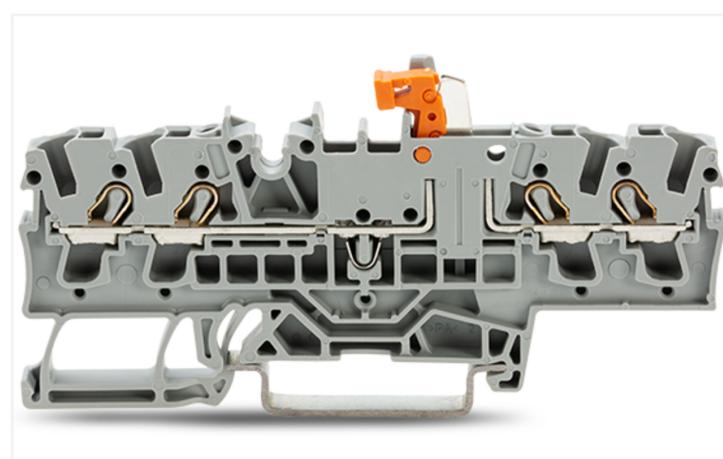
Color:  gray

Similar to illustration

Disconnect terminal block for test and measurement, 2002 Series, operating tool

Effortless electrical installations are guaranteed with this disconnect terminal block for test and measurement (item number 2002-1871/401-000). Conductors can only be connected to this disconnect terminal block for test and measurement 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. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. Depending on the conductor type, this disconnect terminal block for test and measurement is designed for conductor cross sections ranging from 0.25 mm<sup>2</sup> to 4 mm<sup>2</sup>. It features one level and four clamping points for connecting two potentials. The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails. This product is designed for specific Ex applications (please refer to the product datasheet).

## Notes

Safety Information

The 2 mm test slot is only approved for high impedance measurement up to max. 100 mA.

**Electrical data**

Ratings per			IEC/EN 60947-7-1		
Overvoltage category	III	III	II		
Pollution degree	3	2	2		
Nominal voltage	400 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	16 A	-	-		

Approvals per			UL 1059		
Use group	B	C	D		
Rated voltage	300 V	300 V	-		
Rated current	15 A	15 A	-		

Approvals per			CSA 22.2 No 158		
Use group	B	C	D		
Rated voltage	300 V	300 V	-		
Rated current	15 A	15 A	-		

Ex information		
Reference to hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"	
Ratings per	ATEX: KIWA 17 ATEX 0030 U / IECEx: KIWA 17.0014U (Ex ec IIC Gc)	
Rated voltage EN (Ex e II)	440 V	
Rated current (Ex e II)	17 A	

**Power Loss**

Power loss, per pole (potential)	0.3405 W
Rated current $I_N$ for power loss specification	16 A
Resistance value for specified, current-dependent power loss	0.00133 $\Omega$

**Connection data**

Clamping units	4
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

**Physical data**

Width	5.2 mm / 0.205 inches
Height	87.5 mm / 3.445 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)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.197 MJ
Weight	9.8 g

**Environmental requirements**

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

**Environmental Testing**

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
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

**Environmental Testing**

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 CN

GTIN 4055143868075

Customs tariff number 85365080000

**Product Classification**

UNSPSC 39121410

eCl@ss 10.0 27-14-11-26

eCl@ss 9.0 27-14-11-26

ETIM 9.0 EC000902

ETIM 8.0 EC000902

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
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	-	-
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
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX KIWA Netherlands B.V.	EN 60079	KIWA 17ATEX0030 U
CCC CNEX	GB/T 3836.3	2020312313000180 (Ex ec IIC Gc)
IECEx KIWA Netherlands B.V.	EN 60079	IECEx KIWA 17.0014U (Ex ec IIC Gc)

## Downloads

## Environmental Product Compliance

## Compliance Search

Environmental Product Compliance  
2002-1871/401-000



## Documentation

## Bid Text

2002-1871/401-000	24.04.2019	xml 4.04 KB	
2002-1871/401-000	23.04.2019	docx 15.37 KB	

## CAD/CAE-Data

## CAD data

2D/3D Models 2002-1871/401-000	
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## CAE data

EPLAN Data Portal 2002-1871/401-000	
WSCAD Universe 2002-1871/401-000	
ZUKEN Portal 2002-1871/401-000	

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 End plate

**Item No.: 2002-1891**

End and intermediate plate; 1 mm thick; gray

**Item No.: 2002-1892**

End and intermediate plate; 1 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 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

## 1.2.3 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 gray

[Item No.: 2002-413](#)

Continuous jumper; 3-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](#)

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](#)

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.: 2002-402/000-005](#)

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](#)

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.: 2002-404](#)

Jumper; 4-way; insulated; light gray

[Item No.: 2002-404](#)

Jumper; 5-way; insulated; light gray



### 1.2.5.1 Jumper

			
<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	<b>Item No.: 2002-405/011-000</b> Star point jumper; 3-way; insulated; light gray	<b>Item No.: 210-103</b> Wire commoning chain; insulated; black	<b>Item No.: 210-123</b> Wire commoning chain; insulated; blue

### 1.2.6 Marking

#### 1.2.6.1 Group marker carrier

		
<b>Item No.: 2009-191</b> Group marker carrier; gray	<b>Item No.: 2009-192</b> Group marker carrier; gray	<b>Item No.: 2009-193</b> 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

[Item No.: 2009-145/000-002](#)

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

[Item No.: 248-501/000-006](#)

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

[Item No.: 248-501/000-007](#)

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

[Item No.: 248-501/000-023](#)

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

[Item No.: 248-501/000-017](#)

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

[Item No.: 248-501/000-012](#)

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

[Item No.: 248-501/000-005](#)

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

[Item No.: 248-501/000-024](#)

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

[Item No.: 248-501](#)

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

[Item No.: 248-501/000-002](#)

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

[Item No.: 793-5501/000-006](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[Item No.: 793-5501/000-014](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

[Item No.: 793-5501/000-007](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[Item No.: 793-5501/000-023](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

[Item No.: 793-5501/000-017](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

[Item No.: 793-5501/000-012](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[Item No.: 793-5501/000-005](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

[Item No.: 793-5501/000-024](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[Item No.: 793-5501](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

[Item No.: 793-5501/000-002](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[Item No.: 2009-115/000-006](#)

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

[Item No.: 2009-115/000-007](#)

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

[Item No.: 2009-115/000-023](#)

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

[Item No.: 2009-115/000-017](#)

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

[Item No.: 2009-115/000-012](#)

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

[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



## 1.2.6.3 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

#### 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.: 2002-560

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

##### Item No.: 2002-511

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

##### Item No.: 2002-552

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

### 1.2.10.1 Testing accessories

**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; gray

### 1.2.11 Tool

#### 1.2.11.1 Operating tool

**Item No.: 210-658**

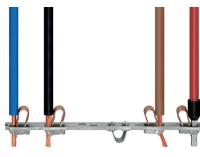
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

**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:**

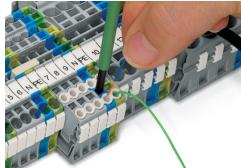
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

**Inserting a conductor via operating tool:**

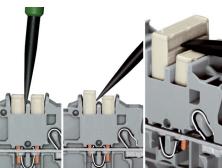
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

**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

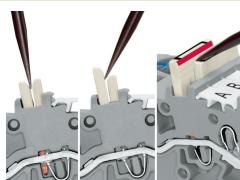


Insert push-in type jumper bar and push down until it hits backstop.

**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.

## Commoning



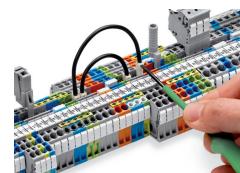
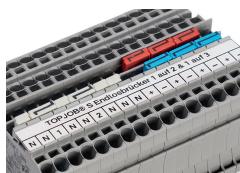
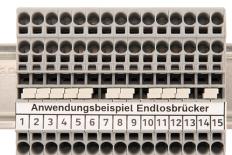
Orient the staggered jumpers' red stripes on the inside.

Insert the staggered jumper and push down until it hits the backstop.

**Removing a staggered jumper:**

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

## Commoning



Continuous jumpers (2002 Series) readily connect an endless number of terminal blocks to each other via single jumper slot. Use the second jumper slot for additional commoning or testing.

The 1-to-3 adjacent jumper for continuous commoning enables every other terminal block to be commoned. For example, positive and negative potentials can be accommodated alongside each other.

Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

## Testing



Testing with voltage tester.

The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.

TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester

Rail-mount terminal block assembly for electric motor wiring



Test plug adapter (Item No. 2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

Testing tap (Item No. 2009-182) for tool-free connection of test cables up to 2.5 mm<sup>2</sup> (12 AWG) – compatible with 2000 to 2016 Series

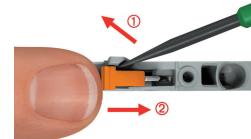


- One center and two side marker slots for WMB markers or marking strips
- Dual jumper slots in the same location as other 2002 Series terminal blocks
- Commoning options in front of or behind the knife disconnect, depending on the power supply direction

**Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock**  
Top view

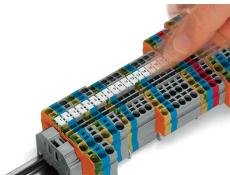


**Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock**  
Knife disconnect in open position

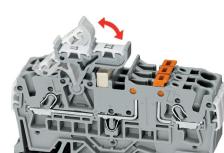
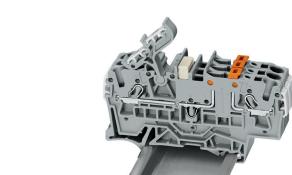
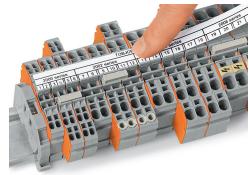


**Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock**  
Closing the knife disconnect.

## Marking

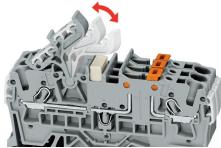


Snapping WMB Inline markers into marker slots.



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/test terminal block (2002-1671)

Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/test terminal block (2002-1671)



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/test terminal block (2002-1671)