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

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gray



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

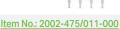
Item No.: 2002-473/011-000

Staggered jumper; 2-way; from 1 to 3; insulated; light gray

Item No.: 2002-472

Staggered jumper; 2-way; insulated; light gray

Staggered jumper; 11-way; insulated; light



Item No.: 2002-477

gray

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

Staggered jumper; 3-way; insulated; light



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

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

Staggered jumper; 6-way; insulated; light



Staggered jumper; 7-way; insulated; light

Item No.: 2002-481/011-000 Item No.: 2002-405/011-000 Staggered jumper; insulated; light gray Star point jumper; 3-way; insulated; light gray

Staggered jumper; insulated; light gray



Staggered jumper; insulated; light gray

Item No.: 2002-479/011-000



Item No.: 210-103

Item No.: 2002-477/011-000

Wire commoning chain; insulated; black

Item No.: 210-123

Wire commoning chain; insulated; blue

1.2.6 Marking

1.2.6.1 Group marker carrier







Item No.: 2009-191

Group marker carrier; grav

Item No.: 2009-192

Group marker carrier; grav

Item No.: 2009-193

Group marker carrier; grav

https://www.wago.com/2002-1981/1000-449

#### 1.2.6.2 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

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

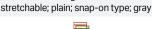
#### Item No.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; vellow



#### Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 248-501/000-005

Item No.: 248-501/000-007

Mini-WSB marking card; as card; not

Mini-WSB marking card; as card; not

#### Item No.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

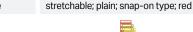
#### Item No.: 248-501/000-017 Mini-WSB marking card; as card; not stret-

chable; 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.: 248-501/000-024

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;



# 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

snap-on type; orange



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; vellow

#### 1.2.6.3 Marker carrier



Item No.: 2002-121 Adaptor; gray

Item No.: 2002-161

Adaptor; gray

Item No.: 2009-198 Adaptor; gray

https://www.wago.com/2002-1981/1000-449



#### 1.2.6.4 Marking strip



#### Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

#### 1.2.7 Protective warning marker

#### 1.2.7.1 Cover



#### Item No.: 2002-115

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

#### 1.2.8 Push-in type wire jumper

#### 1.2.8.1 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 mm<sup>2</sup>; 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

#### 1.2.9 Screwless end stop

#### 1.2.9.1 Mounting accessories





#### Item No.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

#### Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

#### 1.2.10 Test and measurement

## 1.2.10.1 Testing accessories



Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 2,50 mm²; gray



Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 2,50 mm²; gray

#### Item No.: 2002-552

Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 2,50 mm²; gray

#### Item No.: 2002-553

Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 2,50 mm²; gray

#### Item No.: 2002-554

Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 2,50 mm²; gray

#### Item No.: 2002-555

Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 2,50 mm²; gray

#### Item No.: 2002-556

Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 2,50 mm²; grav

#### Item No.: 2002-557

Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 2,50 mm²; gray

https://www.wago.com/2002-1981/1000-449



#### 1.2.10.1 Testing accessories

#### Item No.: 2002-558

Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 2,50 mm²; gray



Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 2,50 mm²; grav

#### Item No.: 2002-549

Spacer module; modular; e.g., for bridging commoned terminal blocks; gray

#### 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 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

#### Item No.: 2002-649

TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray

#### Item No.: 2002-611

TOPJOB®S L-type test plug module; modular; 1-pole; 2,50 mm²; gray

#### 1.2.11 Tool

#### 1.2.11.1 Operating tool



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

#### **Installation Notes**

#### Conductor termination





Push-in termination of solid and ferruled

conductors



# Inserting a conductor via push-in termi-

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.

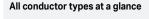


## Inserting a conductor via operating tool:

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.

#### Advantage:

To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.





Conductor termination – insulation stop





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 specifica-

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). Concerning product safety, fuse cartridges must generally be tested under both normal and faulty operating conditions within your application.

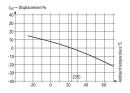


#### **Application Notes on Terminal Blocks** for Glass Cartridge Fuses Diagram: "Individual Arrangement"



#### **Application Notes on Terminal Blocks** for Glass Cartridge Fuses

Diagram: "Block Arrangement"



#### **Application Notes on Terminal Blocks** for Glass Cartridge Fuses

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).



Concerning product safety, fuse cartridges must generally be tested under both normal and faulty operating conditions within your application.

https://www.wago.com/2002-1981/1000-449



## Marking





Snapping WMB Inline markers into marker slots.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$