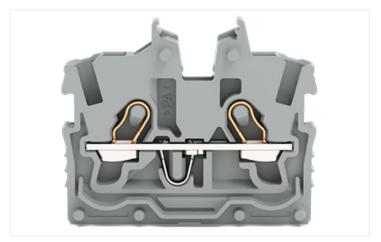
2-conductor miniature through terminal block; with operating slots; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; gray



https://www.wago.com/2050-321



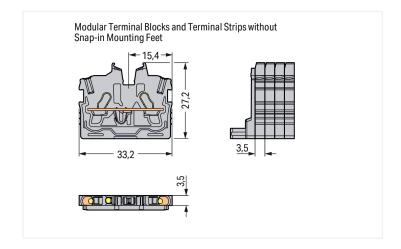


Color: ■ gray





Similar to illustration



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Easily, quickly and safely connect conductors with this through terminal block (item number 2050-321). Whether for use in industry or building installations, our rail-mount through terminal blocks make it easy to quickly and securely connect electrical conductors. They're perfect for either classic through-wiring or distributing potential, depending on the variant. Our mini rail-mount terminal block is rated for 500 V and is designed to handle a rated current of up to 13.5 A. Strip lengths must be between 9 mm and 11 mm when connecting conductors to this through terminal block. This product features 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. Depending on the type of conductor, this through terminal block is designed for conductor cross sections ranging from 0.14 mm² to 1.5 mm². It has one level. The single potential can connect using the two clamping points The gray 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 offer more than just secure electrical connections in a range of different industrial applications and modern building installations. They also offer the perfect solution for every use: lever, push-button, or operating slot. Conductors made of copper can be connected thanks to 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	CSA 22.2 No 158		
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

Data Sheet | Item Number: 2050-321 https://www.wago.com/2050-321



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

Mechanical data	
Mounting type	without snap-in mounting feet
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 MJ
Weight	2.3 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	IN
GTIN	4055143964784
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	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
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

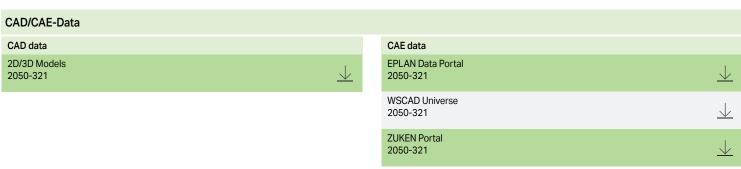
Compliance Search

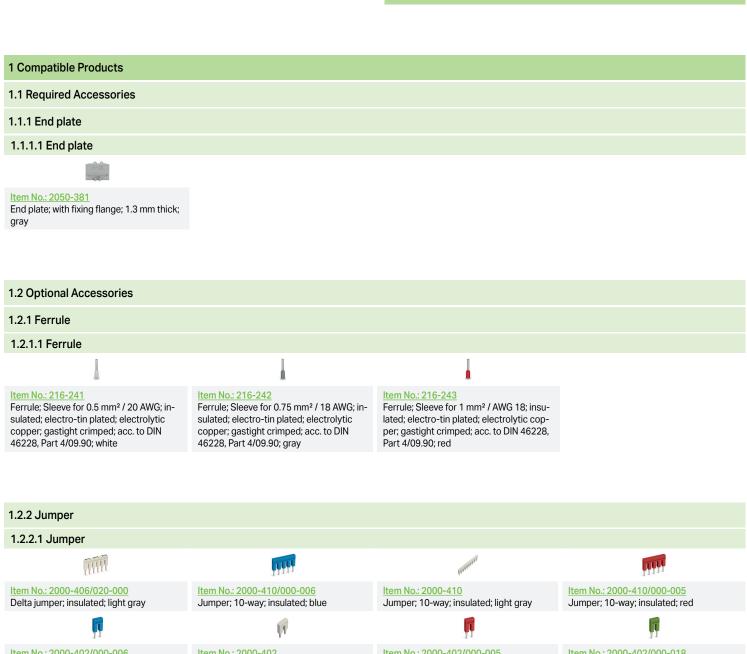
Environmental Product Compliance 2050-321



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https://www.wago.com/2050-321



1.2.2.1 Jumper









Item No.: 2000-405/000-005

Item No.: 2000-406/000-006

Item No.: 2000-406

Item No.: 2000-406/000-005

Jumper; 5-way; insulated; red

Jumper; 6-way; insulated; blue

Jumper; 6-way; insulated; light gray

Jumper; 6-way; insulated; red

Item No.: 2000-407/000-006

Jumper; 7-way; insulated; blue

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

Item No.: 2000-408/000-006



Jumper; 7-way; insulated; red

Jumper; 8-way; insulated; blue



......

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

Item No.: 2000-408/000-005 Jumper; 8-way; insulated; red Item No.: 2000-409/000-006 Jumper; 9-way; insulated; blue Item No.: 2000-409

Jumper; 9-way; insulated; light gray

Jumper; 9-way; insulated; red

Item No.: 2000-409/000-005

Item No.: 2000-440

Jumper; from 1 to 10; insulated; light gray

Item No.: 2000-433/000-006

Item No.: 2000-433 Jumper; from 1 to 3; insulated; blue

Jumper; from 1 to 3; insulated; light gray

Item No.: 2000-433/000-005

Jumper; from 1 to 3; insulated; red

Item No.: 2000-434 Jumper; from 1 to 4; insulated; light gray Item No.: 2000-435

Jumper; from 1 to 5; insulated; light gray

Item No.: 2000-436

Jumper; from 1 to 6; insulated; light gray

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

Jumper; from 1 to 8; insulated; light gray

Item No.: 2000-439

Jumper; from 1 to 9; insulated; light gray

Item No.: 2000-405/011-000

Star point jumper; 3-way; insulated; light

1.2.3 Marking

1.2.3.1 Group marker carrier



Group marker carrier; gray



1.2.3.2 Marker



Item No.: 2009-113/000-017









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

Item No.: 2009-113/000-023

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

Item No.: 2009-113/000-012

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

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; violet



WMB-Inline; for Smart Printer; 2300 pie-

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

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https://www.wago.com/2050-321



1.2.3.3 Marking strip



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

1.2.4 Protective warning marker

1.2.4.1 Cover



Item No.: 2000-115

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

1.2.5 Push-in type wire jumper

1.2.5.1 Jumper

1

lated; 110 mm long; gray

<u>Item No.: 2009-404</u> Push-in type wire jumper; 0.75 mm²; insuItem 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

1.2.6 Test and measurement

1.2.6.1 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 \emptyset ; with 500 mm cable; red

Item No.: 2009-182

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

1.2.7 Tool

1.2.7.1 Operating tool

Item No.: 210-719

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

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

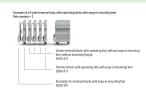


Installation Notes

Installation







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)

Testing



Testing with a 2 mm \emptyset 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)

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Installation



Mounting a terminal strip with snap-in feet into holes.



Mounting a terminal strip with snap-in feet onto aluminum rail.



Snapping a mounting foot (209-120) to a terminal strip with snap-in mounting feet.

(Distance between mounting feet: approx. 20 ... 25 mm)



Terminal strip; with snap-in mounting feet; for DIN-35 rail (209-120 Mounting Foot) (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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