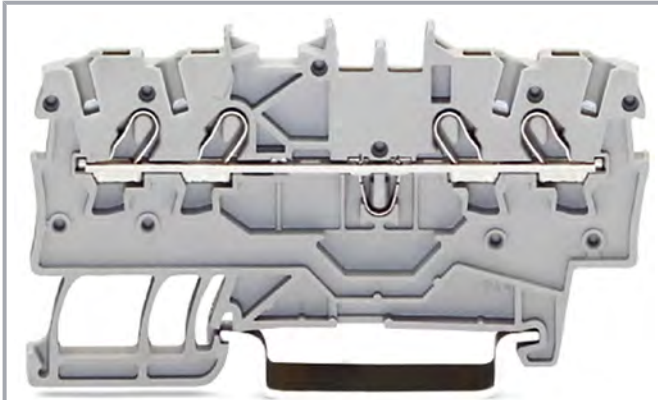


Data sheet | Item number: 2000-1401

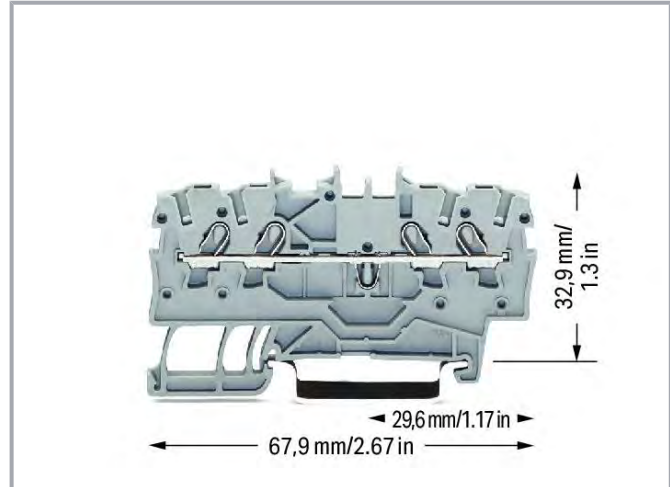
TOPJOB®S feedthrough terminal block; rail mount; 4-conductor; 3.5 mm wide; gray



RoHS 
Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color: 



Data

Electrical data

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



IEC Approvals

Ratings per	IEC/EN 60947-7-1
Rated voltage (III / 3)	800 V
Rated surge voltage (III/3)	8 kV
Rated current	13.5 A
Rated current 2	17.5 A
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

UL Approvals

Approvals per	UL 1059
Rated voltage UL (Use Group B)	600 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	15 A

CSA Approvals

Approvals per	C22.2 No 158
Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	10 A

Ex information

Ratings per	ATEX: PTB 11 ATEX 1041 U / IECEx: PTB 11.0093U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	13 A
Rated current (Ex e II) with jumper	12 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
Connectable conductor materials	Copper
Nominal cross-section	1 mm²
Solid conductor	0.14 ... 1.5 mm² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm² / 20 ... 16 AWG

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



Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 0.75 mm ² / 20 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 20 ... 18 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	9 ... 11 mm / 0.35 ... 0.43 inch
Total number of connection points	4
Total number of potentials	1
Number of levels	1
Wiring type	Front-entry wiring
Number of jumper slots	2

Physical data

Width	3.5 mm / 0.138 inch
Height	67.9 mm / 2.673 inch

Mechanical data

Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data

Color	gray
Insulation material	Polyamide (PA66)
Fire load	0.107 MJ
Weight	5.1 g

Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	CN
GTIN	4045454966928
Customs tariff number	8536904000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
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Subject to changes. Please also observe the further product documentation!

	AEx Underwriters Laboratories Inc.	UL 60079	E185892
	ATEX Physikalisch Technische Bundesanstalt	EN 60079	PTB 11 ATEX 1041 U (II 2 G Ex e IIC GB / I M 2 Ex e I Mb)
	CCCEX CQST/CNEx	CNCA-C23-01	2020312313000182
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02.B. 00127/19
	IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 11.0093 U (Ex e IIC Gb or Ex e I Mb)

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	71- 102841
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7671
	CSA DEKRA Certification B.V.	C22.2 No. 158	2130762
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE. AM02.B. 00127/19

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
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Subject to changes. Please also observe the further product documentation!

	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/A0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E10)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	20190930- E45172

Required accessories

End plate

	Item no.: 2000-1491 TOPJOB®S end/intermediate plate; for 2000-14xx series terminal blocks; 0.7 mm wide; gray
	Item no.: 2000-1492 TOPJOB®S end/intermediate plate; for 2000-14xx series terminal blocks; 0.7 mm wide; orange

Compatible products

Jumper

	Item no.: 2000-402 TOPJOB®S jumper; for 2000 series; insulated; 2-way; light-gray
	Item no.: 2000-402/000-005 TOPJOB®S jumper; for 2000 series; insulated; 2-way; red

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



Item no.: 2000-402/000-006
TOPJOB®S jumper; for 2000 series; insulated; 2-way; blue



Item no.: 2000-402/000-018
TOPJOB®S jumper; for 2000 series; insulated; 2-way; green-yellow



Item no.: 2000-403
TOPJOB®S jumper; for 2000 series; insulated; 3-way; light-gray



Item no.: 2000-403/000-005
TOPJOB®S jumper; for 2000 series; insulated; 3-way; red



Item no.: 2000-403/000-006
TOPJOB®S jumper; for 2000 series; insulated; 3-way; blue



Item no.: 2000-404
TOPJOB®S jumper; for 2000 series; insulated; 4-way; light-gray



Item no.: 2000-404/000-005
TOPJOB®S jumper; for 2000 series; insulated; 4-way; red



Item no.: 2000-404/000-006
TOPJOB®S jumper; for 2000 series; insulated; 4-way; blue



Item no.: 2000-405
TOPJOB®S jumper; for 2000 series; insulated; 5-way; light-gray



Item no.: 2000-405/000-005
TOPJOB®S jumper; for 2000 series; insulated; 5-way; red



Item no.: 2000-405/000-006
TOPJOB®S jumper; for 2000 series; insulated; 5-way; blue



Item no.: 2000-405/011-000
TOPJOB®S jumper; Wye configuration; for 2000 series; insulated; 3-way (1-3-5); light-gray



Item no.: 2000-406
TOPJOB®S jumper; for 2000 series; insulated; 6-way; light-gray



Item no.: 2000-406/000-005
TOPJOB®S jumper; for 2000 series; insulated; 6-way; red

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



Item no.: 2000-406/000-006

TOPJOB®S jumper; for 2000 series; insulated; 6-way; blue



Item no.: 2000-406/020-000

TOPJOB®S jumper; Delta configuration; for 2000 series; insulated; 6-way (1-2, 3-4, 5-6); light-gray



Item no.: 2000-407

TOPJOB®S jumper; for 2000 series; insulated; 7-way; light-gray



Item no.: 2000-407/000-005

TOPJOB®S jumper; for 2000 series; insulated; 7-way; red



Item no.: 2000-407/000-006

TOPJOB®S jumper; for 2000 series; insulated; 7-way; blue



Item no.: 2000-408

TOPJOB®S jumper; for 2000 series; insulated; 8-way; light-gray



Item no.: 2000-408/000-005

TOPJOB®S jumper; for 2000 series; insulated; 8-way; red



Item no.: 2000-408/000-006

TOPJOB®S jumper; for 2000 series; insulated; 8-way; blue



Item no.: 2000-409

TOPJOB®S jumper; for 2000 series; insulated; 9-way; light-gray



Item no.: 2000-409/000-005

TOPJOB®S jumper; for 2000 series; insulated; 9-way; red



Item no.: 2000-409/000-006

TOPJOB®S jumper; for 2000 series; insulated; 9-way; blue



Item no.: 2000-410

TOPJOB®S jumper; for 2000 series; insulated; 10-way; light-gray



Item no.: 2000-410/000-005

TOPJOB®S jumper; for 2000 series; insulated; 10-way; red



Item no.: 2000-410/000-006

TOPJOB®S jumper; for 2000 series; insulated; 10-way; blue

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



Item no.: 2000-433
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); light-gray



Item no.: 2000-433/000-005
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); red



Item no.: 2000-433/000-006
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); blue



Item no.: 2000-434
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-4); light-gray



Item no.: 2000-435
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-5); light-gray



Item no.: 2000-436
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-6); light-gray



Item no.: 2000-437
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-7); light-gray



Item no.: 2000-438
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-8); light-gray



Item no.: 2000-439
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-9); light-gray



Item no.: 2000-440
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-10); light-gray



Item no.: 210-103
Wire commoning chain; insulated; black



Item no.: 210-123
Wire commoning chain; insulated; blue

Marking accessories



Item no.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



Item no.: 2009-113
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white



Item no.: 2009-113/000-002
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow



Item no.: 2009-113/000-005
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red

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

	Item no.: 2009-113/000-006 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue
	Item no.: 2009-113/000-007 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray
	Item no.: 2009-113/000-012 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange
	Item no.: 2009-113/000-017 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green
	Item no.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green
	Item no.: 2009-113/000-024 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet
	Item no.: 2009-191 Group marker carrier
	Item no.: 793-3501 WMB marking card; as card; plain; snap-on type; white
Push-In type wire jumper	
	Item no.: 2009-402 TOPJOB®S wire jumper; insulated; 60 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; gray
	Item no.: 2009-404 TOPJOB®S wire jumper; insulated; 110 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; gray
	Item no.: 2009-406 TOPJOB®S wire jumper; insulated; 250 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; gray
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.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red
tools	

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

**Item no.: 210-647**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

**Item no.: 210-648**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

End plate**Item no.: 209-191**

Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

Carrier rail**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.: 210-113**

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

**Item no.: 210-114**

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

**Item no.: 210-115**

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.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

**Item no.: 210-197**

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

**Item no.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Protective Warning Marker**Item no.: 2000-115**

TOPJOB®S protective warning marker; with high-voltage symbol, for 2000 series terminal blocks; for 5 terminal blocks

check**Item no.: 2000-510**

TOPJOB®S modular connector; for 2000 series; for jumper contact slot; 1-pole; gray

**Item no.: 2000-511**

TOPJOB®S modular connector; for 2000 series; with gray separator plate; for jumper contact slot; 1-pole; gray

**Item no.: 2000-549**

TOPJOB®S spacer module; for 2000-511; 5.2 mm wide; gray

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

	Item no.: 2000-552 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 2-pole; gray
	Item no.: 2000-553 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 3-pole; gray
	Item no.: 2000-554 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 4-pole; gray
	Item no.: 2000-555 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 5-pole; gray
	Item no.: 2000-556 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 6-pole; gray
	Item no.: 2000-557 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 7-pole; gray
	Item no.: 2000-558 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 8-pole; gray
	Item no.: 2000-559 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 9-pole; gray
	Item no.: 2000-560 TOPJOB® S connector strip; for 2000 series; for jumper contact slot; 10-pole; gray
	Item no.: 2009-174 TOPJOB® S test plug adapter; for test plug 4 mm Ø; for testing TOPJOB® S terminal blocks; gray
	Item no.: 2009-182 TOPJOB® S testing tap; tool-free; 12 AWG max; for testing TOPJOB® S terminal blocks; gray
	Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable
	Item no.: 210-137 Test plug; 2.3 mm Ø; with 500 mm cable

Downloads

Documentation

Bid Text

2000-1401 X81 - Datei	Feb 19, 2019	xml 4.0 kB
2000-1401 docx - Datei	Aug 7, 2018	docx 14.9 kB

Additional Information

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

CAD files

CAE data

EPLAN Data Portal 2000-1401

ZUKEN Portal 2000-1401

WSCAD Universe 2000-1401

CAD data

2D/3D Models 2000-1401

Environmental Product Compliance

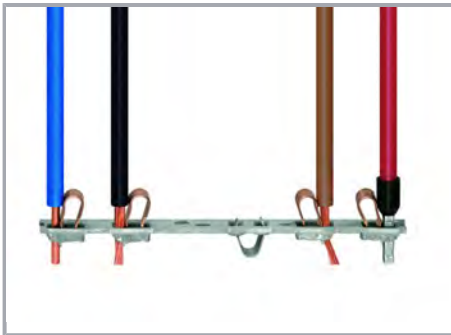
Compliance Search

Environmental Product Compliance 2000-1401

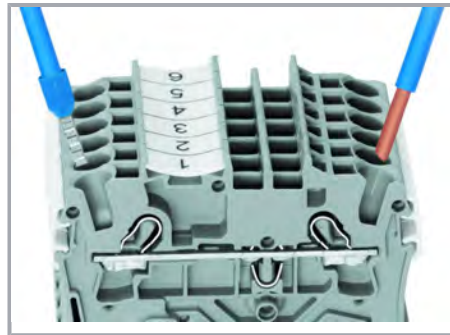
4-conductor through terminal block; 1 mm²; suitable for Ex e II applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

Installation Notes

Conductor termination

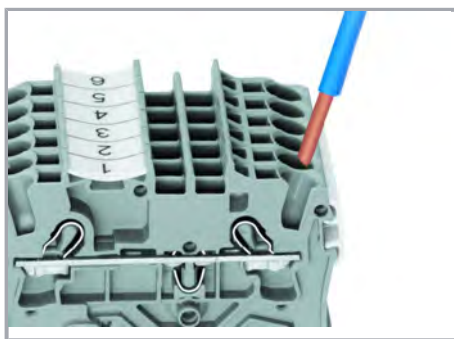


All conductor types at a glance



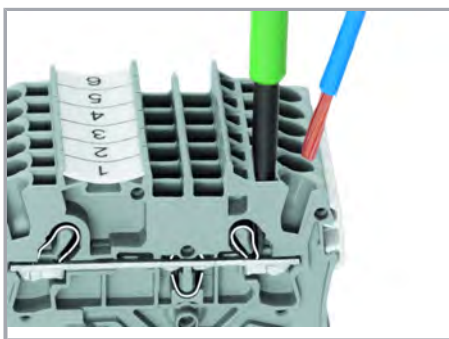
Push-in termination of solid and ferruled conductors

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



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:

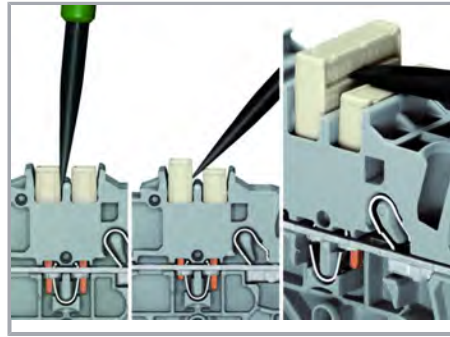
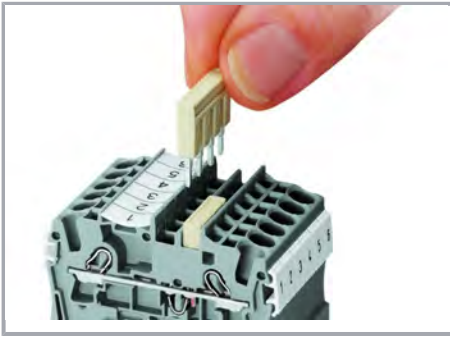
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

Advantage:

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

Commoning

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



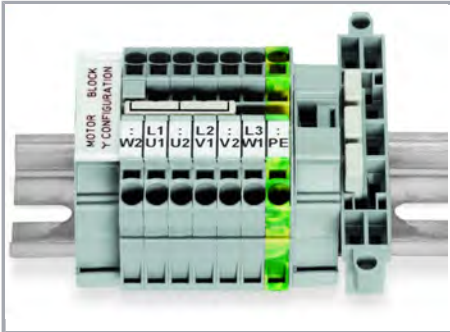
The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the full-rated current of the terminal block. Ground terminal blocks can also be commoned using the same jumper system. Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).

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



This star point jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



Push down the wire jumper (2009-402) until fully inserted. For rewiring, lift the jumper with an operating tool at the notch provided for this purpose on the jumper.

Testing

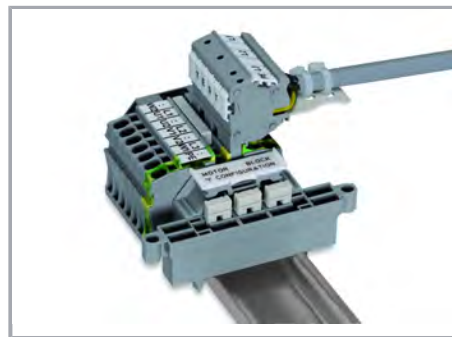
Subject to changes. Please also observe the further product documentation!



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

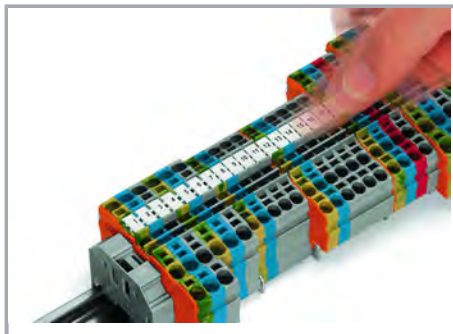


Test plug adapter (2009-174, CAT II) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

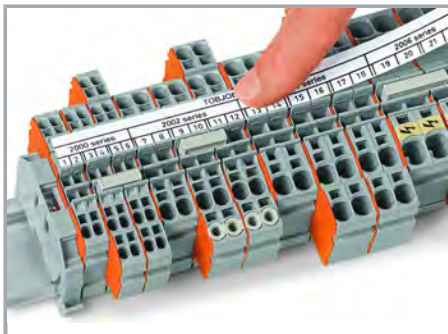


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking



Snapping WMB Inline markers into marker slots.



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



TOPJOB® S 2009-193 Group Marker Carrier
(equipped with a marking strip) for all 2001 to
2016 Series TOPJOB® S Rail-Mount Terminal
Blocks

Do not use on an end plate!



Through terminal blocks with a blue
insulated housing are suitable for Ex i
applications.



All through and ground conductor terminal
blocks are suitable for Ex e II applications.

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



Separator plate for Ex e/Ex i applications

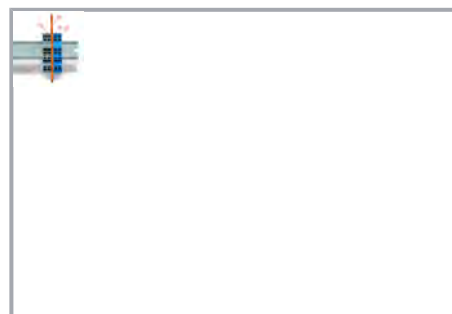
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.



Ex e II/Ex i terminal strip

Note:

The movable feet of terminal blocks and separator plates must face the same direction.



A separator plate is located between the Ex e II and Ex i terminal strip.

End plate

Ex e II terminal blocks

Separator plate for Ex e/Ex i applications

End plate

Ex i terminal blocks

According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common DIN-rail.

Product family

TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

[Show all products from the family](#)

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