

**Data sheet | Item number: 218-505**

PCB terminal block; Locking slides; 0.5 mm<sup>2</sup>; Pin spacing 2.54 mm; 5-pole;  
CAGE CLAMP®; 0,50 mm<sup>2</sup>; gray



[www.wago.com/218-505](http://www.wago.com/218-505)



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

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Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$

A groove at the back of the terminal strip indicates the 2.54 mm pin spacing (red circle).

## Item description

- Terminal strips are just 8.1 mm tall and feature an innovative, locking slide-actuated CAGE CLAMP®
- Several clamping units can be held open simultaneously
- Easily terminate stranded conductors in

tight spaces (e.g., bus connectors)

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



## Data

### Notes

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Other pole numbers  
Other colors  
Mixed-color PCB connector strips  
Direct marking

### Electrical data

|                                 |   |
|---------------------------------|---|
| 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   |
| Ratings per                     | IEC/EN 60664-1  |
| Nominal voltage (III/3)         | 80 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) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Connection data

|   |  |
|---|--|
| Total number of connection points                 | 5  |
| Total number of potentials                        | 5  |
| Number of connection types                        | 1  |
| Number of levels                                  | 1  |
| Connection technology                             | CAGE CLAMP®  |
| Actuation type                                    | Slider   |
| 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 insulated ferrule   | 0.25 mm <sup>2</sup>   |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 mm <sup>2</sup>   |
| Note (conductor cross-section)                    | Terminating 0.75 mm <sup>2</sup> /18 AWG conductors is possible; however |

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insulation diameter allows only every other clamping unit to be terminated with this conductor size.

|                                       |                                |
|---------------------------------------|--------------------------------|
| Strip length                          | 5 ... 6 mm / 0.2 ... 0.24 inch |
| Conductor connection direction to PCB | 40°                            |
| Pole No.                              | 5                              |

### Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 2.54 mm / 0.1 inch       |
| Width                                | 14.2 mm / 0.559 inch     |
| Height                               | 10.9 mm / 0.429 inch     |
| Height from the surface              | 8.1 mm / 0.319 inch      |
| Depth                                | 13 mm / 0.512 inch       |
| Solder pin length                    | 2.8 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                       | gray                                   |
| Material group              | I                                      |
| Insulation material         | Polyamide (PA66)                       |
| 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                   | 0.083 MJ                               |
| Weight                      | 1.7 g                                  |

### Environmental requirements

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






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

## Commercial data


|                       |                     |
|-----------------------|---------------------|
| Product Group         | 4 (Printed Circuit) |
| PU (SPU)              | 500 (100) Stück     |
| Packaging type        | box                 |
| Country of origin     | PL                  |
| GTIN                  | 4044918878340       |
| Customs tariff number | 85369010000         |

## Approvals / Certificates

### Country specific Approvals

| Logo   | Approval                         | Additional Approval Text | Certificate name |
|--|----------------------------------|--------------------------|------------------|
|    | CCA<br>DEKRA Certification B.V.  | EN 60947                 | NTR NL-7076      |
|   | CCA<br>DEKRA Certification B.V.  | EN 60947-7-4             | NTR NL-7785      |
|  | CCA<br>DEKRA Certification B.V.  | EN 60947-7-4             | 77-111038        |
|  | CSA<br>DEKRA Certification B.V.  | C22.2 No. 158            | 1565656          |
|  | ENEC<br>DEKRA Certification B.V. | EN 60947                 | 2160584.01       |

### UL-Approvals

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

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

## Optional accessories

### Testing and measuring

#### Testing accessories



**Item no.: 735-500**

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

[www.wago.com/735-500](http://www.wago.com/735-500)

### Tool

#### Operating tool



**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)

### Marking accessories

#### Marking strip

**Item no.: 210-331/254-204**

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

[www.wago.com/210-331/254-204](http://www.wago.com/210-331/254-204)

**Item no.: 210-331/254-206**

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

[www.wago.com/210-331/254-206](http://www.wago.com/210-331/254-206)

**Item no.: 210-331/254-202**

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

[www.wago.com/210-331/254-202](http://www.wago.com/210-331/254-202)

**Item no.: 210-331/254-207**

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

[www.wago.com/210-331/254-207](http://www.wago.com/210-331/254-207)

### Ferrule

#### Ferrule



**Item no.: 216-131**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-131](http://www.wago.com/216-131)



**Item no.: 216-151**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

[www.wago.com/216-151](http://www.wago.com/216-151)



**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)

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## Downloads

### Documentation

#### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>2.0 MB | Download |
|------------------------|-------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 218-505 | URL | Download |
|----------------------|-----|----------|

#### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 218-505 | URL | Download |
|---------------------------|-----|----------|

|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 218-505 | URL | Download |
|----------------------|-----|----------|

#### PCB Design

|                              |     |          |
|------------------------------|-----|----------|
| Symbol and Footprint 218-505 | 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
- 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

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

- 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

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 218-505

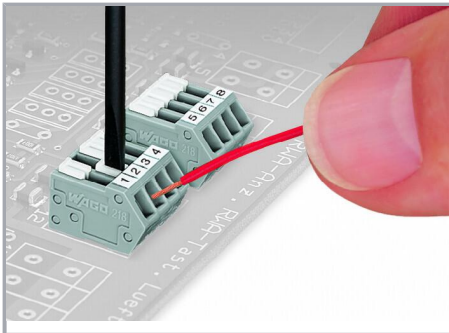
URL

Download

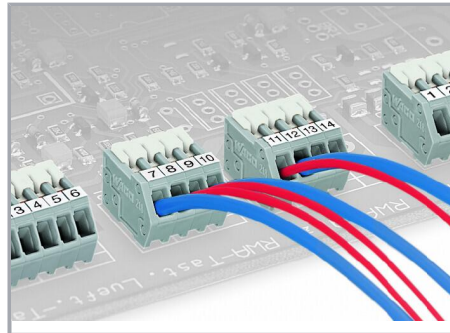
PCB terminal block; Locking slides; 0.5 mm<sup>2</sup>; Pin spacing 2.54 mm; 5-pole; CAGE CLAMP®; 0,50 mm<sup>2</sup>; gray

## Installation Notes

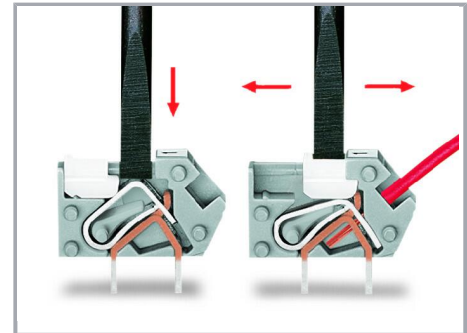
### Conductor termination



Terminating stranded conductors in confined spaces requires a great deal of patience, unless you use the new 218 Series PCB Terminal Strips. The clamping units of these strips can be held open during termination process via integrated locking slide.



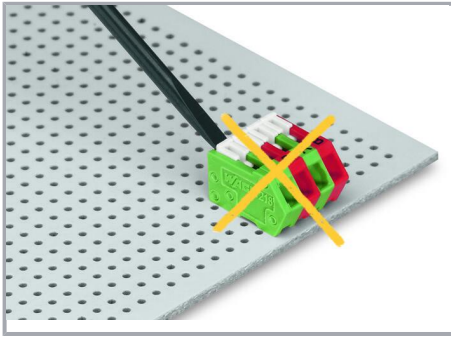
Terminating 0.75 mm<sup>2</sup>/18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size.



Conductor termination: To momentarily open the clamping unit, use screwdriver and then insert a stripped conductor. To open clamping unit for an extended period, move locking slide toward conductor entry hole. Then fully insert stripped conductor and move locking slide back to original position (also possible to perform with fingernail).

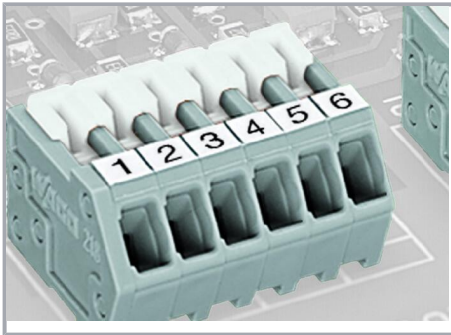
Subject to changes. Please also observe the further product documentation!



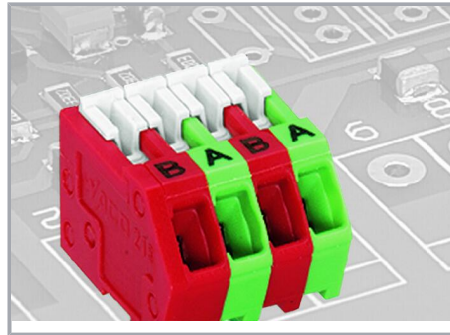


Incorrect – do not operate the locking slides from the back.

### Marking

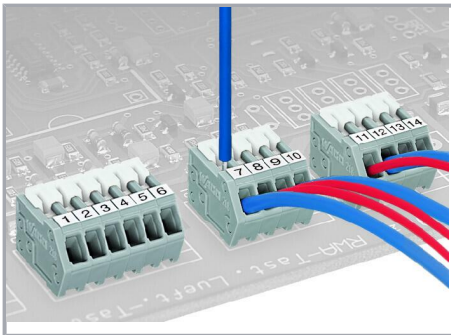


Labeling with self-adhesive marking strips.



Labeling via factory direct marking.

### Testing



Testing directly on the clamping spring.

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