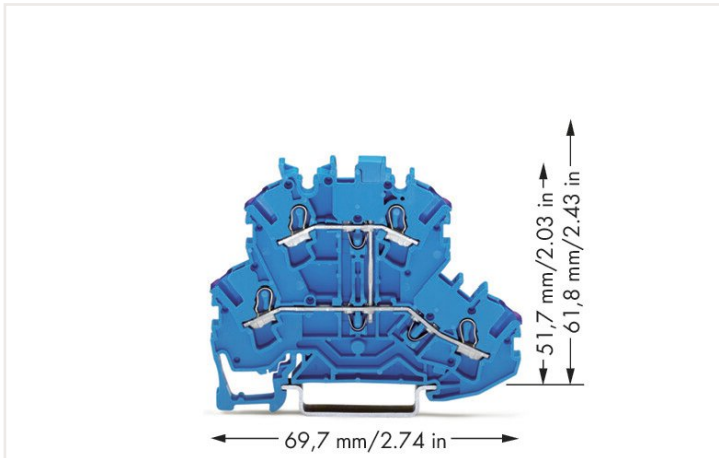


## Data sheet | Item number: 2002-2209

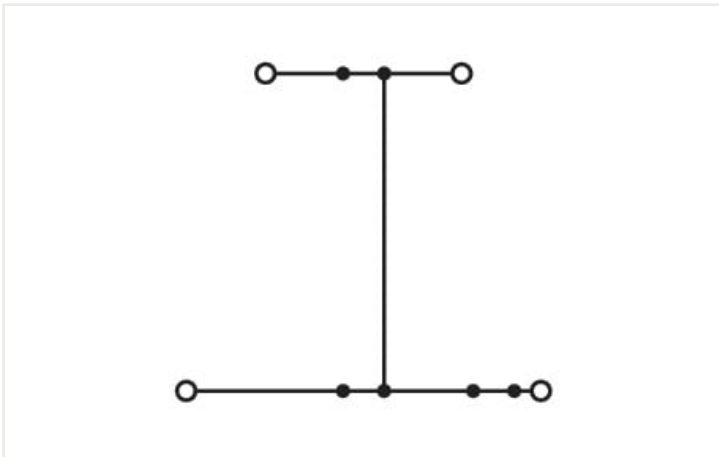
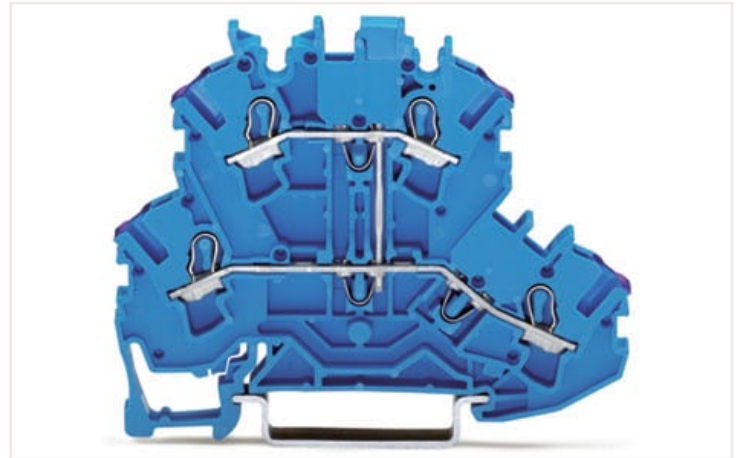
Double-deck terminal block; 4-conductor through terminal block; N; without marker carrier; for Ex e II and Ex i applications; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; Push-in CAGE CLAMP®; 2,50 mm<sup>2</sup>; blue



<https://www.wago.com/2002-2209>



Color: ■ blue



### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	24 A
Rated current 2	28 A
Legend (ratings)	(III / 3) Δ Overvoltage category III / Pollution degree 3

#### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	20 A
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	20 A
Rated voltage UL (Use Group D)	600 V
Rated current UL (Use Group D)	5 A

#### Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	20 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	20 A

#### Ex information

Reference hazardous areas	See Downloads – Documentation – Additional Information: Technical Section; Technical explanations
Ratings per	ATEX: PTB 03 ATEX 1162 U / IECEx: PTB 03.0004U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	440 V
Rated current (Ex e II)	20 A
Rated current (Ex e II) with jumper	18 A

## Connection data

Total number of connection points	4
Total number of potentials	1
Number of levels	2
Number of jumper slots	3

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm <sup>2</sup>
Solid conductor	0.25 ... 4 mm <sup>2</sup> / 22 ... 12 AWG
Solid conductor; push-in termination	0.75 ... 4 mm <sup>2</sup> / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm <sup>2</sup> / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm <sup>2</sup> / 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 inch
Wiring direction	Front-entry wiring

## Physical data

Width	5.2 mm / 0.205 inch
Height	69.7 mm / 2.744 inch
Depth from upper-edge of DIN-rail	51.7 mm / 2.035 inch

## Mechanical data

Potential marking	N
Mounting type	DIN-35 rail
Marking level	Center/side marking

## Material data

Note (material data)	<a href="#">Information on material data can be found here</a>
Color	blue
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.209 MJ
Weight	10.7 g

## Commercial data

Product Group	22 (TOPJOB S)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 7.0	EC000897
ETIM 6.0	EC000897
PU (SPU)	50 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4044918691116
Customs tariff number VKOrg Germany	8536901000

## Approvals and certificates

### Ex-Approvals



Approval	Standard	Certificate name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 03 ATEX 1162 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
CCCEX CQST/CNEx	CNCA-C23-01	2020312313000238
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	RU C-DE.AM02. B.00127/19 (Ex e IIC Gb U)
IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)

### Country specific Approvals



Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 60947	71-120369
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7892
CCA DEKRA Certification B.V.	C22.2 No. 158	1536069

### Ship Approvals



Approval	Standard	Certificate name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	38586/A0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance 2002-2209



## Documentation

### Additional Information

Technical Section

pdf  
2142.18 KB



### Bid Text

2002-2209

23.04.2019

xml  
4.33 KB







2002-2209

23.04.2019

docx  
15.26 KB



CAD/CAE-Data	
<b>CAD data</b>	<b>CAE data</b>
<a href="#">2D/3D Models 2002-2209</a> 	<a href="#">EPLAN Data Portal 2002-2209</a> 
	<a href="#">WSCAD Universe 2002-2209</a> 
	<a href="#">ZUKEN Portal 2002-2209</a> 

## 1 Compatible products

### 1.1 Required accessories

#### 1.1.1 End plate

##### 1.1.1.1 End plate



[Item no.: 2002-2291](#)  
End and intermediate plate; 0.8 mm thick; gray

[Item no.: 2002-2292](#)  
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.: 210-508](#)  
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 x 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 End plate

### 1.2.2.1 End plate



**Item no.: 209-192**

Separator for Ex e/Ex i applications; 3 mm thick; 125.5 mm wide; orange

**Item no.: 2002-2295**

Separator plate; oversized upper deck; snap-fit type; 2 mm thick; gray

**Item no.: 2002-2296**

Separator plate; oversized upper deck; snap-fit type; 2 mm thick; orange

## 1.2.3 Ferrule

### 1.2.3.1 Ferrule



**Item no.: 216-241**

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

**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.: 216-262**

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**

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 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**

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

## 1.2.4 Installation

### 1.2.4.1 Mounting accessories



**Item no.: 709-169**

Cover carrier; Type 3; gray

**Item no.: 709-156**

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

## 1.2.5 Insulation stop

### 1.2.5.1 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**

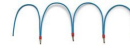
Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray

1.2.6 Jumper

1.2.6.1 Jumper

 <b>Item no.: 2002-400</b> Continuous jumper; 2-way; insulated; light gray	 <b>Item no.: 2002-423/000-006</b> Continuous jumper; from 1 to 3; insulated; blue	 <b>Item no.: 2002-423</b> Continuous jumper; from 1 to 3; insulated; light gray	 <b>Item no.: 2002-423/000-005</b> Continuous jumper; from 1 to 3; insulated; red
 <b>Item no.: 2002-406/020-000</b> Delta jumper; insulated; light gray	 <b>Item no.: 2002-410/000-006</b> Jumper; 10-way; insulated; blue	 <b>Item no.: 2002-410</b> Jumper; 10-way; insulated; light gray	 <b>Item no.: 2002-410/000-005</b> Jumper; 10-way; insulated; red
 <b>Item no.: 2002-402/000-006</b> Jumper; 2-way; insulated; blue	 <b>Item no.: 2002-402</b> Jumper; 2-way; insulated; light gray	 <b>Item no.: 2002-402/000-005</b> Jumper; 2-way; insulated; red	 <b>Item no.: 2002-403/000-006</b> Jumper; 3-way; insulated; blue
 <b>Item no.: 2002-403</b> Jumper; 3-way; insulated; light gray	 <b>Item no.: 2002-403/000-005</b> Jumper; 3-way; insulated; red	 <b>Item no.: 2002-404/000-006</b> Jumper; 4-way; insulated; blue	 <b>Item no.: 2002-404</b> Jumper; 4-way; insulated; light gray
 <b>Item no.: 2002-404/000-005</b> Jumper; 4-way; insulated; red	 <b>Item no.: 2002-405/000-006</b> Jumper; 5-way; insulated; blue	 <b>Item no.: 2002-405</b> Jumper; 5-way; insulated; light gray	 <b>Item no.: 2002-405/000-005</b> Jumper; 5-way; insulated; red
 <b>Item no.: 2002-406/000-006</b> Jumper; 6-way; insulated; blue	 <b>Item no.: 2002-406</b> Jumper; 6-way; insulated; light gray	 <b>Item no.: 2002-406/000-005</b> Jumper; 6-way; insulated; red	 <b>Item no.: 2002-407/000-006</b> Jumper; 7-way; insulated; blue
 <b>Item no.: 2002-407</b> Jumper; 7-way; insulated; light gray	 <b>Item no.: 2002-407/000-005</b> Jumper; 7-way; insulated; red	 <b>Item no.: 2002-408/000-006</b> Jumper; 8-way; insulated; blue	 <b>Item no.: 2002-408</b> Jumper; 8-way; insulated; light gray
 <b>Item no.: 2002-408/000-005</b> Jumper; 8-way; insulated; red	 <b>Item no.: 2002-409/000-006</b> Jumper; 9-way; insulated; blue	 <b>Item no.: 2002-409</b> Jumper; 9-way; insulated; light gray	 <b>Item no.: 2002-409/000-005</b> Jumper; 9-way; insulated; red
 <b>Item no.: 2002-440</b> Jumper; from 1 to 10; insulated; light gray	 <b>Item no.: 2002-433</b> Jumper; from 1 to 3; insulated; light gray	 <b>Item no.: 2002-434</b> Jumper; from 1 to 4; insulated; light gray	 <b>Item no.: 2002-435</b> Jumper; from 1 to 5; insulated; light gray
 <b>Item no.: 2002-436</b> Jumper; from 1 to 6; insulated; light gray	 <b>Item no.: 2002-437</b> Jumper; from 1 to 7; insulated; light gray	 <b>Item no.: 2002-438</b> Jumper; from 1 to 8; insulated; light gray	 <b>Item no.: 2002-439</b> Jumper; from 1 to 9; insulated; light gray
 <b>Item no.: 2002-480</b> Staggered jumper; 10-way; insulated; light gray	 <b>Item no.: 2002-481</b> Staggered jumper; 11-way; insulated; light gray	 <b>Item no.: 2002-482</b> Staggered jumper; 12-way; insulated; light gray	 <b>Item no.: 2002-473/011-000</b> Staggered jumper; 2-way; from 1 to 3; insulated; light gray
 <b>Item no.: 2002-472</b> Staggered jumper; 2-way; insulated; light gray	 <b>Item no.: 2002-473</b> Staggered jumper; 3-way; insulated; light gray	 <b>Item no.: 2002-475/011-000</b> Staggered jumper; 3-way; insulated; light gray	 <b>Item no.: 2002-474</b> Staggered jumper; 4-way; insulated; light gray
 <b>Item no.: 2002-475</b> Staggered jumper; 5-way; insulated; light gray	 <b>Item no.: 2002-476</b> Staggered jumper; 6-way; insulated; light gray	 <b>Item no.: 2002-477</b> Staggered jumper; 7-way; insulated; light gray	 <b>Item no.: 2002-478</b> Staggered jumper; 8-way; insulated; light gray
 <b>Item no.: 2002-479</b> Staggered jumper; 9-way; insulated; light gray	 <b>Item no.: 2002-477/011-000</b> Staggered jumper; insulated; light gray	 <b>Item no.: 2002-479/011-000</b> Staggered jumper; insulated; light gray	 <b>Item no.: 2002-481/011-000</b> Staggered jumper; insulated; light gray

1.2.6.1 Jumper



**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

1.2.7 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

 <b>Item no.: 2009-145/000-006</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	 <b>Item no.: 2009-145/000-007</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	 <b>Item no.: 2009-145/000-023</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	 <b>Item no.: 2009-145/000-012</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
 <b>Item no.: 2009-145/000-005</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	 <b>Item no.: 2009-145/000-024</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	 <b>Item no.: 2009-145</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	 <b>Item no.: 2009-145/000-002</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
 <b>Item no.: 248-501/000-006</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	 <b>Item no.: 248-501/000-007</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	 <b>Item no.: 248-501/000-023</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	 <b>Item no.: 248-501/000-017</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green
 <b>Item no.: 248-501/000-012</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	 <b>Item no.: 248-501/000-005</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	 <b>Item no.: 248-501/000-024</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	 <b>Item no.: 248-501</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white
 <b>Item no.: 248-501/000-002</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	 <b>Item no.: 793-5501/000-006</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue	 <b>Item no.: 793-5501/000-014</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown	 <b>Item no.: 793-5501/000-007</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray
 <b>Item no.: 793-5501/000-023</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green	 <b>Item no.: 793-5501/000-017</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green	 <b>Item no.: 793-5501/000-012</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange	 <b>Item no.: 793-5501/000-005</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red
 <b>Item no.: 793-5501/000-024</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet	 <b>Item no.: 793-5501</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	 <b>Item no.: 793-5501/000-002</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	 <b>Item no.: 793-501/000-006</b> WMB marking card; as card; not stretchable; plain; snap-on type; blue
 <b>Item no.: 793-501/000-007</b> WMB marking card; as card; not stretchable; plain; snap-on type; gray	 <b>Item no.: 793-501/000-023</b> WMB marking card; as card; not stretchable; plain; snap-on type; green	 <b>Item no.: 793-501/000-017</b> WMB marking card; as card; not stretchable; plain; snap-on type; light green	 <b>Item no.: 793-501/000-012</b> WMB marking card; as card; not stretchable; plain; snap-on type; orange

### 1.2.7.2 Marker



**Item no.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red



**Item no.: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type; violet



**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white



**Item no.: 793-501/000-002**

WMB marking card; as card; not stretchable; 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



**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.: 2002-121**

Adaptor; gray



**Item no.: 2002-161**

Adaptor; gray



**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 Protective warning marker

#### 1.2.8.1 Cover



**Item no.: 2002-115**

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



## 1.2.9 Push-in type wire jumper

### 1.2.9.1 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

## 1.2.10 Test and measurement

### 1.2.10.1 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.: 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 mm<sup>2</sup>; 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

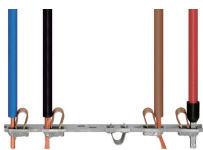


**Item no.: 210-720**

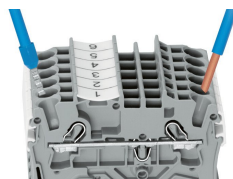
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation notes

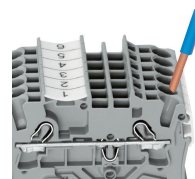
### Conductor termination



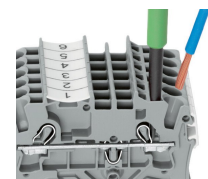
All conductor types at a glance



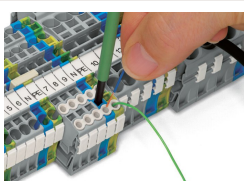
Push-in termination of solid and ferruled conductors



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.

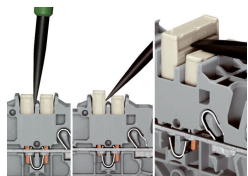


Inserting a conductor via operating tool:  
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.  
Advantage:  
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

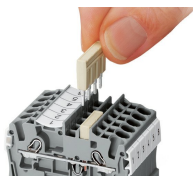


Conductor termination – insulation stop

## Commoning

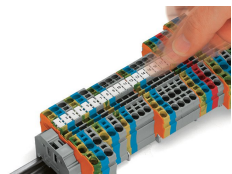


Removing a push-in type jumper bar: Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper. Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

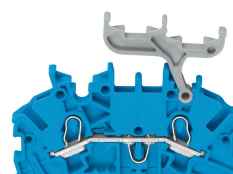
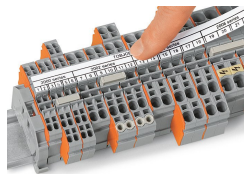


Insert push-in type jumper bar and push down until it hits backstop.

## Marking



Snapping WMB Inline markers into marker slots.



Double-deck terminal blocks  
A double-deck marker carrier (2002-121) can be retrofitted to double-deck terminal blocks without a marker carrier.