

# Data sheet | Item number: 2060-472/998-404

SMD PCB terminal block; Push-button; 0.75 mm<sup>2</sup>; Pin spacing 4 mm; 2-pole;  
Push-in CAGE CLAMP®; in tape-and-reel packaging



2060-472/998-404

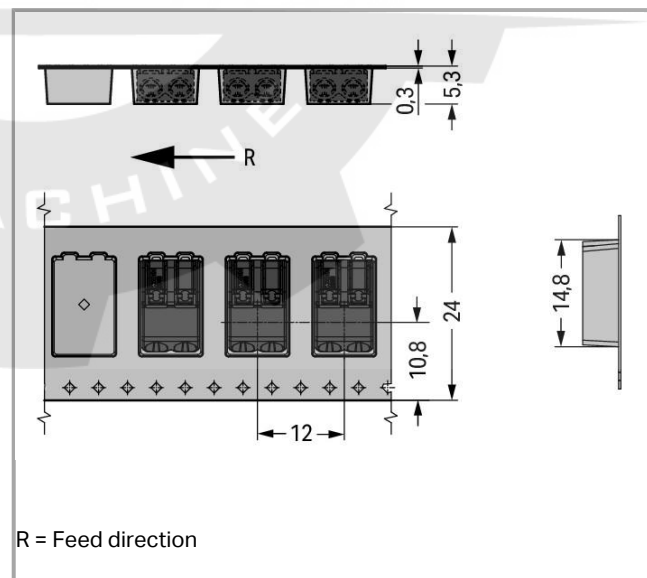
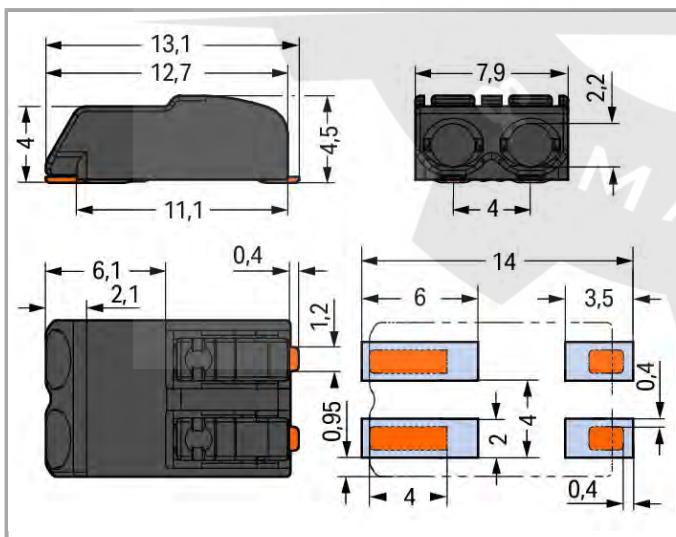
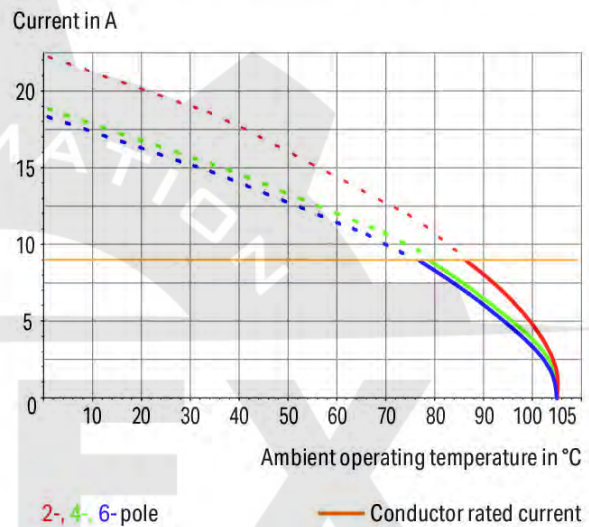


RoHS Compliant

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

Color:

**Current-Carrying Capacity Curve**  
Pin spacing: 4 mm / Conductor cross-section: 0.75 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1





### Item description

- SMD PCB terminal blocks with Push-in CAGE CLAMP® connection technology and push-buttons
- Push-in termination of solid and ferruled conductors
- Convenient termination/removal of fine-stranded conductors via push-buttons
- Just 4.5 mm tall
- Available in tape-and-reel packaging for automated assembly

### Note:

#### Application note:

Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260 °C peak temperature. Due to customer-specific variables (e.g., component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

### Recommendation:

#### Recommendation for SMD stencil:

Material thickness, 150 µm. Pattern layout identical to solder pad layout.

### Data

#### Electrical data

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

Rated voltage (III / 3)

63 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                   | 9 A    |

## Approvals per UL 1977

|                                                 |       |
|-------------------------------------------------|-------|
| Rated voltage per UL 1977 (factory wiring only) | 320 V |
| Rated current per UL 1977 (factory wiring only) | 9 A   |

## Connection data

|                                                             |                                  |
|-------------------------------------------------------------|----------------------------------|
| Connection technology                                       | Push-in CAGE CLAMP®              |
| Actuation type                                              | Push-button                      |
| Solid conductor                                             | 0.2 ... 0.75 mm² / 24 ... 18 AWG |
| Fine-stranded conductor                                     | 0.2 ... 0.75 mm² / 24 ... 18 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 0.34 mm²                |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 0.34 mm²                |
| Strip length                                                | 7 ... 9 mm / 0.28 ... 0.35 inch  |
| Conductor entry angle to the PCB                            | 0°                               |
| No. of poles                                                | 2                                |
| Total number of connection points                           | 2                                |
| Total number of potentials                                  | 2                                |
| Number of connection types                                  | 1                                |
| Number of levels                                            | 1                                |

## Geometrical Data

|                                          |                      |
|------------------------------------------|----------------------|
| Pin spacing                              | 4 mm / 0.157 inch    |
| Width                                    | 7.9 mm / 0.311 inch  |
| Height                                   | 4.5 mm / 0.177 inch  |
| Depth                                    | 13.1 mm / 0.516 inch |
| Reel diameter of tape-and-reel packaging | 330 mm               |
| Tape width                               | 24 mm                |

## PCB contact

|             |     |
|-------------|-----|
| PCB contact | SMD |
|-------------|-----|

## Material Data

|       |       |
|-------|-------|
| Color | black |
|-------|-------|

|                             |                                   |
|-----------------------------|-----------------------------------|
| Material group              | I                                 |
| Insulating material         | Polyphthalamide (PPA GF)          |
| Flammability class per UL94 | V0                                |
| Clamping spring material    | Chrome nickel spring steel (CrNi) |
| Contact material            | Copper alloy                      |
| Contact plating             | tin-plated                        |
| Fire load                   | 0 MJ                              |
| Weight                      | 0.518 g                           |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | CH            |
| GTIN               | 4055143251181 |
| 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-7724      |
|  | CCA<br>DEKRA Certification B.V.       | EN 60838                 | NTR NL-2168246   |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947                 | 71-107168        |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60838                 | 2168246.01       |

### UL-Approvals

| Logo                                                                               | Approval                                | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|------------------|
|  | cULus<br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |

## Compatible products

### General accessories

|                                                                                    |                                                                                                                |          |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------|
|    | <b>Item no.: 2060-952/028-000</b><br>Board-to-Board Link; Pin spacing 4 mm; 2-pole; Length: 28 mm              | 2060-952 |
|                                                                                    | 028-000                                                                                                        |          |
| <b>ferrule</b>                                                                     |                                                                                                                |          |
|     | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated | 216-131  |
|     | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated | 216-132  |
|                                                                                    | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | 216-301  |
|     | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated   | 216-302  |
| <b>tools</b>                                                                       |                                                                                                                |          |
|  | <b>Item no.: 2060-189</b><br>Operating tool; for 2060 Series SMD PCB Terminal Blocks; of insulating material   | 2060-189 |
|  | <b>Item no.: 206-860</b><br>Operating tool; for terminal blocks 2060 series                                    | 206-860  |

### Downloads

#### Documentation

##### Additional Information

pdf  
3.6 MB

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### CAD/CAE - Smart Data

#### CAD data

3D Download 2060-472/998-404

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Subject to changes.

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