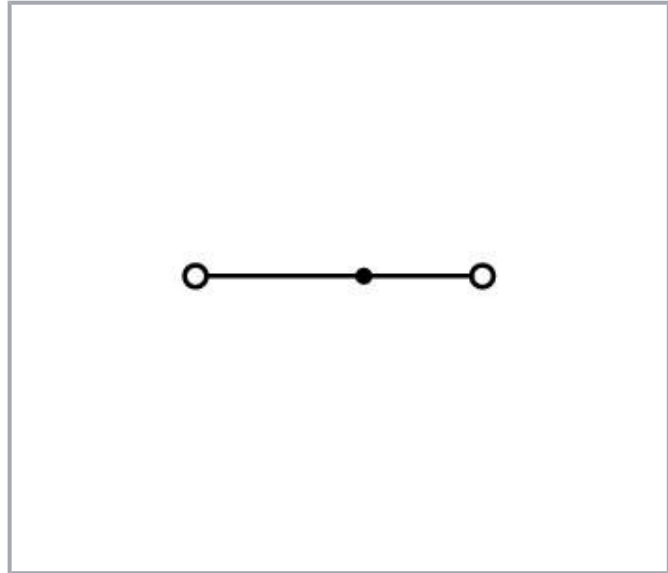
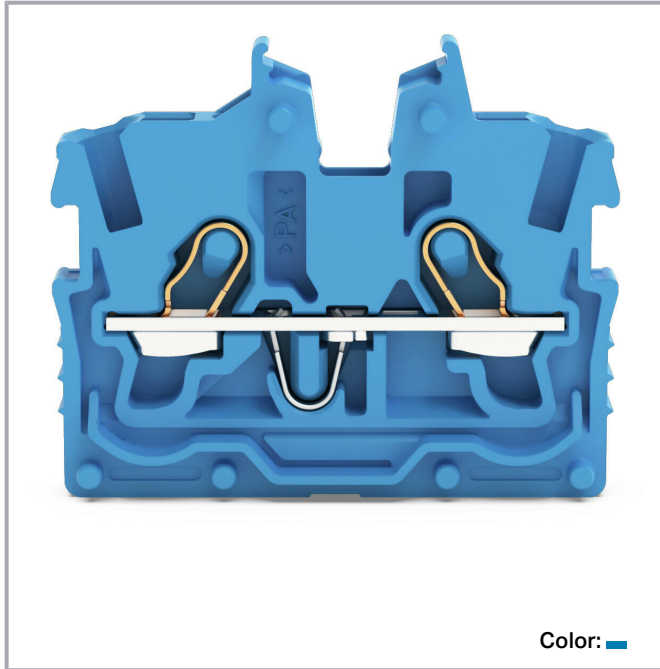


**Data sheet | Item number: 2050-324**

2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>; with test port; side and center marking; Center terminal block without snap-in mounting foot, without mounting flange; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; blue



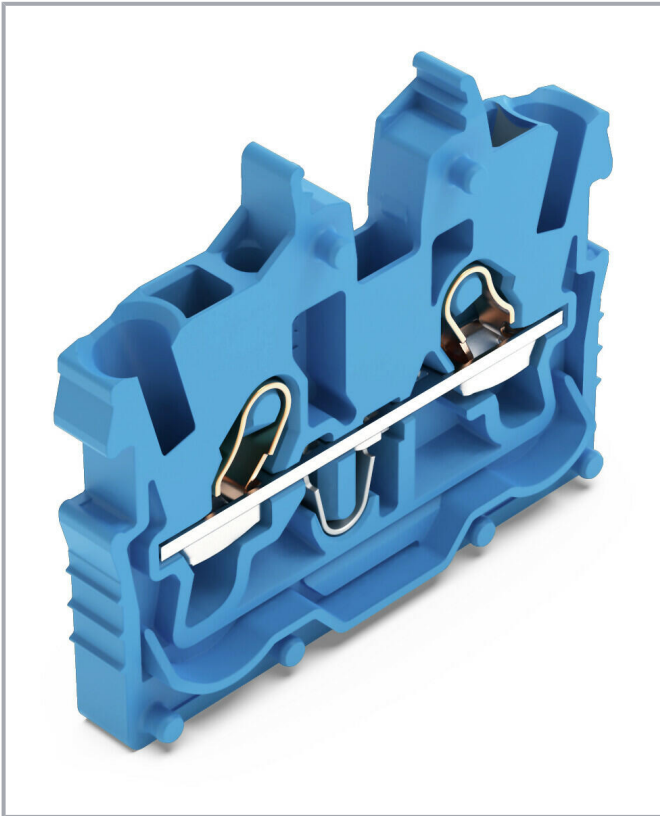
[www.wago.com/2050-324](http://www.wago.com/2050-324)



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

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## Data

### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated current	13.5 A
Rated current 2	17.5 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

#### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	300 V

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Rated current UL (Use Group C)	10 A
--------------------------------	------

### Ratings per CSA

Approvals per	C22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A

### Ex information

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

### Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Operating tool
Connectable conductor materials	Copper Copper
Nominal cross-section	1 mm <sup>2</sup>
Solid conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm <sup>2</sup> / 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	2
Total number of potentials	1
Number of levels	1
Wiring direction	Front-entry wiring
Number of jumper slots	1

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## Physical data

Width	3.5 mm / 0.138 inch
Height from the surface	27.2 mm / 1.071 inch
Depth	33.2 mm / 1.307 inch

## Mechanical data

Design	horizontal type
Marking level	Center/side marking

## Material data




Color	blue
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.046 MJ
Weight	2.3 g

## Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143964982
Customs tariff number	85369010000




## Approvals / Certificates

### Ex-Approvals


Logo	Approval	Additional Approval Text	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)
	CCCEX CQST/CNEX	CNCA-C23-01	2020312313000289
	IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 19.0050 U (Ex eb IIC Gb or EX eb I Mb)

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

## Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL 7840
	CSA CSA	C22.2 No. 158	80034182
	KEMA/KEUR DEKRA Certification B.V.	EN 60998	71- 113957

## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1059	E45172- 20200212

## Counterpart



## Item no.2050-314

2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>; with test port; side and center marking; with snap-in mounting foot; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; blue

[www.wago.com/2050-314](http://www.wago.com/2050-314)



## Item no.2050-304

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

[www.wago.com/2050-304](http://www.wago.com/2050-304)

## Optional accessories

## Protective warning marker



## Item no.: 2000-115

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

[www.wago.com/2000-115](http://www.wago.com/2000-115)

## Push-in type wire jumper



## Item no.: 2009-402

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray

[www.wago.com/2009-402](http://www.wago.com/2009-402)

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

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	<b>Item no.: 2009-404</b> Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 110 mm long; gray	<a href="http://www.wago.com/2009-404">www.wago.com/2009-404</a>
	<b>Item no.: 2009-406</b> Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 250 mm long; gray	<a href="http://www.wago.com/2009-406">www.wago.com/2009-406</a>
<b>Tool</b>		
	<b>Item no.: 210-647</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-647">www.wago.com/210-647</a>
	<b>Item no.: 210-648</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short	<a href="http://www.wago.com/210-648">www.wago.com/210-648</a>
	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
<b>Ferrule</b>		
	<b>Item no.: 216-241</b> 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	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
	<b>Item no.: 216-242</b> 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	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
	<b>Item no.: 216-243</b> 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	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
<b>Marking accessories</b>		
	<b>Item no.: 2009-110</b> Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
	<b>Item no.: 2009-113</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	<a href="http://www.wago.com/2009-113">www.wago.com/2009-113</a>
	<b>Item no.: 2009-113/000-002</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow	<a href="http://www.wago.com/2009-113/000-002">www.wago.com/2009-113/000-002</a>
	<b>Item no.: 2009-113/000-005</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red	<a href="http://www.wago.com/2009-113/000-005">www.wago.com/2009-113/000-005</a>
	<b>Item no.: 2009-113/000-006</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue	<a href="http://www.wago.com/2009-113/000-006">www.wago.com/2009-113/000-006</a>
	<b>Item no.: 2009-113/000-007</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray	<a href="http://www.wago.com/2009-113/000-007">www.wago.com/2009-113/000-007</a>
	<b>Item no.: 2009-113/000-012</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange	<a href="http://www.wago.com/2009-113/000-012">www.wago.com/2009-113/000-012</a>

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

	<b>Item no.: 2009-113/000-017</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green	<a href="http://www.wago.com/2009-113/000-017">www.wago.com/2009-113/000-017</a>
	<b>Item no.: 2009-113/000-023</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green	<a href="http://www.wago.com/2009-113/000-023">www.wago.com/2009-113/000-023</a>
	<b>Item no.: 2009-113/000-024</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet	<a href="http://www.wago.com/2009-113/000-024">www.wago.com/2009-113/000-024</a>
	<b>Item no.: 2009-191</b> Group marker carrier	<a href="http://www.wago.com/2009-191">www.wago.com/2009-191</a>
	<b>Item no.: 793-3501</b> WMB marking card; as card; plain; snap-on type; white	<a href="http://www.wago.com/793-3501">www.wago.com/793-3501</a>
<b>Jumpers</b>		
	<b>Item no.: 2000-402</b> Jumper; 2-way; insulated; light gray	<a href="http://www.wago.com/2000-402">www.wago.com/2000-402</a>
	<b>Item no.: 2000-402/000-005</b> Jumper; 2-way; insulated; red	<a href="http://www.wago.com/2000-402/000-005">www.wago.com/2000-402/000-005</a>
	<b>Item no.: 2000-402/000-006</b> Jumper; 2-way; insulated; blue	<a href="http://www.wago.com/2000-402/000-006">www.wago.com/2000-402/000-006</a>
	<b>Item no.: 2000-402/000-018</b> Jumper; 2-way; insulated; yellow-green	<a href="http://www.wago.com/2000-402/000-018">www.wago.com/2000-402/000-018</a>
	<b>Item no.: 2000-403</b> Jumper; 3-way; insulated; light gray	<a href="http://www.wago.com/2000-403">www.wago.com/2000-403</a>
	<b>Item no.: 2000-403/000-005</b> Jumper; 3-way; insulated; red	<a href="http://www.wago.com/2000-403/000-005">www.wago.com/2000-403/000-005</a>
	<b>Item no.: 2000-403/000-006</b> Jumper; 3-way; insulated; blue	<a href="http://www.wago.com/2000-403/000-006">www.wago.com/2000-403/000-006</a>
	<b>Item no.: 2000-404</b> Jumper; 4-way; insulated; light gray	<a href="http://www.wago.com/2000-404">www.wago.com/2000-404</a>
	<b>Item no.: 2000-404/000-005</b> Jumper; 4-way; insulated; red	<a href="http://www.wago.com/2000-404/000-005">www.wago.com/2000-404/000-005</a>

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



**Item no.: 2000-404/000-006**  
Jumper; 4-way; insulated; blue

[www.wago.com/2000-404/000-006](http://www.wago.com/2000-404/000-006)



**Item no.: 2000-405**  
Jumper; 5-way; insulated; light gray

[www.wago.com/2000-405](http://www.wago.com/2000-405)



**Item no.: 2000-405/000-005**  
Jumper; 5-way; insulated; red

[www.wago.com/2000-405/000-005](http://www.wago.com/2000-405/000-005)



**Item no.: 2000-405/000-006**  
Jumper; 5-way; insulated; blue

[www.wago.com/2000-405/000-006](http://www.wago.com/2000-405/000-006)



**Item no.: 2000-405/011-000**  
Star point jumper; 3-way; insulated; light gray

[www.wago.com/2000-405/011-000](http://www.wago.com/2000-405/011-000)



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

[www.wago.com/2000-406](http://www.wago.com/2000-406)



**Item no.: 2000-406/000-005**  
Jumper; 6-way; insulated; red

[www.wago.com/2000-406/000-005](http://www.wago.com/2000-406/000-005)



**Item no.: 2000-406/000-006**  
Jumper; 6-way; insulated; blue

[www.wago.com/2000-406/000-006](http://www.wago.com/2000-406/000-006)



**Item no.: 2000-406/020-000**  
Delta jumper; insulated; light gray

[www.wago.com/2000-406/020-000](http://www.wago.com/2000-406/020-000)



**Item no.: 2000-407**  
Jumper; 7-way; insulated; light gray

[www.wago.com/2000-407](http://www.wago.com/2000-407)



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

[www.wago.com/2000-407/000-005](http://www.wago.com/2000-407/000-005)



**Item no.: 2000-407/000-006**  
Jumper; 7-way; insulated; blue

[www.wago.com/2000-407/000-006](http://www.wago.com/2000-407/000-006)



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

[www.wago.com/2000-408](http://www.wago.com/2000-408)



**Item no.: 2000-408/000-005**  
Jumper; 8-way; insulated; red

[www.wago.com/2000-408/000-005](http://www.wago.com/2000-408/000-005)


















**Item no.: 2000-408/000-006**  
Jumper; 8-way; insulated; blue

[www.wago.com/2000-408/000-006](http://www.wago.com/2000-408/000-006)

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






	<b>Item no.: 2000-409</b> Jumper; 9-way; insulated; light gray	<a href="http://www.wago.com/2000-409">www.wago.com/2000-409</a>
	<b>Item no.: 2000-409/000-005</b> Jumper; 9-way; insulated; red	<a href="http://www.wago.com/2000-409/000-005">www.wago.com/2000-409/000-005</a>
	<b>Item no.: 2000-409/000-006</b> Jumper; 9-way; insulated; blue	<a href="http://www.wago.com/2000-409/000-006">www.wago.com/2000-409/000-006</a>
	<b>Item no.: 2000-410</b> Jumper; 10-way; insulated; light gray	<a href="http://www.wago.com/2000-410">www.wago.com/2000-410</a>
	<b>Item no.: 2000-410/000-005</b> Jumper; 10-way; insulated; red	<a href="http://www.wago.com/2000-410/000-005">www.wago.com/2000-410/000-005</a>
	<b>Item no.: 2000-410/000-006</b> Jumper; 10-way; insulated; blue	<a href="http://www.wago.com/2000-410/000-006">www.wago.com/2000-410/000-006</a>
	<b>Item no.: 2000-433</b> Jumper; from 1 to 3; insulated; light gray	<a href="http://www.wago.com/2000-433">www.wago.com/2000-433</a>
	<b>Item no.: 2000-433/000-005</b> Jumper; from 1 to 3; insulated; red	<a href="http://www.wago.com/2000-433/000-005">www.wago.com/2000-433/000-005</a>
	<b>Item no.: 2000-433/000-006</b> Jumper; from 1 to 3; insulated; blue	<a href="http://www.wago.com/2000-433/000-006">www.wago.com/2000-433/000-006</a>
	<b>Item no.: 2000-434</b> Jumper; from 1 to 4; insulated; light gray	<a href="http://www.wago.com/2000-434">www.wago.com/2000-434</a>
	<b>Item no.: 2000-435</b> Jumper; from 1 to 5; insulated; light gray	<a href="http://www.wago.com/2000-435">www.wago.com/2000-435</a>
	<b>Item no.: 2000-436</b> Jumper; from 1 to 6; insulated; light gray	<a href="http://www.wago.com/2000-436">www.wago.com/2000-436</a>
	<b>Item no.: 2000-437</b> Jumper; from 1 to 7; insulated; light gray	<a href="http://www.wago.com/2000-437">www.wago.com/2000-437</a>
	<b>Item no.: 2000-438</b> Jumper; from 1 to 8; insulated; light gray	<a href="http://www.wago.com/2000-438">www.wago.com/2000-438</a>
	<b>Item no.: 2000-439</b> Jumper; from 1 to 9; insulated; light gray	<a href="http://www.wago.com/2000-439">www.wago.com/2000-439</a>
	<b>Item no.: 2000-440</b> Jumper; from 1 to 10; insulated; light gray	<a href="http://www.wago.com/2000-440">www.wago.com/2000-440</a>

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



## Testing and measuring

	<b>Item no.: 2009-174</b> Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray	<a href="http://www.wago.com/2009-174">www.wago.com/2009-174</a>
	<b>Item no.: 2009-182</b> Testing tap; for max. 2.5 mm <sup>2</sup> ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray	<a href="http://www.wago.com/2009-182">www.wago.com/2009-182</a>
	<b>Item no.: 210-136</b> Test plug; 2 mm Ø; with 500 mm cable; red	<a href="http://www.wago.com/210-136">www.wago.com/210-136</a>

## Downloads

### Documentation

#### Additional Information

Technical explanations	3 Apr 2019	pdf 2.2 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 2050-324	URL	Download
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### CAE data

ZUKEN Portal 2050-324	URL	Download
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EPLAN Data Portal 2050-324	URL	Download
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	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2050-324	URL	Download
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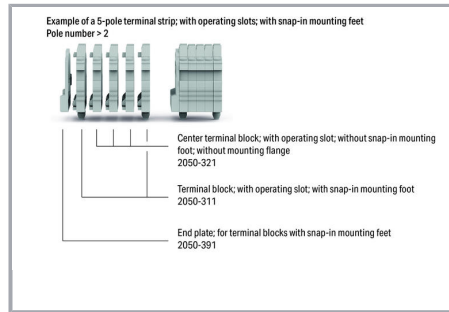
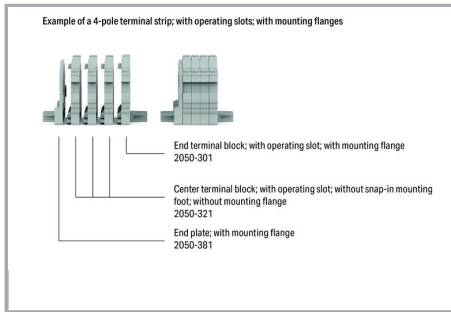
2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>; with test port; side and center marking; Center terminal block without snap-in mounting foot, without mounting flange; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; blue

## Installation Notes

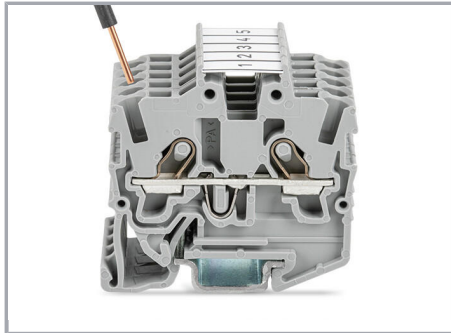
Subject to changes. Please also observe the further product documentation!

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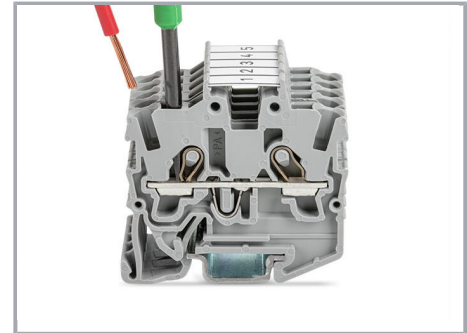
### Conductor termination



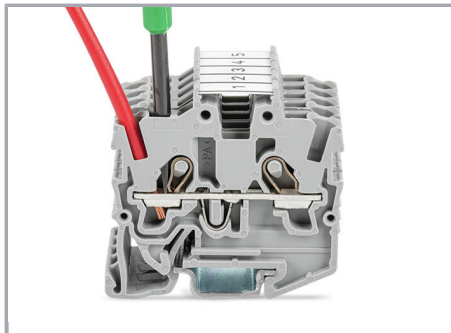
Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.



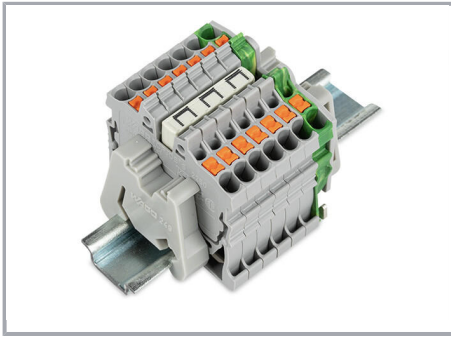
Insert fine-stranded conductors via operating tool.



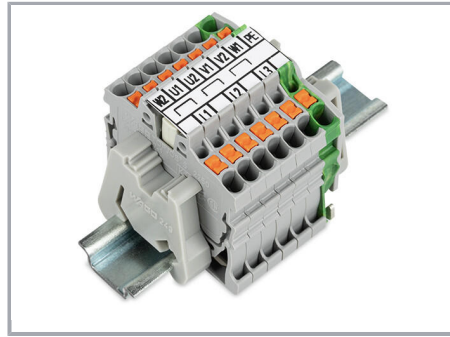
Remove all conductors via operating tool.

### Commoning

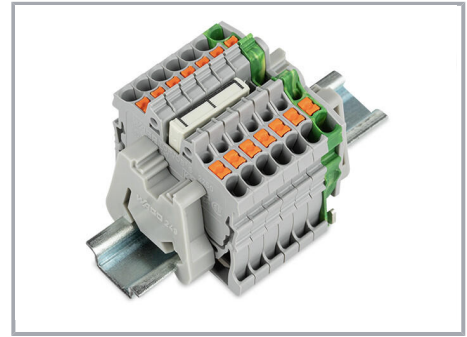
Subject to changes. Please also observe the further product documentation!



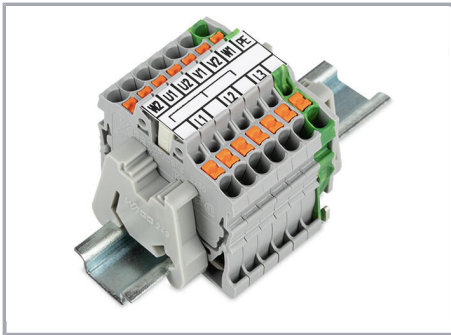
Insert a jumper (delta jumper) and push down until it hits the backstop (picture shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (picture shows terminal blocks with push-buttons)

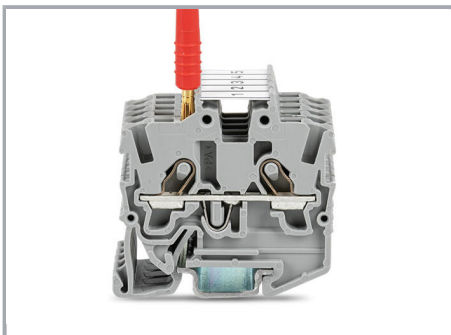


Insert a jumper (star point jumper) and push down until it hits the backstop (picture shows terminal blocks with push-buttons).



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

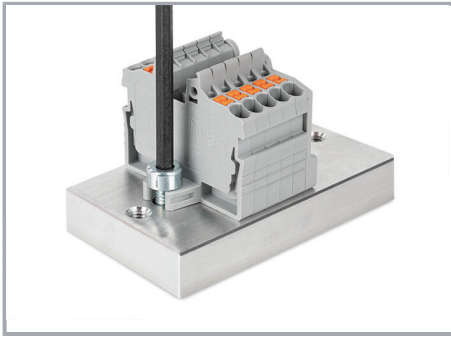
### Testing



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

### Installation

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

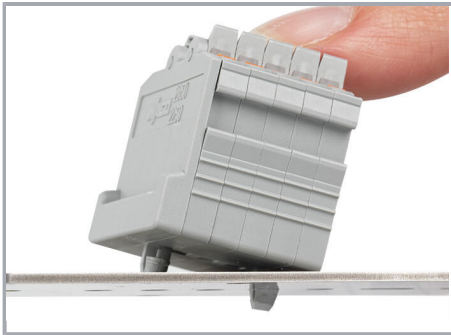


Mounting and securing a terminal strip directly to the plate via screw-type flanges (picture shows terminal blocks with push-buttons).



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

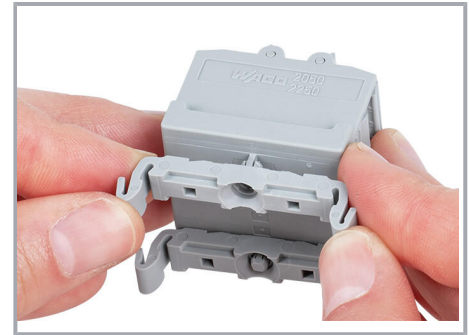
### Installation



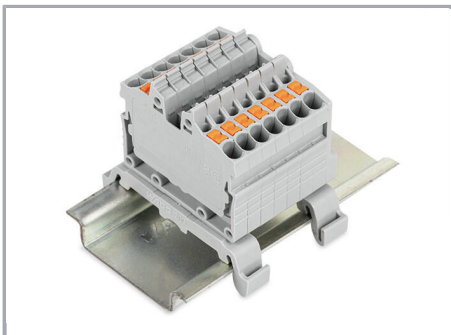
Mounting a terminal strip with snap-in feet into holes.



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



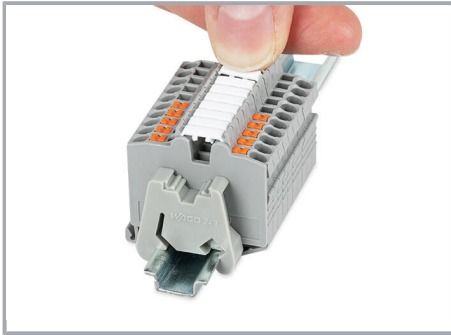
Terminal strip; with snap-in mounting feet  
Snapping a mounting foot (209-120)  
(Distance between mounting feet: approx. 20 ... 25 mm)



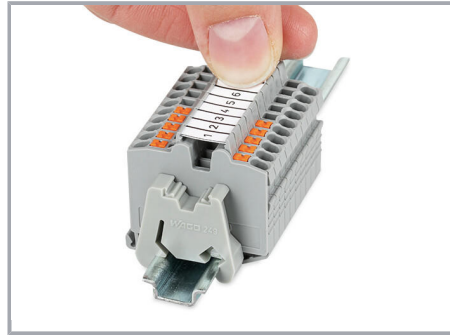
Terminal strip; with snap-in mounting feet; for DIN-35 rail (209-120 Mounting Foot) (picture shows terminal blocks with push-buttons)

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

## Marking



Snapping a WMB marking strip into a marker slot.



Snapping a marking strip (2009-110) into a marker slot.

## 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.

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