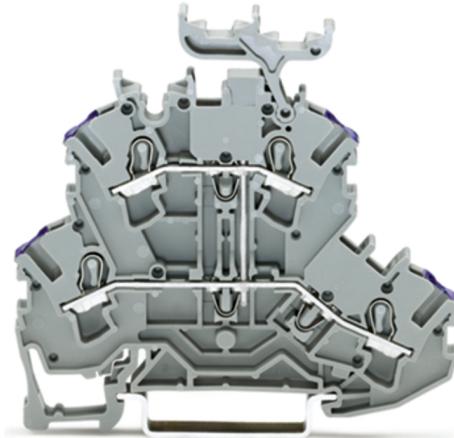
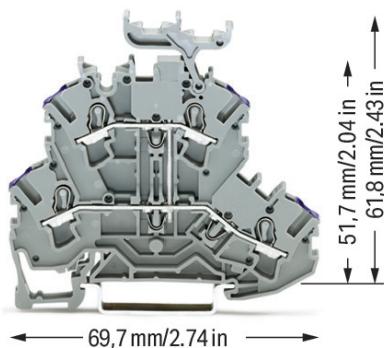
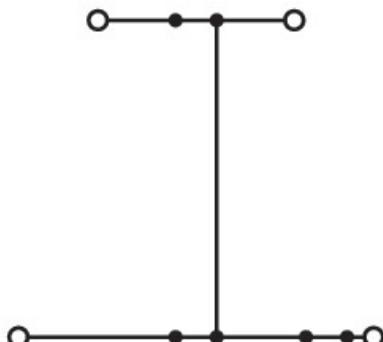


Double-deck terminal block; 4-conductor through terminal block; L; with marker carrier; suitable for Ex e II applications; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP®; 2,50 mm²; gray

<https://www.wago.com/2002-2238>



Color: ■ gray



Similar to illustration

Double-deck terminal block, 2002 Series, Push-in CAGE CLAMP®

Our double-deck terminal block (item number 2002-2238) simplifies electrical installations. The double-deck terminal block also serves as a through terminal block. Strip lengths must be between 10 mm and 12 mm when connecting conductors to this double-deck terminal block. This product incorporates conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing to use any tools—all thanks to its pluggable design. This double-deck terminal block is suitable for conductor cross sections ranging from 0.25 mm² to 4 mm². It features two levels and four clamping points for connecting a single potential. The gray housing is made of polyamide (PA66) for insulation. These through rail-mount terminal blocks are mounted using DIN-35 rails.. This product is designed for specific Ex applications (please refer to the product datasheet).

Electrical data

IEC/EN 60947-7-1			UL 1059		
Ratings per	III	III	II	Use group	B C D
Overvoltage category				Rated voltage	300 V 300 V 600 V
Pollution degree	3	2	2	Rated current	20 A 20 A 5 A
Nominal voltage	500 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	24 A	-	-		
Current at conductor cross-section (max.) mm ²	28 A	-	-		

Approvals per	CSA 22.2 No 158			Ex information
Use group	B	C	D	Reference to hazardous areas See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
Rated voltage	300 V	300 V	-	Ratings per ATEX: PTB 03 ATEX 1162 U / IECEx: PTB 03.0004U (Ex eb IIC Gb)
Rated current	20 A	20 A	-	Rated voltage EN (Ex e II) 440 V Rated current (Ex e II) 20 A Rated current (Ex e II) with jumper 18 A

Power Loss

Power loss, per pole (potential) 0.7661 W

Rated current I_N for power loss specification 24 AResistance value for specified, current-dependent power loss 0.00133 Ω **Connection data**

Clamping units 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 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 69.7 mm / 2.744 inches

Depth from upper-edge of DIN-rail 61.8 mm / 2.433 inches

Mechanical data

Potential marking L

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 (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.229 MJ
Weight	11.2 g

Environmental requirements

Processing temperature	-35 ... +85 °C	Environmental Testing
Continuous operating temperature	-60 ... +105 °C	Test specification: Railway applications – Rolling stock – Electronic equipment
		Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests
		Spectrum/Mounting location
		Service life test, Category 1, Class A/B
		Functional test with noise-like oscillations
		Test passed according to Section 8 of the standard
		Frequency
		$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
		Acceleration
		0.101g (highest test level used for all axes)
		Test duration per axis
		10 min.
		Test directions
		X, Y and Z axes
		Monitoring of contact faults and interruptions
		Passed
		Voltage drop measurement before and after each axis
		Passed
		Simulated service life test through increased levels of noise-like oscillations
		Test passed according to Section 9 of the standard
		Frequency
		$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
		Acceleration
		0.572g (highest test level used for all axes)
		Test duration per axis
		5 h
		Test directions
		X, Y and Z axes
		Extended testing: Monitoring of contact faults and interruptions
		Passed
		Extended testing: Voltage drop measurement before and after each axis
		Passed
		Shock test
		Test passed according to Section 10 of the standard
		Shock pulse form
		Half sine
		Acceleration
		5g (highest test level used for all axes)
		Shock duration
		30 ms
		Number of shocks (per axis)
		3 pos. und 3 neg.
		Test directions
		X, Y and Z axes
		Extended testing: Monitoring of contact faults and interruptions
		Passed
		Extended testing: Voltage drop measurement before and after each axis
		Passed
		Vibration and shock stress for rolling stock equipment
		Passed

Commercial data

Product Group	22 (TOPJOB S)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918989824
Customs tariff number	85369010000

Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 8.0	EC000897
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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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
ATEX-Attestation of Conformity WAGO GmbH & Co. KG	-	-
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 Shipping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

Approvals for hazardous areas

Approval	Standard	Certificate Name
ATEX Physikalisch Technische Bundesanstalt	EN 60079	PTB 03 ATEX 1162 U (II2G Ex eb IIC Gb, IM2 Ex eb IMb)
CCC CQST/CNEx	GB/T 3836.3	2020312313000238 (Ex eb IIC Gb, Ex eb I Mb)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 12.1307 U

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2002-2238



Documentation

Bid Text

2002-2238 24.04.2019

xml
4.30 KB



2002-2238 18.04.2019

docx
15.31 KB



CAD/CAE-Data

CAD data

2D/3D Models
2002-2238



CAE data

EPLAN Data Portal
2002-2238



WSCAD Universe
2002-2238



ZUKEN Portal
2002-2238



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



[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 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 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



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; 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 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.: 2002-413](#)

Continuous jumper; 3-way; insulated; light gray

[Item No.: 2002-415](#)

Continuous jumper; 5-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

[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

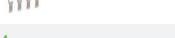
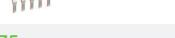
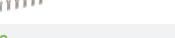
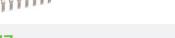
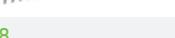
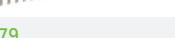
[Item No.: 2002-409/000-006](#)

Jumper; 9-way; insulated; blue

[Item No.: 2002-409](#)

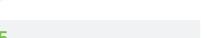
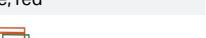
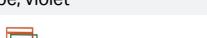
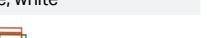
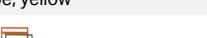
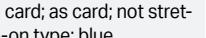
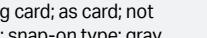
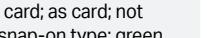
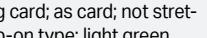
Jumper; 9-way; insulated; light gray

1.2.5.1 Jumper

			
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 Marking

1.2.6.1 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

1.2.6.1 Marker

**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

**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

1.2.6.2 Marker carrier

**Item No.: 2009-198**

Adaptor; gray

1.2.6.3 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 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

1.2.9 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 x 15 and 35 x 7.5; gray

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 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](#)

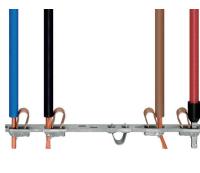
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

[Item No.: 210-720](#)

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

Installation Notes

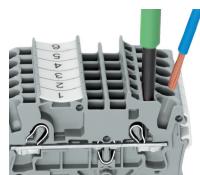
Conductor termination

**All conductor types at a glance**

Push-in termination of solid and ferruled conductors

**Inserting a conductor via push-in termination:**

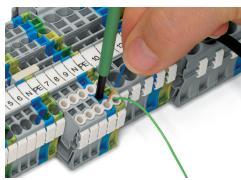
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

**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.

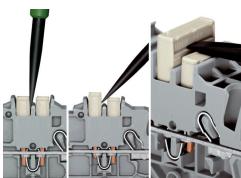
Advantage:

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

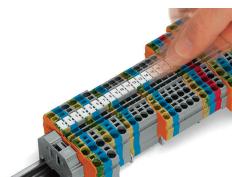
**Removing a push-in type jumper bar:**

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.

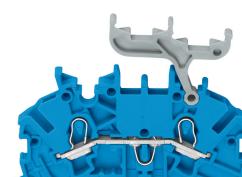
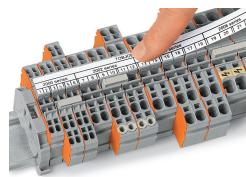


Insert push-in type jumper bar and push down until it hits backstop.

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.