2-conductor miniature through terminal block; with operating slots; 1 mm²; End terminal block with mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; blue



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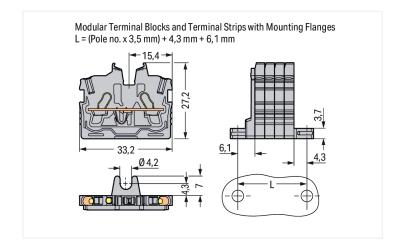


Color: blue

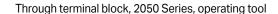




Similar to illustration



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Our through terminal block (item number 2050-304) is the ideal way to connect conductors quickly and securely. Whether in industrial or building applications, our rail-mount through terminal blocks are the perfect solution to quickly and securely connect electrical conductors. Depending on the variant, you can use them for either typical through-wiring or potential distribution. Our mini rail-mount terminal block is rated for 500 V and is designed for use with a rated current of up to 13.5 A. Conductors can only be connected to this through terminal block if their strip length is between 9 mm and 11 mm. Featuring conductor terminals along with Push-in CAGE CLAMP®, this product is highly versatile. 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. This through terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm². It has one level. You can connect a single potential using the two clamping points. The blue housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this mini rail-mount terminal block. Our TOPJOB® S rail-mount terminal blocks guarantee secure electrical connections across many industrial applications and modern building installations. They simplify wiring, as you can quickly plug in solid, stranded, and fine-stranded conductors with ferrules. Conductors made of copper can be connected via front-entry wiring. The one jumper slot enables potential distribution to other clamping points. This product is designed for specific Ex applications (please refer to the product datasheet).

Electrical data			
Ratings per	IEC/	EN 60998-	2-2
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	13.5 A	-	-
Current at conductor cross-section (max.) mm ²	17.5 A	-	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	300 V	-
Rated current	10 A	10 A	-

Approvals per	CS	SA 22.2 No 1	58
Use group	В	С	D
Rated voltage	300 V	300 V	-
Rated current	10 A	10 A	-

Ex information	
Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
Ratings per	ATEX: PTB 19 ATEX 1019 U / IECEx: PTB 19.0050U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	352 V
Rated current (Ex e II)	13.5 A
Rated current (Ex e II) with jumper	12 A

Power Loss	
Power loss, per pole (potential)	0.4338 W
Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current- dependent power loss	0.00238 Ω

Connection data		
Clamping units	2	
Total number of potentials	1	
Number of levels	1	
Number of jumper slots	1	

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
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
Fine-stranded conductor	0.14 1.5 mm² / 24 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 1 mm² / 24 18 AWG
Fine-stranded conductor; with uninsulated ferrule	0.14 1 mm² / 24 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 1 mm² / 20 18 AWG

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Mechanical data



Connection 1	
Note (conductor cross-section)	Depending on the conductor characteri- stic, a conductor with a smaller cross- section can also be inserted via push-in termination.
Strip length	9 11 mm / 0.35 0.43 inches
Wiring direction	Front-entry wiring

Physical data	
Width	3.5 mm / 0.138 inches
Height from the surface	27.2 mm / 1.071 inches
Depth	33.2 mm / 1.307 inches

Mounting type	Mounting flange
Marking level	Center/side marking
Material data	

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	blue
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.051 MJ
Weight	2.5 g

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

Commercial data	
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143964968
Customs tariff number	85369010000

Product classification	
UNSPSC	39121410
ETIM 9.0	EC001284
ETIM 8.0	EC001284
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 60998	NTR NL 7840
CSA CSA	C22.2 No. 158	80034182
cURus Underwriters Laboratories Inc.	UL 1059	E45172
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113957

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	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas













Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 19 ATEX 1019 U (II 2G Ex eb IIC Gb or I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000289 (Ex eb IIC Gb, Ex eb I Mb)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 19.0050U (Ex eb IIC Gb or EX eb I Mb)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 22.0014 U

Downloads

Environmental Product Compliance

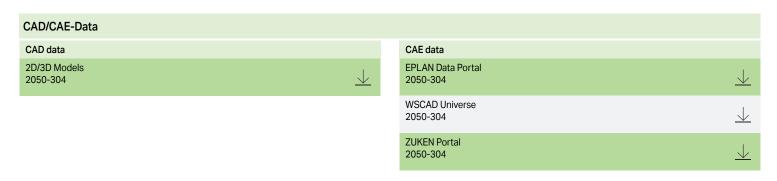
Compliance Search

Environmental Product Compliance 2050-304



https://www.wago.com/2050-304





1 Compatible Products

1.1 System counterpart

1.1.1 Through terminal block



Item No.: 2050-324

2-conductor miniature through terminal block; with operating slots; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CA-GE CLAMP®; 1,00 mm²; blue

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



Item No.: 2050-381

End plate; with fixing flange; 1.3 mm thick; gray

1.3 Optional Accessories

1.3.1 Ferrule

1.3.1.1 Ferrule



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

<u>Item No.: 216-243</u>

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



1.3.2 Installation

1.3.2.1 Mounting accessories



Item No.: 209-137

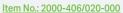
Mounting adapter; can be used as end

stop; 6.5 mm wide; gray

1.3.3 Jumper

1.3.3.1 Jumper





Delta jumper; insulated; light gray



Item No.: 2000-402/000-006

Jumper; 2-way; insulated; blue



Item No.: 2000-403/000-006

Jumper; 3-way; insulated; blue



Item No.: 2000-404

Jumper; 4-way; insulated; light gray



Item No.: 2000-405/000-005

Jumper; 5-way; insulated; red



Item No.: 2000-407/000-006

Jumper; 7-way; insulated; blue

Item No.: 2000-408 Jumper; 8-way; insulated; light gray



Item No.: 2000-409/000-005

Jumper; 9-way; insulated; red



Item No.: 2000-433/000-005 Jumper; from 1 to 3; insulated; red



Item No.: 2000-437 Jumper; from 1 to 7; insulated; light gray Item No.: 2000-438

Jumper; from 1 to 8; insulated; light gray

Jumper; from 1 to 4; insulated; light gray

Jumper; from 1 to 10; insulated; light gray

Item No.: 2000-410/000-006

Item No.: 2000-402

Item No.: 2000-403

Jumper; 10-way; insulated; blue

Jumper; 2-way; insulated; light gray

Jumper; 3-way; insulated; light gray

Item No.: 2000-404/000-005

Jumper; 4-way; insulated; red

Item No.: 2000-406/000-006

Item No.: 2000-407

Item No.: 2000-440

Item No.: 2000-434

Jumper; 6-way; insulated; blue

Jumper; 7-way; insulated; light gray

Item No.: 2000-408/000-005

Jumper; 8-way; insulated; red

Item No.: 2000-439

Item No.: 2000-435

Jumper; from 1 to 9; insulated; light gray

Jumper; from 1 to 5; insulated; light gray

Item No.: 2000-410/000-005

Item No.: 2000-402/000-018

Item No.: 2000-404/000-006

Item No.: 2000-405

Jumper; 4-way; insulated; blue

Jumper; 5-way; insulated; light gray

Item No.: 2000-406/000-005

Jumper; 6-way; insulated; red

Item No.: 2000-408/000-006

Item No.: 2000-409

Item No.: 2000-433

Jumper; 8-way; insulated; blue

Jumper; 9-way; insulated; light gray

Jumper; 2-way; insulated; yellow-green

Jumper; 10-way; insulated; red

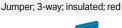
Jumper; 10-way; insulated; light gray



Item No.: 2000-402/000-005 Jumper; 2-way; insulated; red

Item No.: 2000-410

Item No.: 2000-403/000-005



Item No.: 2000-405/000-006

Jumper; 5-way; insulated; blue



Item No.: 2000-406 Jumper; 6-way; insulated; light gray

Item No.: 2000-407/000-005 Jumper; 7-way; insulated; red

Item No.: 2000-409/000-006 Jumper; 9-way; insulated; blue

Item No.: 2000-433/000-006

Jumper; from 1 to 3; insulated; blue

Jumper; from 1 to 3; insulated; light gray

Item No.: 2000-436 Jumper; from 1 to 6; insulated; light gray



Item No.: 2000-405/011-000

Star point jumper; 3-way; insulated; light gray

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1.3.4 Marking

1.3.4.1 Group marker carrier



Item No.: 2009-191

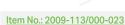
Group marker carrier; gray

1.3.4.2 Marker









Item No.: 793-3501

WMB marking card; as card; plain; snapon type; white

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

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green

Item No.: 2009-113/000-017

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

Item No.: 2009-113/000-024

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green

WMB-Inline; for Smart Printer; 2300 pie-

ces on roll; plain; snap-on type; orange

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet

Item No.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

Item No.: 2009-113/000-002

Item No.: 2009-113/000-012

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow

1.3.4.3 Marking strip



Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.3.5 Protective warning marker

1.3.5.1 Cover



Item No.: 2000-115

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

1.3.6 Push-in type wire jumper

1.3.6.1 Jumper







Item No.: 2009-404

Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray

Item No.: 2009-406

Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray

Item No.: 2009-402

Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

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1.3.7 Test and measurement

1.3.7.1 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.: 210-136

Test plug; 2 mm Ø; with 500 mm cable;

Item No.: 2009-182
Testing tap: for max

Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.3.8 Tool

1.3.8.1 Operating tool

partially insulated shaft



<u>Item No.: 210-719</u> Operating tool; Blade: 2.5 x 0.4 mm; with a Item No.: 210-648

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

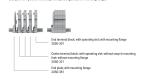
Item No.: 210-647

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

Installation Notes

Installation

Example of a 4-cole terminal strip; with operating slots; with mounting flam



Conductor termination



Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.



Insert fine-stranded conductors via operating tool.



Remove all conductors via operating tool.

Commoning



Insert a delta jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



Marking strip (Item No. 2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (delta jumper) (example shows terminal blocks with push-buttons)



Insert a star point jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



Marking strip (Item No. 2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

https://www.wago.com/2050-304



Testing



Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

Installation



Mounting and securing a terminal strip directly to the plate via screw-type flanges (example shows terminal blocks with push-buttons).



Terminal strip; with mounting flanges; screw mounting (example shows terminal blocks with push-buttons)

Marking



Snapping a marking strip into the marker slot.



Snapping a marking strip (Item No. 2009-110) into a marker slot.

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

Current addresses can be found at:: $\underline{www.wago.com}$

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