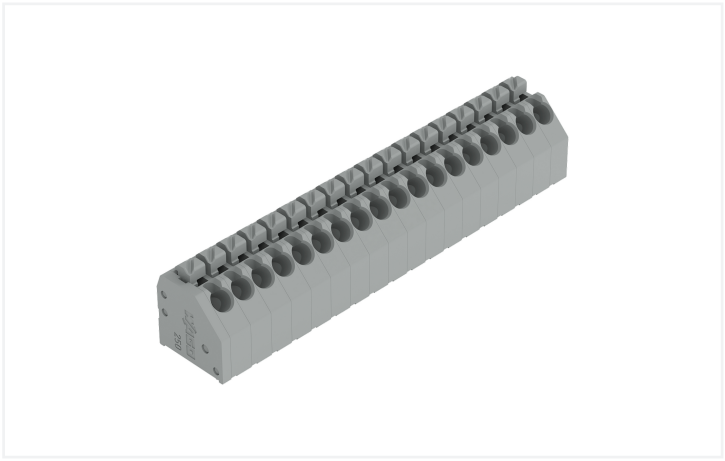
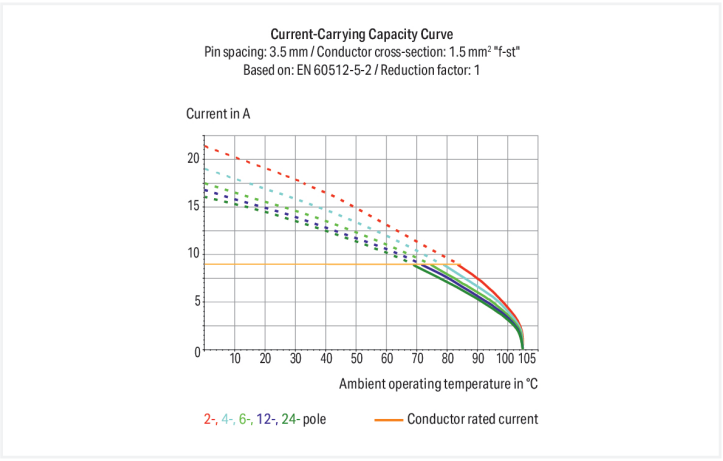
# Data Sheet | Item Number: 250-103/000-006

PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; Push-in CAGE CLAMP®; blue

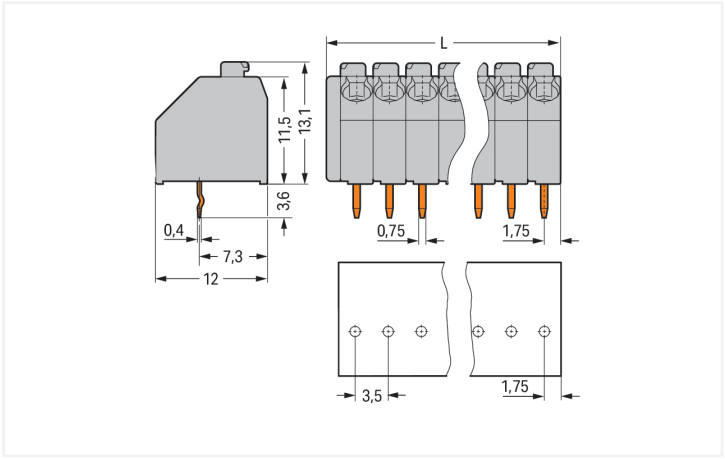
https://www.wago.com/250-103/000-006






Color: blue

Similar to illustration




Dimensions in mm
L = (pole no. x pin spacing) + 1.5 mm

PCB terminal block, 250 Series, push-button

This PCB terminal block (item number 250-103/000-006) is designed to connect conductors quickly and easily. You can rely on proven safety with these PCB terminal blocks, perfect for a wide variety of applications when designing your devices. Ensure that the strip lengths are between 8.5 and 9.5 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. The item's dimensions are (12 x 16.7 x 12) mm (width x height x depth). This PCB terminal block is suitable for conductor cross-sections ranging from 0.2 mm² to 1.5 mm².

Push-in CAGE CLAMP® spring pressure connection – for reliable installations instead of time-consuming screw connections

The contact surface is tin-coated This PCB terminal block is operated with a push-button. THT is used to assemble the PCB terminal block. Insert the conductor at an angle of 45°..

- Pin spacing: 3.5 mm
- Compact sizes
- Actuation via push-button
- Reliable soldering thanks to THT
- Safe and fast installation

## Notes

| | |
|---|---|
| General safety information | **NOTICE: Observe installation and safety instructions!**<br><br>**To be sold only with installation instructions!** |
| Variants: | Other pole numbers<br>Other colors<br>Mixed-color PCB connector strips<br>Terminal strips with spacers<br>Direct marking<br>Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/. |

## Electrical data

| Ratings per | IEC/EN 60664-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 160 V | 160 V | 320 V |
| Rated impulse withstand voltage | 2.5 kV | 2.5 kV | 2.5 kV |
| Rated current | 8 A | 8 A | 8 A |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 5 A | - | 5 A |

| Approvals per | CSA | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 10 A | - | 10 A |

## Connection Data

| | |
|---|---|
| Clamping units | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels | 1 |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-button |
| Solid conductor | 0.2 … 1.5 mm² / 24 … 16 AWG |
| Fine-stranded conductor | 0.2 … 1.5 mm² / 24 … 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 … 1 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 … 1 mm² |
| Strip length | 8.5 … 9.5 mm / 0.33 … 0.37 inches |
| Conductor connection direction to PCB | 45 ° |
| Pole number | 3 |

## Physical data

| | |
|---|---|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 12 mm / 0.472 inches |
| Height | 16.7 mm / 0.657 inches |
| Height from the surface | 13.1 mm / 0.516 inches |
| Depth | 12 mm / 0.472 inches |
| Solder pin length | 3.4 mm |
| Solder pin dimensions | 0.4 x 0.75 mm |
| Drilled hole diameter | 1.1 $^{(+0.1)}$ mm |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## PCB contact

| | |
|---|---|
| PCB contact | THT |
| Solder pin arrangement | over the entire terminal strip (in-line) |
| Number of solder pins per potential | 1 |

## 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 |
| Clamping spring material | Copper alloy |
| Contact Plating | Tin |
| Fire load | 0.029 MJ |
| Weight | 1.5 g |

## Environmental requirements

| | |
|---|---|
| Limit temperature range | -60 … +105 °C |

## Commercial data

| | |
|---|---|
| Product Group | 4 (Printed Circuit Connectors) |
| PU (SPU) | 400 (100) pcs |
| Packaging type | Box |
| Country of origin | CH |
| GTIN | 4044918647120 |
| Customs tariff number | 85369010000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121409 |
| eCl@ss 10.0 | 27-44-04-01 |
| eCl@ss 9.0 | 27-44-04-01 |
| ETIM 9.0 | EC002643 |
| ETIM 10.0 | EC002643 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL-8036 |
| CSA<br>DEKRA Certification B.V. | C22.2 | 1132097 |
| DEKRA<br>DEKRA Certification B.V. | EN 60947-7-4 | 71-141963 |

### General approvals

| | | |
|---|---|---|
| UL<br>UL International Germany GmbH | UL 1059 | E45172 |


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## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance
250-103/000-006

### Documentation

**Safety Data Sheet**

Handling and Safety Instructions of PCB Terminal Blocks with Push-In Cage Clamp — pdf 393.90 KB

**Additional Information**

Technical Section — 03.04.2019 — pdf 2027.26 KB

### CAD/CAE-Data

**CAD data**

2D/3D Models
250-103/000-006

**CAE data**

EPLAN Data Portal
250-103/000-006

ZUKEN Portal
250-103/000-006

**PCB Design**

Symbol and Footprint via SamacSys
250-103/000-006

Symbol and Footprint via Ultra Librarian
250-103/000-006

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Marking

##### 1.1.1.1 Marking strip



Item No.: 210-332/350-202
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/350-204
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/350-206
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white


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### 1.1.2 Test and measurement

#### 1.1.2.1 Testing accessories



Item No.: 735-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

### 1.1.3 Tool

#### 1.1.3.1 Operating tool



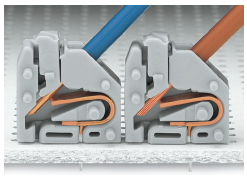
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



Item No.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

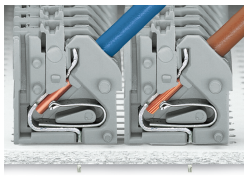
## Installation Notes

### Conductor termination



Inserting solid conductors via push-in termination.
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

### Conductor termination

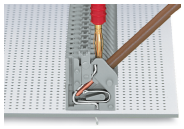


Space-saving wiring, 250 Series – 5 mm pin spacing.

### Testing



Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 … 3.5 mm pin spacing.



Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.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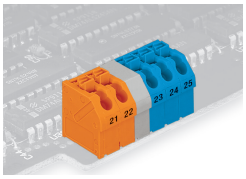
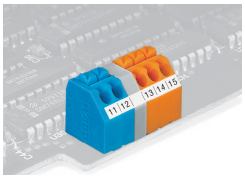
## Marking




Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.




Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.