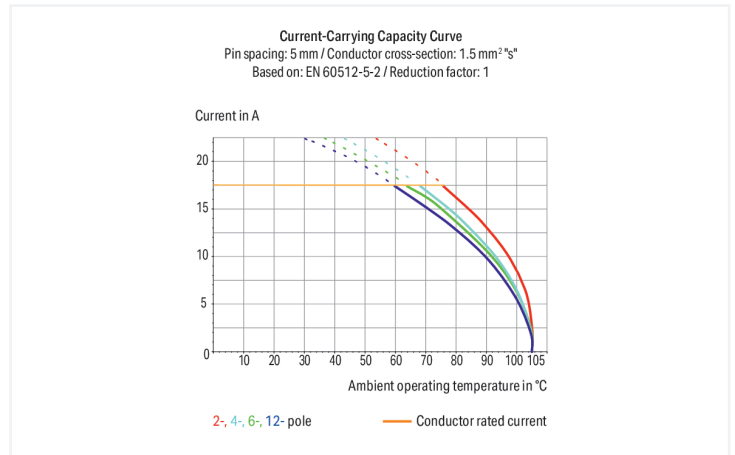


## Data Sheet | Item Number: 250-602/000-012

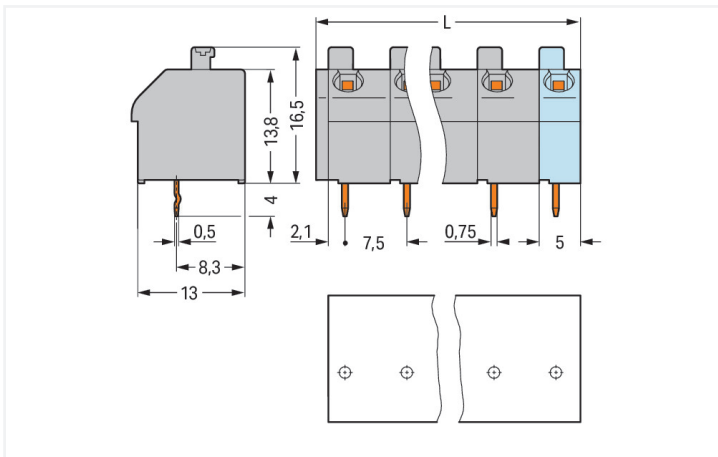
PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 7.5 mm; 2-pole; Push-in CAGE CLAMP®; orange

<https://www.wago.com/250-602/000-012>



Color: ■ orange

Similar to illustration



Dimensions in mm

L = (pole no. - 1) x pin spacing + 5 mm + 1.5 mm

PCB terminal block, 250 Series, with 7.5 mm pin spacing

Our PCB terminal block (item number 250-602/000-012) makes connecting wires quick and easy. It is a universal connector that can be used practically anywhere, e.g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors should only be connected to this PCB terminal block if their strip length is between 9 and 10 mm. 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. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. The item's dimensions are (14 x 20.5 x 13) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.5 mm<sup>2</sup> to 1.5 mm<sup>2</sup>. The contact surface is coated with tin. A push-button is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. Insert the conductor at a 45° angle.

## Notes

|           |  |
|-----------|--|
| 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 <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> . |
|-----------|--|

## Electrical data

| Ratings per                     | IEC/EN 60664-1 |        |        | Approvals per | UL 1059 |   |       |
|---------------------------------|----------------|--------|--------|---------------|---------|---|-------|
| Overvoltage category            | III            | III    | II     | Use group     | B       | C | D     |
| Pollution degree                | 3              | 2      | 2      | Rated voltage | 300 V   | - | 300 V |
| Nominal voltage                 | 500 V          | 630 V  | 1000 V | Rated current | 10 A    | - | 10 A  |
| Rated impulse withstand voltage | 6 kV           | 6 kV   | 6 kV   |               |         |   |       |
| Rated current                   | 17.5 A         | 17.5 A | 17.5 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             | 2 | <b>Connection 1</b>                               |   |
| Total number of potentials | 2 | Connection technology                             | Push-in CAGE CLAMP®   |
| Number of connection types | 1 | Actuation type                                    | Push-button   |
| Number of levels           | 1 | Solid conductor                                   | 0.5 ... 1.5 mm <sup>2</sup> / 20 ... 14 AWG   |
|                            |   | Fine-stranded conductor                           | 0.75 ... 1.5 mm <sup>2</sup> / 18 ... 16 AWG  |
|                            |   | Fine-stranded conductor; with insulated ferrule   | 0.5 ... 1 mm <sup>2</sup>   |
|                            |   | Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 1 mm <sup>2</sup>   |
|                            |   | Note (conductor cross-section)                    | Fine-stranded conductor 0.75 ... 1.5 mm <sup>2</sup> (I max. 4 A)<br>Fine-stranded conductor 0.5 mm <sup>2</sup> (I max. 2 A) |
|                            |   | Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches  |
|                            |   | Conductor connection direction to PCB             | 45°   |
|                            |   | Pole number                                       | 2   |

## Physical data

|                         |                          |
|-------------------------|--------------------------|
| Pin spacing             | 7.5 mm / 0.295 inches    |
| Width                   | 14 mm / 0.551 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            |
| !                       | 1.2 <sup>(±0.1)</sup> mm |

### 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)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | orange   |
| 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 <sub>cu</sub> )                                   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.056 MJ   |
| Weight                             | 2.4 g  |

### Environmental requirements

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

### Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 340 (85) pcs                   |
| Packaging type        | Box                            |
| Country of origin     | PL                             |
| GTIN                  | 4044918634809                  |
| 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          |
| UL<br>UL International Germany<br>GmbH | UL 1059  | E45172           |

## Downloads

### Environmental Product Compliance

|   |   |
|---|---|
| Compliance Search                                   |   |
| Environmental Product Compliance<br>250-602/000-012 | ↓ |

## Documentation

|                        |            |                   |   |
|------------------------|------------|-------------------|---|
| Additional Information |            |                   |   |
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | ↓ |

## CAD/CAE-Data

|                                 |   |
|---------------------------------|---|
| CAD data                        |   |
| 2D/3D Models<br>250-602/000-012 | ↓ |

|                                      |   |
|--------------------------------------|---|
| CAE data                             |   |
| EPLAN Data Portal<br>250-602/000-012 | ↓ |

|                                 |   |
|---------------------------------|---|
| ZUKEN Portal<br>250-602/000-012 | ↓ |
|---------------------------------|---|

## PCB Design

|   |   |
|---|---|
| Symbol and Footprint<br>via SamacSys<br>250-602/000-012 | ↓ |
|---|---|

|  |   |
|--|---|
| Symbol and Footprint<br>via Ultra Librarian<br>250-602/000-012 | ↓ |
|--|---|

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Ferrule

##### 1.1.1.1 Ferrule

|   |   |   |   |
|---|---|---|---|
|   |   |   |   |
| <p><b>Item No.: 216-241</b><br/>                 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white</p> | <p><b>Item No.: 216-141</b><br/>                 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>    | <p><b>Item No.: 216-242</b><br/>                 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p> | <p><b>Item No.: 216-262</b><br/>                 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p> |
|   |   |   |   |
| <p><b>Item No.: 216-142</b><br/>                 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>       | <p><b>Item No.: 216-243</b><br/>                 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p> | <p><b>Item No.: 216-263</b><br/>                 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>     | <p><b>Item No.: 216-143</b><br/>                 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>          |

## 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

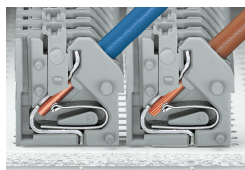
### Conductor termination



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.

## 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.