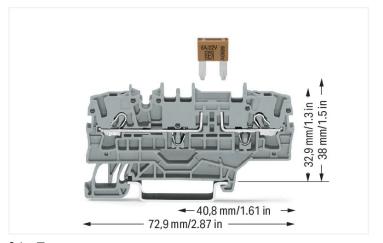
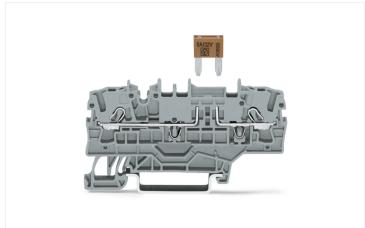
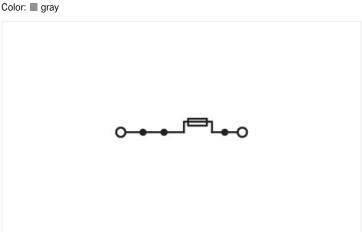
2-conductor fuse terminal block; for mini-automotive blade-style fuses; with test option; with additional jumper position; without blown fuse indication; 2.5 mm<sup>2</sup>; Push-in CAGE CLAMP®; gray



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







Similar to illustration

Fuse terminal block, 2002 Series, operating tool

Connect conductors quickly and safely with this fuse terminal block (item number 2002-1981). Conductors should only be connected to this fuse terminal block if their strip length is between 10 mm and 12 mm. Featuring conductor terminals along with Push-in CAGE CLAMP®, this connector delivers reliable performance. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Depending on the conductor type, this fuse terminal block is ideal for conductor cross sections ranging from 0.25 mm² to 4 mm². It has one level. You can connect two potentials using the two clamping points. The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails..

Electrical data					
Ratings per	IEC/	EN 60947-7	7-3	Ratings per IEC/EN - N	Notes
Overvoltage category	III	III	II	Ratings (note)	Electrical ratings are given by the fuse.
Pollution degree	3	2	2		
Nominal voltage	400 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	10 A	-	-		

# Data Sheet | Item Number: 2002-1981 https://www.wago.com/2002-1981



Ratings per IEC/EN 2	
Ratings (note)	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>

Approvals per	UL 1059		
Use group	В	С	D
Rated voltage	250 V	250 V	-
Rated current	10 A	10 A	-

Ratings per CSA	
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	6.3 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	6.3 A

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

Connection data			
Clamping units	2	Connection 1	
Total number of potentials	2	Connection technology	Push-in CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
Number of jumper slots	3	Connectable conductor materials	Copper
		Nominal cross-section	2.5 mm <sup>2</sup>
		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	72.9 mm / 2.87 inches
Depth from upper-edge of DIN-rail	32.9 mm / 1.295 inches

Mechanical data	
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data	
Note (material data)	Information on material specifications can be found here
	information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.17 MJ
Weight	8 g

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



	l reauireme	

-35 ... +85 °C Processing temperature Continuous operating temperature -60 ... +105 °C **Environmental Testing (Environmental Conditions)** 

Test specification Railway applications -Rolling stock -Electronic equipment DIN EN 50155 (VDE 0115-200):2022-06

Test procedure Railway applications -Rolling stock equipment -Shock and vibration tests DIN EN 61373 (VDE 0115-0106):2011-04

Spectrum/Installation location Function test with noise-like vibration Test passed according to Section 8 of

Service life test, Category 1, Class A/B

the standard

 $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ Frequency

0.101g (highest test level used for all Acceleration

axes)

Test duration per axis 10 min.

Test directions X. Y and Z axes

Monitoring for contact faults/interruptions

Passed

Voltage drop measurement before and after each axis

Passed

Simulated service life test through incre-

Test passed according to Section 9 of

ased levels of noise-like vibration

the standard  $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ 

Frequency

0.572g (highest test level used for all

Test duration per axis

Extended test scope: Monitoring for con-

Passed

X, Y and Z axes

tact faults/interruptions

Extended test scope: Voltage drop measurement before and after each axis

Passed

Shock test

Acceleration

Test directions

Test passed according to Section 10 of

5g (highest test level used for all axes)

the standard

Shock form

Half sine

Acceleration

30 ms

Shock duration

3 pos. und 3 neg.

Number of shocks per axis Test directions

X, Y and Z axes

Passed

Extended test scope: Monitoring for contact faults/interruptions

Extended test scope: Voltage drop measurement before and after each axis

Passed

Vibration and shock stress for rolling stock equipment

Passed

## Commercial data

PU (SPU) Packaging type Country of origin

Customs tariff number

**Product Group** 22 (TOPJOBS) 50 pcs Box CN 4055143302791 85369095000

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Product classification	
UNSPSC	39121410
eCl@ss 10.0	27-14-11-16
eCl@ss 9.0	27-14-11-16
ETIM 9.0	EC000899
ETIM 8.0	EC000899
ECCN	NO US CLASSIFICATION

### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

### Approvals / Certificates

### General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-8054
CSA CSA Group	C22.2 No. 158	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-124163
UL Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations



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

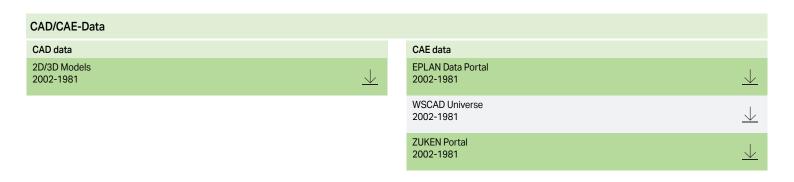
**Environmental Product** Compliance 2002-1981



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



# Documentation Bid Text 2002-1981 xml 4.46 KB ↓ 2002-1981 docx 15.91 KB ↓





## 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

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### 1.2.2 Ferrule

### 1.2.2.1 Ferrule

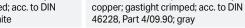


Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insu-

lated; electro-tin plated; electrolytic cop-

per; gastight crimped; acc. to DIN 46228,



sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90: black

Item No.: 216-242



Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 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 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.: 216-263 Item No.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-

sulated; electro-tin plated; electrolytic

### Item No.: 216-264

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.: 216-246

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

### Item No.: 216-266

Part 4/09.90: red

Ferrule: Sleeve for 2.5 mm<sup>2</sup> / 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; 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 mm<sup>2</sup>; 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

Continuous jumper; 2-way; insulated; light

Item No.: 2002-413

Continuous jumper; 3-way; insulated; light gray

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uu

Item No.: 2002-415

Continuous jumper; 5-way; insulated; light gray

Item No.: 2002-423/000-006

Continuous jumper; from 1 to 3; insulated;





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;

Item No.: 2002-424/000-006

Continuous jumper; from 1 to 4; insulated;

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;

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 Jumper; 2-way; insulated; blue

Item No.: 2002-402/000-006

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; 4-way; insulated; blue





Jumper; 3-way; insulated; red

Item No.: 2002-404

Jumper; 4-way; insulated; light gray

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

Jumper; 5-way; insulated; blue

Item No.: 2002-405/000-006

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

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

Jumper; 7-way; insulated; red

Item No.: 2002-408/000-006

Jumper; 8-way; insulated; blue

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



Item No.: 2002-409/000-005 Item No.: 2002-440 Jumper; 9-way; insulated; red Jumper; from 1 to 10; insulated; light gray

Item No.: 2002-433

Jumper; 9-way; insulated; light gray

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



Item No.: 2002-439

Jumper; from 1 to 9; insulated; light gray

Item No.: 2002-482

gray

Jumper; from 1 to 8; insulated; light gray



Item No.: 2002-480

light gray

gray

Item No.: 2002-472

Item No.: 2002-481

Staggered jumper; 11-way; insulated; light gray

Staggered jumper; 12-way; insulated; light

Item No.: 2002-473/011-000

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

Staggered jumper; 2-way; insulated; light

Staggered jumper; 10-way; insulated;

Item No.: 2002-473

Staggered jumper; 3-way; insulated; light gray

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



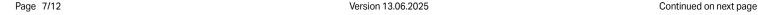
Item No.: 2002-474

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



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### 1.2.5.1 Jumper





### 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

Item No.: 210-103

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; gray

Item No.: 2009-192

Group marker carrier; gray

Item No.: 2009-193

Group marker carrier; gray

### 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



### Item No.: 2009-145

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



Mini-WSB marking card; as card; not

### 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

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

Item No.: 793-5501/000-006

5.2 mm; plain; snap-on type; blue

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



WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -

## 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



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; light green

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

### Item No.: 793-5501/000-014

5.2 mm; plain; snap-on type; brown



block width 5 - 17.5 mm; stretchable 5 -



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

5.2 mm; plain; snap-on type; gray

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.: 793-5501/000-023 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; white

## Item No.: 793-5501/000-002

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; 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.: 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

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### 1.2.6.2 Marker



### 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

4





## 4

### Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain;

### 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

### 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

snap-on type; white

## 1.2.6.3 Marker carrier







Item No.: 2002-121 Adaptor; gray

Item No.: 2002-161 Adaptor; gray

Item No.: 2009-198 Adaptor; gray

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

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### 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 DIN-rail  $35 \times 15$  and  $35 \times 7.5$ ; gray

### 1.2.10 Test and measurement

### 1.2.10.1 Testing accessories



Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; gray



Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; gray



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

### Item No.: 2002-553

Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; gray

Item No.: 2002-554

Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; gray

Item No.: 2002-555

Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; gray

Item No.: 2002-556

Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; gray

Item No.: 2002-557

Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; gray

Item No.: 2002-558

Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; gray

Item No.: 2002-559

Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; gray

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 mm²; 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; gray

### 1.2.11 Tool

### 1.2.11.1 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

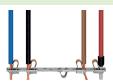
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

### **Installation Notes**

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

# W/AGO

### Conductor termination



All conductor types at a glance



Push-in termination of solid and ferruled conductors



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.

### 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

### Commoning



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



# Removing a push-in type jumper bar: Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper. Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.



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.

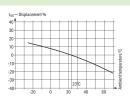
Nominal current ratings for fuse cartridges are defined differently in international standards. This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C). Concerning product safety, fuse cartridges must generally be tested under both normal and faulty operating conditions within your application.

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### 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.

### Marking





Snapping WMB Inline markers into marker slots.

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