

## Data sheet | Item number: 250-408

PCB terminal block; Push-button; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 8-pole; Push-in CAGE CLAMP®



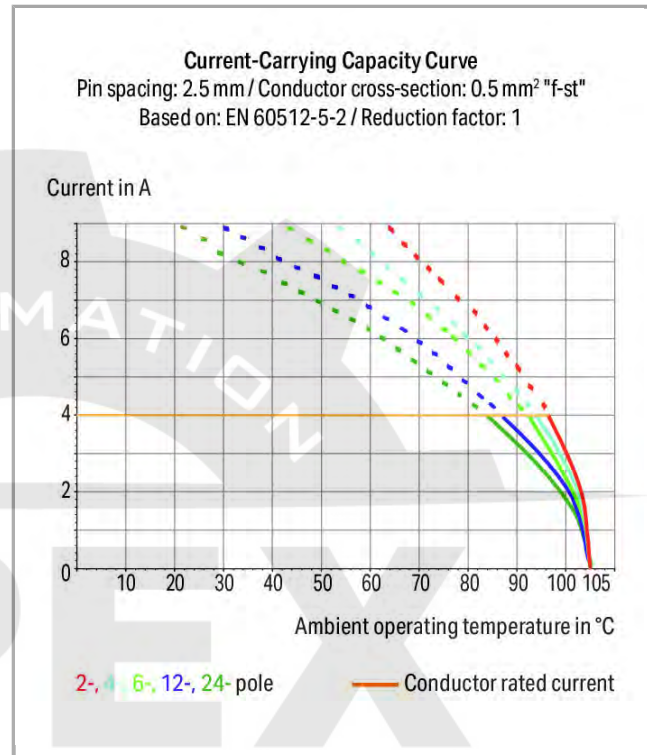
250-408

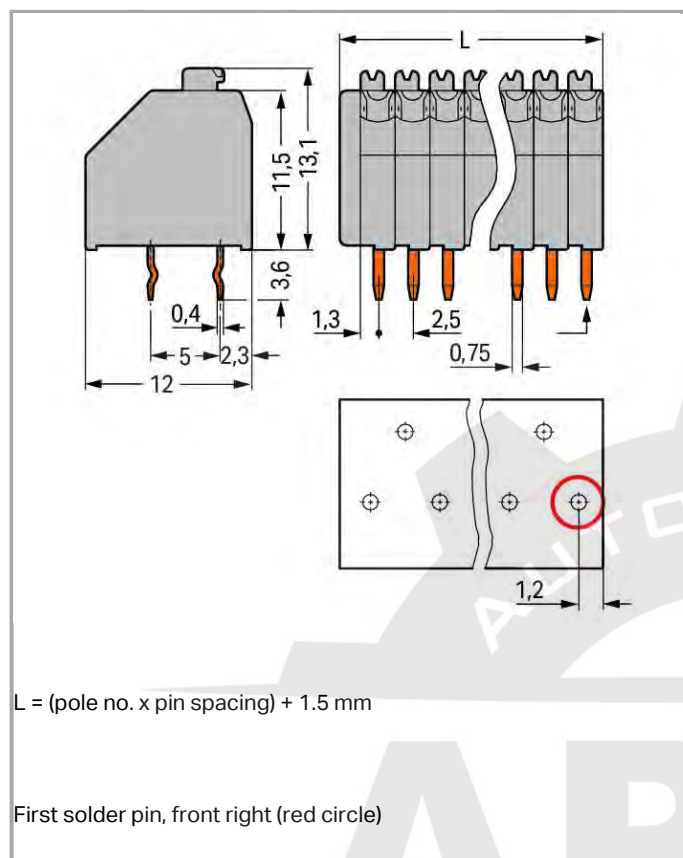


RoHS  
Compliant ✓

[BOMcheck.net](https://www.bomcheck.net)

Color: ■





### Item description

- Compact terminal strips with push-buttons
- Push-in termination for solid conductors
- Termination/removal of fine-stranded conductors via push-buttons
- 45° conductor entry angle provides easy, space-saving wiring
- Custom color combinations
- Terminal strips also available with spacers upon request

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 160 V  |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 4 A    |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 5 A   |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 5 A   |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 5 A   |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 5 A   |

### Connection data

|                                   |                                              |
|-----------------------------------|----------------------------------------------|
| Connection technology             | Push-in CAGE CLAMP®                          |
| Actuation type                    | Push-button                                  |
| Solid conductor                   | 0.14 ... 0.5 mm <sup>2</sup> / 24 ... 20 AWG |
| Fine-stranded conductor           | 0.2 ... 0.5 mm <sup>2</sup> / 24 ... 20 AWG  |
| Conductor diameter                | 0.4 ... 0.8 mm                               |
| Strip length                      | 8.5 ... 9.5 mm / 0.33 ... 0.37 inch          |
| Conductor entry angle to the PCB  | 45°                                          |
| No. of poles                      | 8                                            |
| Total number of connection points | 8                                            |
| Total number of potentials        | 8                                            |
| Number of connection types        | 1                                            |
| Number of levels                  | 1                                            |

### Geometrical Data

|                                   |                              |
|-----------------------------------|------------------------------|
| Pin spacing                       | 2.5 mm / 0.098 inch          |
| Width                             | 21.5 mm / 0.846 inch         |
| Height                            | 16.7 mm / 0.657 inch         |
| Height from the surface           | 13.1 mm / 0.516 inch         |
| Depth                             | 12 mm / 0.472 inch           |
| Solder pin length                 | 3.6 mm                       |
| Solder pin dimensions             | 0.4 x 0.75 mm                |
| Drilled hole diameter (tolerance) | 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

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | gray                                   |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Copper alloy                           |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.062 MJ                               |
| Weight                      | 2.973 g                                |

## Environmental Requirements

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

## Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | CH                  |
| GTIN               | 4044918642989       |
| Customs Tariff No. | 85369010000         |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                        | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 60947                 | NTR NL-7100      |
|  | CCA<br>DEKRA Certification B.V. | EN 60998                 | NTR NL-7449      |
|  | CCA<br>DEKRA Certification B.V. | EN 60998                 | 2188127.01       |
|  | CSA<br>DEKRA Certification B.V. | C22.2                    | 1132097          |

|                                                                                  |                                              |          |            |
|----------------------------------------------------------------------------------|----------------------------------------------|----------|------------|
|  | CSA<br>DEKRA Certification B.V.              | C22.2    | 1132097    |
|  | KEMA/KEUR<br>DEKRA Certification B.V.        | EN 60998 | 71-105258  |
|  | KEMA/KEUR<br>DEKRA Certification B.V.        | EN 60947 | 2160584.18 |
|  | VDE<br>VDE Prüf- und Zertifizierungsinstitut | EN 60998 | 40028888   |

#### Ship Approvals

| Logo                                                                               | Approval                                         | Additional Approval Text | Certificate name         |
|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|--------------------------|
|   | ABS<br>American Bureau of Shipping               | -                        | 14-<br>HG1241537-<br>PDA |
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z               |

#### UL-Approvals

| Logo                                                                               | Approval                            | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Germany GmbH | UL 1059                  | E45172<br>sec. 6 |
|  | UL<br>UL International Germany GmbH | UL 1059                  | E45172<br>sec. 6 |

#### Compatible products

tools

**Item no.: 210-647**

210-647

Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short

**Item no.: 210-719**

210-719

Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm

**check****Item no.: 735-500**

735-500

Test pin; 1 mm Ø; with solder connection for test wire

**Marking accessories****Item no.: 210-331/250-202**

210-331

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive

/ 250-202

**Item no.: 210-331/250-204**

210-331

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive

/ 250-204

**Item no.: 210-331/250-206**

210-331

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive

/ 250-206

**Item no.: 210-331/250-207**

210-331

Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive

/ 250-207

**Downloads****CAD/CAE - Smart Data****CAD data**

3D Download 250-408

URL

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**PCB libraries**

EAGLE Library for WAGO PCB Terminal Blocks

2.1

zip

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Compatible with EAGLE PCB Design Software Version 6.x or higher

Oct 6, 2014

23.9 MB

DesignSpark Library for WAGO PCB Terminal Blocks

2.1

zip

Download

Compatible with DesignSpark PCB Version 4.x or higher

Oct 6, 2014

22.5 MB

TARGET Library for WAGO PCB Terminal Blocks

1.1.0

zip

Download

Compatible with TARGET PCB Design Software Version 17.x

Oct 6, 2014

27.1 MB

Subject to changes.