

Data Sheet | Item Number: 2050-327

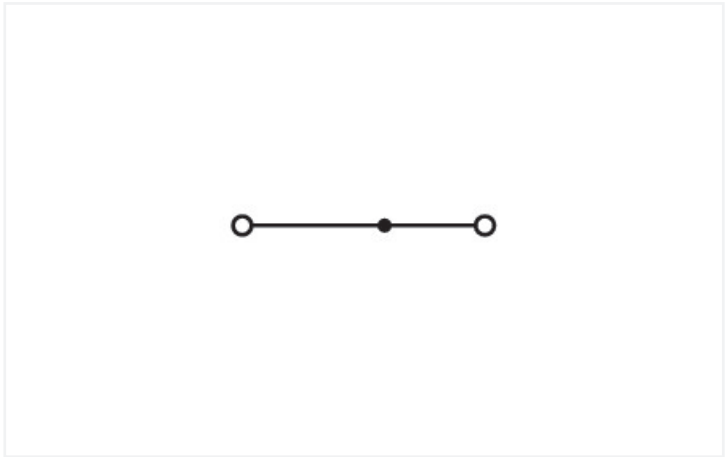
2-conductor miniature through terminal block; with operating slots; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow



<https://www.wago.com/2050-327>



Color:  green-yellow



Similar to illustration

Electrical data

Ex information	
Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"

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

Connection points	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 ... 0.75 mm² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm² / 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 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	none
Marking level	Center/side marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	green-yellow
Material group	I
Insulation material	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	
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143964791
Customs tariff number	85369010000

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60998	NTR NL 7840	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CSA CSA	C22.2 No. 158	80034182			
cURus Underwriters Laboratories Inc.	UL 1059	E45172			
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113957			



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 2050-327



Documentation

Additional Information
Technical Section

pdf
2142.18 KB



CAD/CAE-Data

CAD data
2D/3D Models 2050-327



CAE data
EPLAN Data Portal 2050-327
ZUKEN Portal 2050-327



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 2050-381

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

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 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.: 216-243

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

1.2.2 Jumper

1.2.2.1 Jumper

Item No.: 2000-406/020-000

Delta jumper; insulated; light gray

Item No.: 2000-410/000-006

Jumper; 10-way; insulated; blue

Item No.: 2000-410

Jumper; 10-way; insulated; light gray

Item No.: 2000-410/000-005

Jumper; 10-way; insulated; red

Item No.: 2000-402/000-006

Jumper; 2-way; insulated; blue

Item No.: 2000-402

Jumper; 2-way; insulated; light gray

Item No.: 2000-402/000-005

Jumper; 2-way; insulated; red

Item No.: 2000-402/000-018

Jumper; 2-way; insulated; yellow-green

Item No.: 2000-403/000-006

Jumper; 3-way; insulated; blue

Item No.: 2000-403

Jumper; 3-way; insulated; light gray

Item No.: 2000-403/000-005

Jumper; 3-way; insulated; red

Item No.: 2000-404/000-006

Jumper; 4-way; insulated; blue

Item No.: 2000-404

Jumper; 4-way; insulated; light gray

Item No.: 2000-404/000-005

Jumper; 4-way; insulated; red

Item No.: 2000-405/000-006

Jumper; 5-way; insulated; blue

Item No.: 2000-405

Jumper; 5-way; insulated; light gray

Item No.: 2000-405/000-005

Jumper; 5-way; insulated; red

Item No.: 2000-406/000-006

Jumper; 6-way; insulated; blue

Item No.: 2000-406

Jumper; 6-way; insulated; light gray

Item No.: 2000-406/000-005

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

Jumper; 7-way; insulated; red

Item No.: 2000-408/000-006

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

Item No.: 2000-409/000-005

Jumper; 9-way; insulated; red

Item No.: 2000-440

Jumper; from 1 to 10; insulated; light gray

Item No.: 2000-433/000-006

Jumper; from 1 to 3; insulated; blue

Item No.: 2000-433

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



1.2.2.1 Jumper



[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 gray

1.2.3 Marking

1.2.3.1 Group marker carrier



[Item No.: 2009-191](#)

Group marker carrier; gray

1.2.3.2 Marker



[Item No.: 793-3501](#)

WMB marking card; as card; plain; snap-on 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.: 2009-113/000-017](#)

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



[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

1.2.3.3 Marking strip



[Item No.: 2009-110](#)

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



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

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 Ø; 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

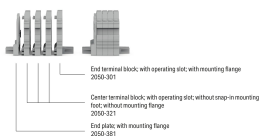


Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

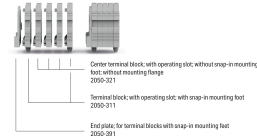
Installation Notes

Installation

Example of a 4-pole terminal strip, with operating slots, with mounting flange



Example of a 5-pole terminal strip, with operating slots, with snap-in-mounting feet Pole number > 2



Conductor termination



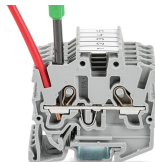
Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.

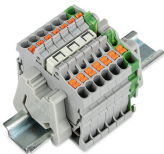


Insert fine-stranded conductors via operating tool.

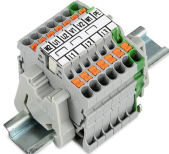


Remove all conductors via operating tool.

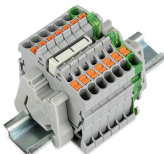
Commoning



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



Marking strip (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).



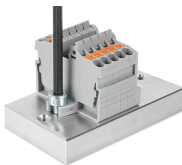
Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

Testing

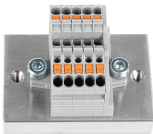


Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

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)

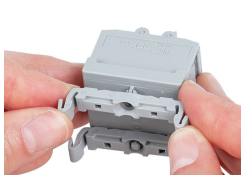
Installation



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 (2009-110) into a marker slot.