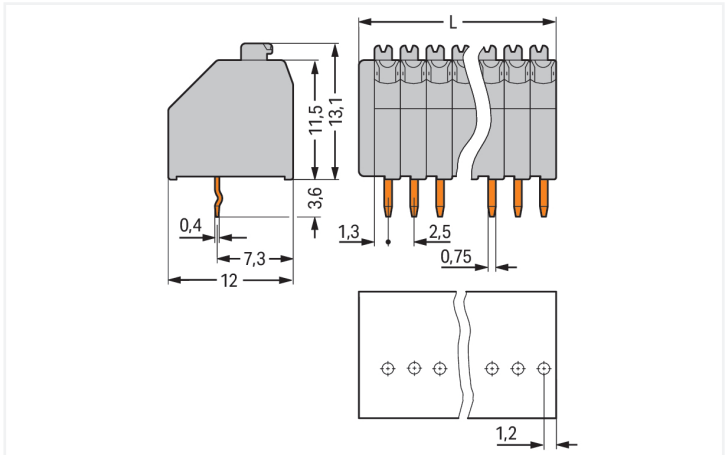
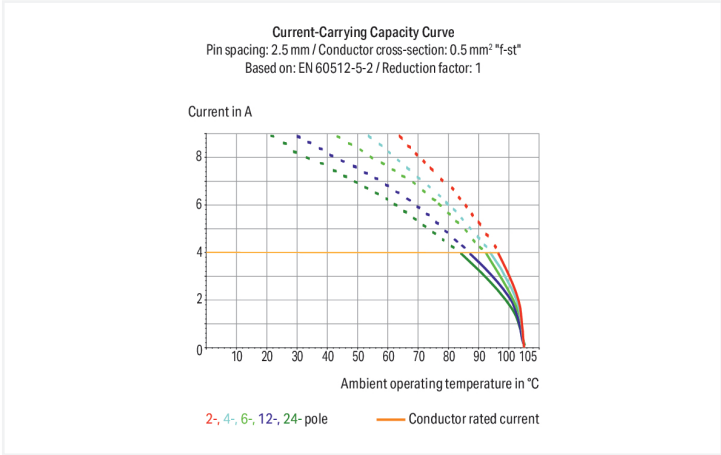


Color: ■ gray Similar to illustration



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



PCB terminal block, 250 Series, 45 °conductor entry to board

Our PCB terminal block (item number 250-322) is the ideal way to connect conductors quickly and easily. It is ideal for custom installations with different mounting types. Rated current and voltage are key factors to consider when choosing a PCB terminal block, as they indicate possible applications and uses. This product has a rated voltage of 160 V and a rated current of 4 A. Conductors can only be connected to this PCB terminal block if their strip length is between 8.5 mm and 9.5 mm. This product incorporates 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, offering a key advantage: 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 dimensions are 56.5 x 16.7 x 12 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 0.5 mm². It has one level. Twenty-two potentials can connect twenty-two poles using the twenty-two clamping points. The gray housing is made of polyamide (PA66) for insulation and the clamping spring is made of a Copper alloy. Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at an angle of 45°. The solder pins, which are 0.4 x 0.75 mm in cross-section and 3.6 mm long, are arranged over the entire terminal strip (in-line). There are one solder pin per potential.

| Notes | |
|-----------|--|
| Variants: | Other pole numbers Other colors Mixed-color PCB connector strips Terminal strips with spacers Direct marking 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 | 100 V | 160 V | 320 V | |
| Rated surge voltage | 2.5 kV | 2.5 kV | 2.5 kV | |
| Rated current | 4 A | 4 A | 4 A | |
| Approvals per | | CSA | | |
| Use group | B | C | D | |
| Rated voltage | 300 V | - | 300 V | |
| Rated current | 2 A | - | 2 A | |
| Approvals per | | UL 1059 | | |
| Use group | B | C | D | |
| Rated voltage | 300 V | - | 300 V | |
| Rated current | 5 A | - | 5 A | |

| Connection data | | |
|----------------------------|----|--|
| Clamping units | 22 | <div>Connection 1</div> <div>Connection technology</div> <div>Push-in CAGE CLAMP®</div> <div>Actuation type</div> <div>Push-button</div> <div>Solid conductor</div> <div>0.14 ... 0.5 mm² / 24 ... 20 AWG</div> <div>Fine-stranded conductor</div> <div>0.2 ... 0.5 mm² / 24 ... 20 AWG</div> <div>Conductor diameter</div> <div>0.4 ... 0.8 mm / 24 ... 20 AWG</div> <div>Strip length</div> <div>8.5 ... 9.5 mm / 0.33 ... 0.37 inches</div> <div>Conductor connection direction to PCB</div> <div>45 °</div> <div>Pole number</div> <div>22</div> |
| Total number of potentials | 22 | |
| Number of connection types | 1 | |
| Number of levels | 1 | |

| Physical data | |
|--------------------------------------|--------------------------|
| Pin spacing | 2.5 mm / 0.098 inches |
| Width | 56.5 mm / 2.224 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 | 3.6 mm |
| Solder pin dimensions | 0.4 x 0.75 mm |
| Drilled hole diameter with tolerance | 1.1 ^(+0.1) 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) | Information on material specifications can be found here |
| Color | gray |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Copper alloy |
| Contact Plating | Tin |
| Fire load | 0.182 MJ |
| Weight | 7.6 g |



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

| Commercial data | |
|-----------------------|--------------------------------|
| Product Group | 4 (Printed Circuit Connectors) |
| PU (SPU) | 80 (20) pcs |
| Packaging type | Box |
| Country of origin | CH |
| GTIN | 4050821573289 |
| 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 8.0 | EC002643 |
| ECCN | NO US CLASSIFICATION |

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

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|-------------------------------------|---------------|------------------|
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 1132097 |
| DEKRA DEKRA Certification B.V. | EN 60947-7-4 | 71-141963 |
| UL UL International Germany GmbH | UL 1059 | E45172 |

Downloads


Environmental Product Compliance


| Compliance Search | |
|--|--|
| Environmental Product Compliance 250-322 | |



Documentation

| Additional Information | | | |
|------------------------|------------|-------------------|---|
| Technical Section | 03.04.2019 | pdf 2027.26 KB |  |

CAD/CAE-Data

| CAD data |
|--|
| 2D/3D Models 250-322  |

| CAE data |
|--|
| ZUKEN Portal 250-322  |





| PCB Design |
|--|
| Symbol and Footprint via SamacSys 250-322  |
| Symbol and Footprint via Ultra Librarian 250-322  |

1 Compatible Products

1.1 Optional Accessories


1.1.1 Marking

1.1.1.1 Marking strip

| | | | |
|--|--|---|---|
|  |  |  |  |
| Item No.: 210-331/250-202 Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | Item No.: 210-331/250-207 Marking strips; as a DIN A4 sheet; MAR-KED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | Item No.: 210-331/250-204 Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | Item No.: 210-331/250-206 Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; 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 0,5mm² |

1.1.3 Tool

1.1.3.1 Operating tool

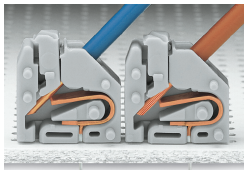


Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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

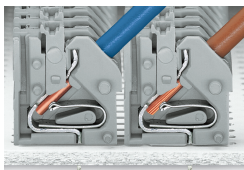
Installation Notes

Conductor termination



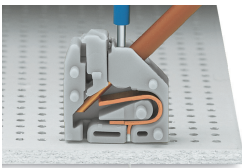
Inserting solid conductors via push-in termination.
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

Conductor termination

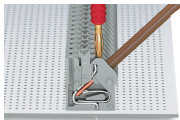


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

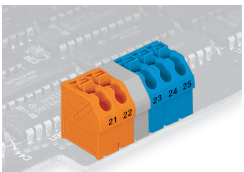


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

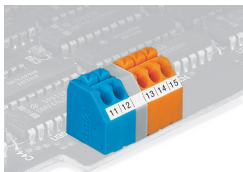


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

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.

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com