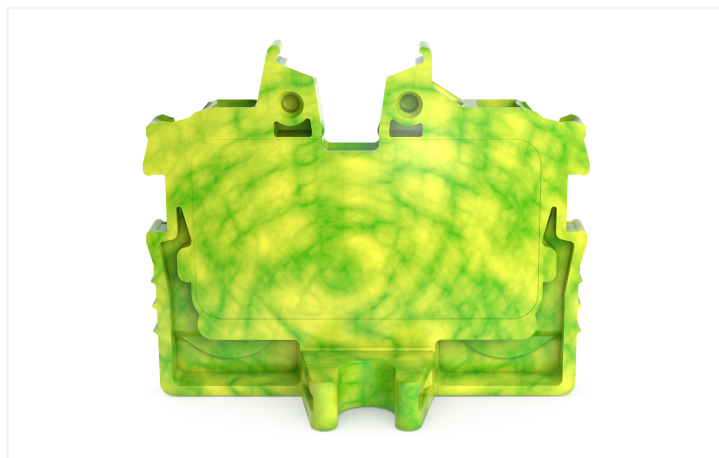


# Data Sheet | Item Number: 2050-307

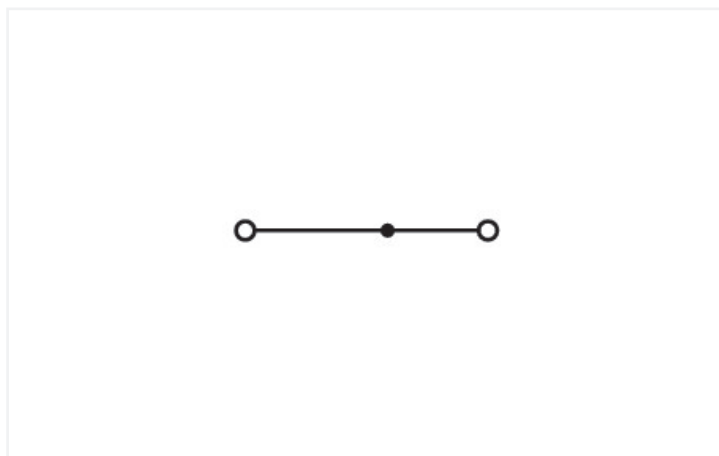
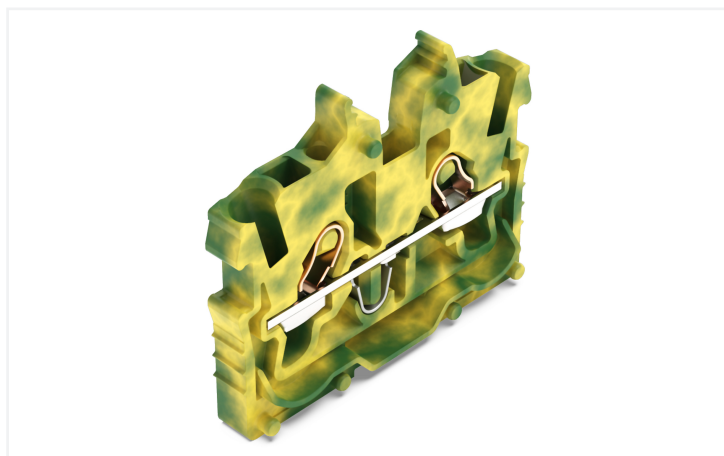
2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>; End terminal block with mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; green-yellow



<https://www.wago.com/2050-307>

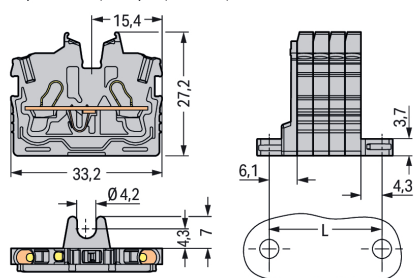


Color: ■ green-yellow



Similar to illustration

Modular Terminal Blocks and Terminal Strips with Mounting Flanges  
L = (Pole no. x 3,5 mm) + 4,3 mm + 6,1 mm



Through terminal block, 2050 Series, operating tool

This through terminal block (item number 2050-307) is designed for quick and easy connections. Ensure that the strip lengths are between 9 and 11 mm when connecting conductors to this through terminal block. Whether for industrial or building applications, you can use our through terminal blocks

to connect electrical conductors quickly and safely. We offer variants for both classic through-wiring and potential distribution. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. This through terminal block is suitable for conductor cross sections ranging from 0.14 mm<sup>2</sup> to 1.5 mm<sup>2</sup>.

An operating tool is used to operate this mini rail-mount terminal block. Our TOPJOB® S rail-mount terminal blocks guarantee reliable 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. 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 impulse withstand voltage	6 kV	-	-
Rated current	13.5 A	-	-
Current at conductor cross-section (max.) mm <sup>2</sup>	17.5 A	-	-

### Ex information

Reference to hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
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 <sub>N</sub> for power loss specification	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

### General information

Wiring direction	Front-entry wiring
------------------	--------------------

### 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 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 ... 1 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with uninsulated ferrule	0.14 ... 1 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 1 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 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	Mounting flange
Marking level	Center/side marking

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	green-yellow
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.05 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	IN
GTIN	4055143965125
Customs tariff number	85369010000

### Product Classification

UNSPSC	39121410
ETIM 9.0	EC001284
ETIM 10.0	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

#### General approvals

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 marine applications**



Approval	Standard	Certificate Name
DNV DNV GL SE	-	TAE00003JT

**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 2050-307 <a href="#">↓</a>

**CAD/CAE-Data**

CAD data
2D/3D Models 2050-307 <a href="#">↓</a>

CAE data
EPLAN Data Portal 2050-307 <a href="#">↓</a>
WSCAD Universe 2050-307 <a href="#">↓</a>
ZUKEN Portal 2050-307 <a href="#">↓</a>

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Through terminal block



**Item No.:** [2050-327](#)

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

## 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



**Item No.:** [216-241](#)

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



**Item No.:** [216-242](#)

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



**Item No.:** [216-243](#)

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

### 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



[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



[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

1.3.4 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; 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

1.3.4.3 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 mm<sup>2</sup>; insulated; 110 mm long; gray



**Item No.: 2009-406**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray



**Item No.: 2009-402**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray

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; red



**Item No.: 2009-182**  
Testing tap; for max. 2.5 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

### 1.3.8 Tool

#### 1.3.8.1 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

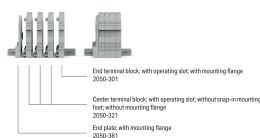
**Item No.: 210-647**

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

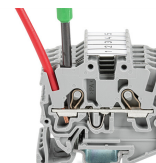
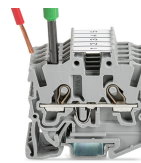
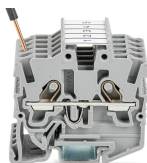
## Installation Notes

### Installation

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



## Conductor termination



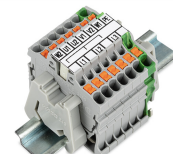
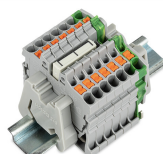
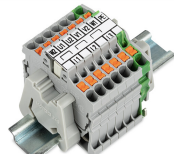
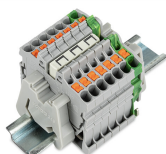
Insert solid conductors via push-in termination.

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).

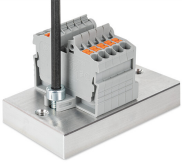
Marking strip (Item No. 2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

## Testing

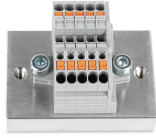


Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

## 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.