

# Data Sheet | Item Number: 250-208/000-012

PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 8-pole; Push-in CAGE CLAMP®; orange



<https://www.wago.com/250-208/000-012>



Color: ■ orange

Similar to illustration



Dimensions in mm

L = (pole no. x pin spacing) + 1.5 mm First solder pin, front right (red circle)

## PCB terminal block, 250 Series, with 3.5 mm pin spacing

Our PCB terminal block (item number 250-208/000-012) is the ideal way to connect conductors quickly and easily. 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. Strip lengths must be between 8.5 and 9.5 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product is highly versatile. 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. The item's dimensions are (29.5 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 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. The conductor is designed to be inserted at an angle of 45°.

## Notes

|                   |  |
|-------------------|--|
| Variants:<br><br> | 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 <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                 | 250 V          | 320 V  | 630 V  | Rated current | 8 A     | - | 5 A   |
| Rated impulse withstand voltage | 4 kV           | 2.5 kV | 2.5 kV |               |         |   |       |
| Rated current                   | 8 A            | 8 A    | 8 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             | 8 | <b>Connection 1</b>                               |   |
| Total number of potentials | 8 | Connection technology                             | Push-in CAGE CLAMP®                         |
| Number of connection types | 1 | Actuation type                                    | Push-button                                 |
| Number of levels           | 1 | Solid conductor                                   | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
|                            |   | Fine-stranded conductor                           | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
|                            |   | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1 mm <sup>2</sup>                  |
|                            |   | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1 mm <sup>2</sup>                  |
|                            |   | Strip length                                      | 8.5 ... 9.5 mm / 0.33 ... 0.37 inches       |
|                            |   | Conductor connection direction to PCB             | 45 °  |
|                            |   | Pole number                                       | 8   |

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 3.5 mm / 0.138 inches    |
| Width                                | 29.5 mm / 1.161 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 with tolerance | 1.1 <sup>(+0.1)</sup> mm |

### PCB contact

|                                     |  |
|-------------------------------------|--|
| PCB contact                         | THT  |
| Solder pin arrangement              | over the entire terminal strip (staggered) |
| 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           | Copper alloy   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.077 MJ   |
| Weight                             | 3.9 g  |

### Environmental requirements

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

### Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 160 (40) pcs                   |
| Packaging type        | Box                            |
| Country of origin     | CH                             |
| GTIN                  | 4044918648738                  |
| 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        |
| UL<br>UL International Germany<br>GmbH | UL 1977      | E45171           |

#### General approvals

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

**Downloads**

**Environmental Product Compliance**

|                                  |  |  |   |
|----------------------------------|--|--|---|
| <b>Compliance Search</b>         |  |  |   |
| Environmental Product Compliance |  |  | ↓ |
| 250-208/000-012                  |  |  |   |

**Documentation**

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

**CAD/CAE-Data**

|                 |  |  |   |
|-----------------|--|--|---|
| <b>CAD data</b> |  |  |   |
| 2D/3D Models    |  |  | ↓ |
| 250-208/000-012 |  |  |   |

|                   |  |  |   |
|-------------------|--|--|---|
| <b>CAE data</b>   |  |  |   |
| EPLAN Data Portal |  |  | ↓ |
| 250-208/000-012   |  |  |   |

|                 |  |  |   |
|-----------------|--|--|---|
| ZUKEN Portal    |  |  | ↓ |
| 250-208/000-012 |  |  |   |

**PCB Design**

|                                   |  |  |   |
|-----------------------------------|--|--|---|
| Symbol and Footprint via SamacSys |  |  | ↓ |
| 250-208/000-012                   |  |  |   |

|  |  |  |   |
|--|--|--|---|
| Symbol and Footprint via Ultra Librarian |  |  | ↓ |
| 250-208/000-012                          |  |  |   |

**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

## 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 0,5mm<sup>2</sup>

## 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

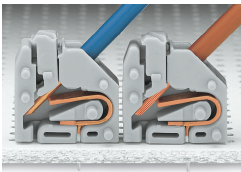


**Item No.: 210-657**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

## Installation Notes

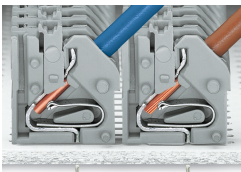
### Conductor termination



Inserting solid conductors via push-in termination.

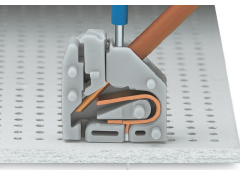
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

### Conductor termination

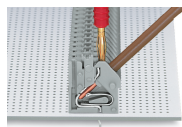


Space-saving wiring, 250 Series – 5 mm pin spacing.

## Testing

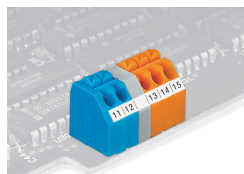
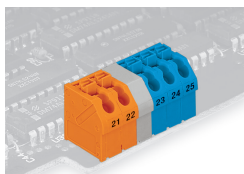


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.



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

## 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.