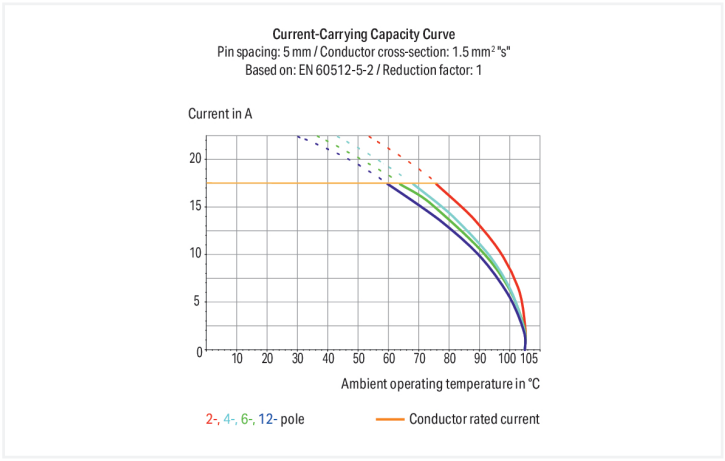
# Data Sheet | Item Number: 250-605/000-006

PCB terminal block; push-button; 1.5 mm²; Pin spacing 7.5 mm; 5-pole; Push-in CAGE CLAMP®; blue

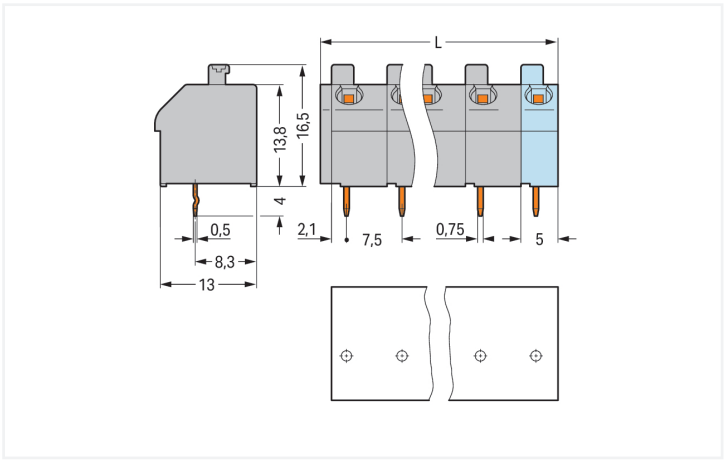
https://www.wago.com/250-605/000-006






Color: blue

Similar to illustration




Dimensions in mm
L = (pole no. – 1) x pin spacing + 5 mm + 1.5 mm

PCB terminal block, 250 Series, blue

This PCB terminal block (item number 250-605/000-006) streamlines wire connections, making them both quick and easy. It is a universal connector that can be used practically anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Ensure that the strip lengths are between 9 and 10 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Both solid and fine-stranded conductors with ferrules can be pushed in without needing to use any tools—all thanks to its pluggable design. The dimensions are (36.5 x 20.5 x 13) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is designed for conductor cross sections ranging from 0.5 mm² to 1.5 mm².

Perfect termination for all conductor types thanks to Push-in CAGE CLAMP®

Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. THT is used to assemble the PCB terminal block. Insert the conductor into the board at an angle of 45°..

- Pin spacing: 7.5 mm
- Number of poles: 5
- Soldering via THT
- Safe and fast installation

- The right solution for every wiring task

## 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>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 | 500 V | 630 V | 1000 V |
| Rated impulse withstand voltage | 6 kV | 6 kV | 6 kV |
| Rated current | 17.5 A | 17.5 A | 17.5 A |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 10 A | - | 10 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 | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels | 1 |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-button |
| Solid conductor | 0.5 … 1.5 mm² / 20 … 14 AWG |
| Fine-stranded conductor | 0.75 … 1.5 mm² / 18 … 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.5 … 1 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 … 1 mm² |
| Note (conductor cross-section) | Fine-stranded conductor 0.75 … 1.5 mm² (I max. 4 A)<br>Fine-stranded conductor 0.5 mm² (I max. 2 A) |
| Strip length | 9 … 10 mm / 0.35 … 0.39 inches |
| Conductor connection direction to PCB | 45 ° |
| Pole number | 5 |

## Physical data

| | |
|---|---|
| Pin spacing | 7.5 mm / 0.295 inches |
| Width | 36.5 mm / 1.437 inches |
| Height | 20.5 mm / 0.807 inches |
| Height from the surface | 16.5 mm / 0.65 inches |
| Depth | 13 mm / 0.512 inches |
| Solder pin length | 4 mm |
| Solder pin dimensions | 0.5 x 0.75 mm |
| Drilled hole diameter | 1.2 $^{(+0.1)}$ 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 | Chrome-nickel spring steel (CrNi) |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact Plating | Tin |
| Fire load | 0.125 MJ |
| Weight | 6 g |

## Environmental requirements

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

## Commercial data

| | |
|---|---|
| Product Group | 4 (Printed Circuit Connectors) |
| PU (SPU) | 120 (30) pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4044918304306 |
| 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 |
|---|---|---|
| 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
250-605/000-006

### 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
250-605/000-006

**CAE data**

EPLAN Data Portal
250-605/000-006

ZUKEN Portal
250-605/000-006

**PCB Design**

Symbol and Footprint via SamacSys
250-605/000-006

Symbol and Footprint via Ultra Librarian
250-605/000-006

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Ferrule

##### 1.1.1.1 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.: 216-141
Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



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.: 216-142
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



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



Item No.: 216-143
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92


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### 1.1.2 Marking

#### 1.1.2.1 Marking strip



Item No.: 210-332/750-020
Marking strips; as a DIN A4 sheet; MARKED; 1-20 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

### 1.1.3 Test and measurement

#### 1.1.3.1 Testing accessories



Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

### 1.1.4 Tool

#### 1.1.4.1 Operating tool



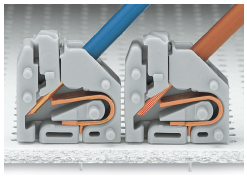
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



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

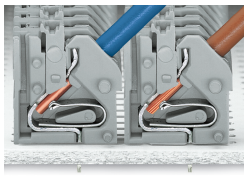
## Installation Notes

### 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.

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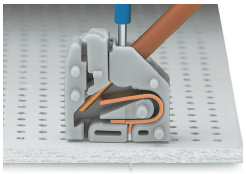
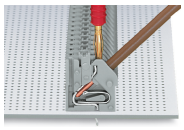
## Testing

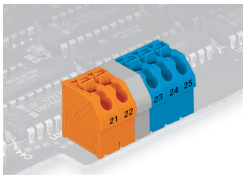


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 … 3.5 mm pin spacing.

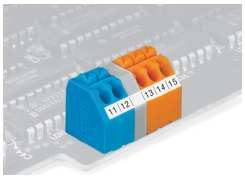


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

## 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.