

## Data sheet | Item number: 234-524

PCB terminal block; push-button; 0.5 mm<sup>2</sup>; Pin spacing 2.54 mm; 24-pole;  
CAGE CLAMP®; 0,50 mm<sup>2</sup>; orange

[www.wago.com/234-524](http://www.wago.com/234-524)



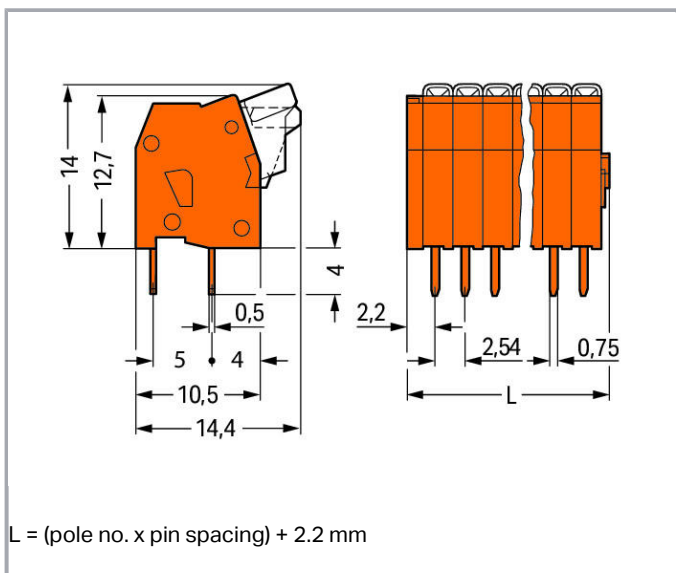
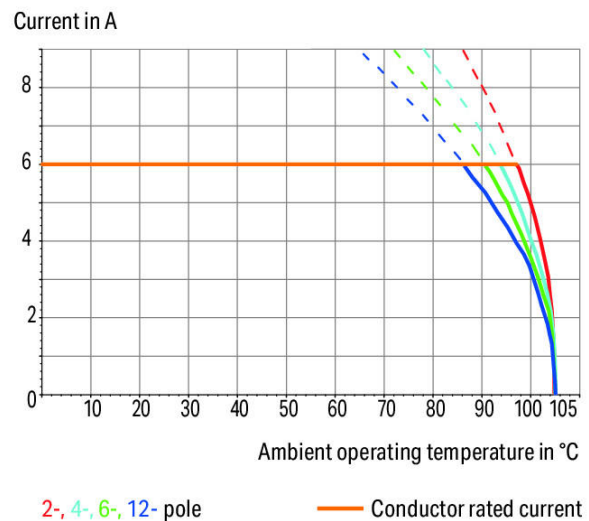
RoHS  
Compliant

BOMcheck.net

Color: ■

### Current-Carrying Capacity Curve

Pin spacing: 2.5 mm / Conductor cross-section: 0.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



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

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## Item description

- PCB 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

| Ratings per                 | IEC/EN 60664-1                                            |
|-----------------------------|-----------------------------------------------------------|
| Nominal voltage (III/3)     | 63 V                                                      |
| Rated surge voltage (III/3) | 2.5 kV                                                    |
| Rated voltage (III/2)       | 160 V                                                     |
| Rated surge voltage (III/2) | 2.5 kV                                                    |
| Nominal voltage (II/2)      | 320 V                                                     |
| Rated surge voltage (II/2)  | 2.5 kV                                                    |
| Rated current               | 6 A                                                       |
| Legend (ratings)            | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

#### 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 mm² / 28 ... 20 AWG |
| Fine-stranded conductor                         | 0,08 ... 0,5 mm² / 28 ... 20 AWG |
| Fine-stranded conductor; with insulated ferrule | 0,25 mm²                         |

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



|                                                   |                                |
|---------------------------------------------------|--------------------------------|
| Fine-stranded conductor; with uninsulated ferrule | 0,25 mm²                       |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inch |
| Conductor connection direction to PCB             | 90°                            |
| Pole No.                                          | 24                             |
| Total number of connection points                 | 24                             |
| Total number of potentials                        | 24                             |
| Number of connection types                        | 1                              |
| Number of levels                                  | 1                              |

### Geometrical Data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 2,54 mm / 0.1 inch       |
| Width                                | 63,16 mm / 2.487 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 with 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                                      |
| Insulation 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                   | 0.172 MJ                               |
| Weight                      | 12.2 g                                 |

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## Environmental Requirements

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

## Commercial data

|                       |                     |
|-----------------------|---------------------|
| Product Group         | 4 (Printed Circuit) |
| Packaging type        | BOX                 |
| Country of origin     | CH                  |
| GTIN                  | 4044918652322       |
| Customs tariff number | 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 60947-7-4             | NTR NL<br>7787   |
|  | CSA<br>DEKRA Certification B.V.       | C22.2                    | 1465035          |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947-7-4             | 71-111042        |

### Ship Approvals

| Logo | Approval                           | Additional Approval Text | Certificate name  |
|------|------------------------------------|--------------------------|-------------------|
|      | ABS<br>American Bureau of Shipping | -                        | 19-<br>HG1869876- |

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

**DNV GL**

Det Norske Veritas, Germanischer Lloyd

TAE000016Z

**UL-Approvals**

| Logo                                                                             | Approval                            | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|-------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Germany GmbH | UL 1059                  | 20190731-E45172  |

**Counterpart****Compatible products****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; white  | <a href="http://www.wago.com/210-331/254-202">www.wago.com/210-331/254-202</a> |
| <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; white | <a href="http://www.wago.com/210-331/254-204">www.wago.com/210-331/254-204</a> |
| <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; white | <a href="http://www.wago.com/210-331/254-206">www.wago.com/210-331/254-206</a> |
| <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; white  | <a href="http://www.wago.com/210-331/254-207">www.wago.com/210-331/254-207</a> |

**ferrule**

|                                                                                   |                                                                                                                |                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated | <a href="http://www.wago.com/216-131">www.wago.com/216-131</a> |
|                                                                                   | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |

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

**Item no.: 216-301**Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow[www.wago.com/216-301](http://www.wago.com/216-301)**Item no.: 216-321**Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow[www.wago.com/216-321](http://www.wago.com/216-321)**tools****Item no.: 210-648**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

[www.wago.com/210-648](http://www.wago.com/210-648)**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-719](http://www.wago.com/210-719)**Downloads****CAD/CAE-Data****CAD data**

2D/3D Models 234-524

URL

Download

**CAE data**

EPLAN Data Portal 234-524

URL

Download

**PCB Design**

Symbol and Footprint 234-524

URL

Download

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

**Supported formats:**

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture

—  
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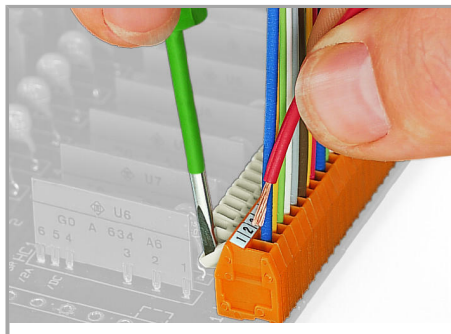
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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## Installation Notes

### Conductor termination



Nominal cross-section: 0.5 mm<sup>2</sup> (20 AWG);

Inserting/removing a conductor.

0.75 mm<sup>2</sup> (18 AWG) only in every other position

### Marking

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Labeling via self-adhesive marking strips or  
factory direct marking.

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