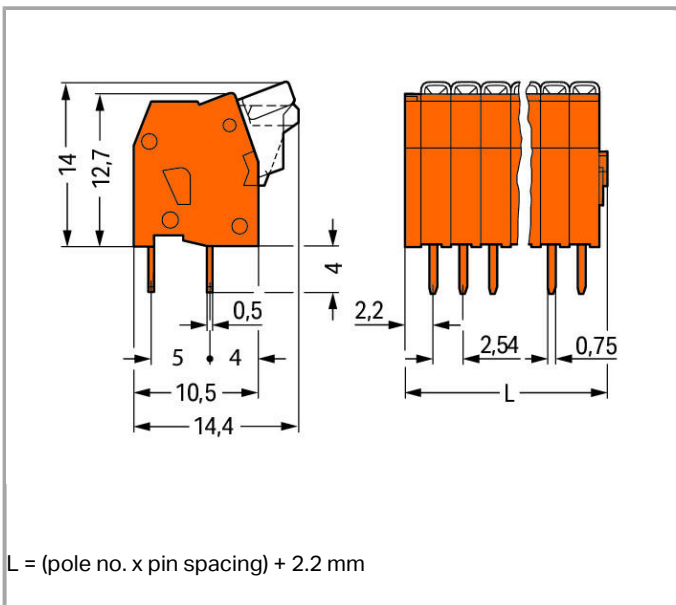
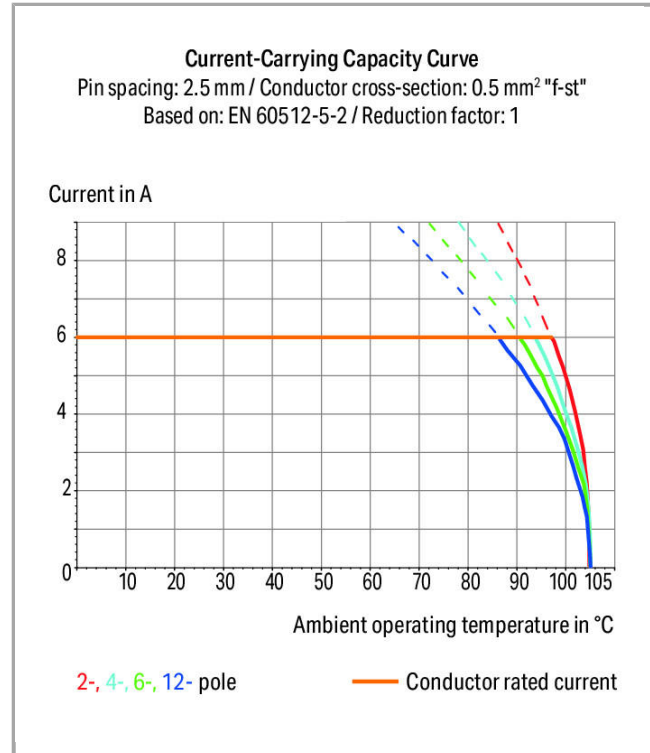


Data sheet | Item number: 234-512

PCB terminal block; Push-button; 0.5 mm<sup>2</sup>; Pin spacing 2.54 mm; 12-pole;  
CAGE CLAMP®



234-512



Item description

- Terminal strips with push-buttons and CAGE CLAMP® connection

- Double solder pins for high mechanical stability on PCB
- Ideal for in-the-field wiring thanks to simplified push-button actuation
- Convenient, tool-free operation

## 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                   | 6 A    |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 4 A   |

#### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 4 A   |

### Connection data

|   |  |
|---|--|
| Connection technology                                       | CAGE CLAMP®                                  |
| Actuation type  | Push-button                                  |
| Solid conductor   | 0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG |
| Fine-stranded conductor                                     | 0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 mm <sup>2</sup>                         |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 mm <sup>2</sup>                         |
| Strip length  | 5 ... 6 mm / 0.2 ... 0.24 inch               |
| Conductor entry angle to the PCB                            | 90°  |
| No. of poles  | 12   |
| Total number of connection points                           | 12   |
| Total number of potentials                                  | 12   |
| Number of connection types                                  | 1  |
| Number of levels  | 1  |



## Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 2.54 mm / 0.1 inch             |
| Width                             | 32.68 mm / 1.287 inch          |
| Height                            | 18 mm / 0.709 inch             |
| Height from the surface           | 14 mm / 0.551 inch             |
| Depth                             | 14.4 mm / 0.567 inch           |
| Solder pin length                 | 4 mm                           |
| Solder pin dimensions             | 0.5 x 0.75 mm                  |
| Drilled hole diameter (tolerance) | 1.1 <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 | 2                                       |

## Material Data

|                             |  |
|-----------------------------|--|
| Color                       | orange                                 |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.088 MJ                               |
| Weight                      | 6.097 g                                |

## Environmental Requirements

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







## Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | CH                  |
| GTIN               | 4044918652209       |
| Customs Tariff No. | 85369010000         |



## Approvals / Certificates

### Country specific Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|      |          |                          |                  |

|   |                                 |              |                 |
|---|---------------------------------|--------------|-----------------|
|   | CCA<br>DEKRA Certification B.V. | EN 60998     | NTR NL<br>6946  |
|   | CCA<br>DEKRA Certification B.V. | EN 60998     | 2153951.01      |
|   | CCA<br>DEKRA Certification B.V. | EN 60947     | 2169331.03      |
|   | CCA<br>DEKRA Certification B.V. | EN 60947-7-4 | NTR NL-<br>7270 |
|   | CSA<br>DEKRA Certification B.V. | C22.2        | 1465035         |
|  | CSA<br>DEKRA Certification B.V. | C22.2        | 1465035         |

## 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           |

## Compatible products



## tools

|  |  |         |
|--|--|---------|
|  | <b>Item no.: 210-648</b><br>Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short; angled | 210-648 |
|  | <b>Item no.: 210-719</b><br>Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm        | 210-719 |

## Marking accessories

|  |  |                            |
|--|--|----------------------------|
|  | <b>Item no.: 210-331/254-202</b><br>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  | <i>/254-202</i><br>210-331 |
|  | <b>Item no.: 210-331/254-204</b><br>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 | <i>/254-204</i><br>210-331 |
|  | <b>Item no.: 210-331/254-206</b><br>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 | <i>/254-206</i><br>210-331 |
|  | <b>Item no.: 210-331/254-207</b><br>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  | <i>/254-207</i><br>210-331 |

## ferrule

|  |  |         |
|--|--|---------|
|  | <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.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated | 216-151 |
|  | <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.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | 216-321 |

## Downloads

## CAD/CAE - Smart Data

## CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 234-512 | URL | Download |
|---------------------|-----|----------|

## PCB libraries

|  |                      |                |          |
|--|----------------------|----------------|----------|
| TARGET Library for WAGO PCB Terminal Blocks<br>Compatible with TARGET PCB Design Software Version 17.x | 1.1.0<br>Oct 6, 2014 | zip<br>27.1 MB | Download |
|--|----------------------|----------------|----------|



|   |                    |                |                          |
|---|--------------------|----------------|--------------------------|
| DesignSpark Library for WAGO PCB Terminal Blocks<br>Compatible with DesignSpark PCB Version 4.x or higher     | 2.1<br>Oct 6, 2014 | zip<br>22.5 MB | <a href="#">Download</a> |
| EAGLE Library for WAGO PCB Terminal Blocks<br>Compatible with EAGLE PCB Design Software Version 6.x or higher | 2.1<br>Oct 6, 2014 | zip<br>23.9 MB | <a href="#">Download</a> |

Subject to changes.

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