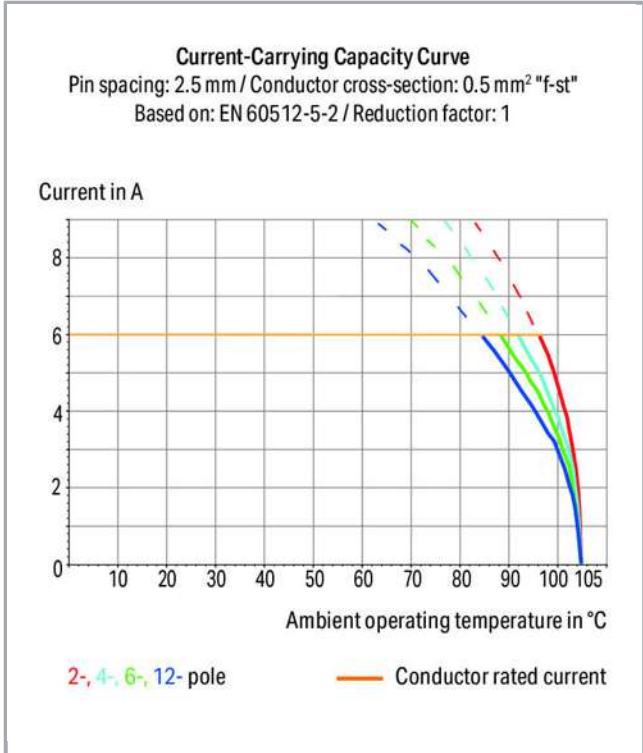


Data sheet | Item number: 218-512

PCB terminal block; Locking slides; 0.5 mm²; Pin spacing 2.54 mm; 12-pole;
CAGE CLAMP®; 0,50 mm²; gray



www.wago.com/218-512



RoHS Compliant

BOMcheck.net

Color: ■

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

WAGO Kontakttechnik GmbH & Co. KG
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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)

Data

Electrical data

Ratings per IEC/EN 60664-1

| Ratings per | IEC/EN 60664-1 |
|---------------------------------|----------------|
| Rated voltage (III / 3) | 80 V |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2) | 160 V |
| Rated impulse voltage (III / 2) | 2.5 kV |

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| | |
|--------------------------------|---|
| Rated voltage (II / 2) | 320 V |
| Rated impulse 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 | UL 1059 |

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 | Slider |
| Solid conductor | 0,08 ... 0,5 mm ² / 28 ... 20 AWG |
| Fine-stranded conductor | 0,08 ... 0,5 mm ² / 28 ... 20 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0,25 mm ² |
| Fine-stranded conductor with ferrule without plastic collar | 0,25 mm ² |
| Strip length | 5 ... 6 mm / 0.2 ... 0.24 inch |
| Conductor entry angle to the PCB | 40° |
| No. of poles | 12 |
| Total number of connection points | 12 |
| Total number of potentials | 12 |
| Number of connection types | 1 |
| Number of levels | 1 |
| Note (conductor cross-section) | Terminating 0.75 mm ² /18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size. |

Geometrical Data

| | |
|-------------|-----------------------|
| Pin spacing | 2,54 mm / 0.1 inch |
| Width | 31,98 mm / 1.259 inch |
| Height | 10,9 mm / 0.429 inch |

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| | |
|-----------------------------------|--------------------------|
| 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 (tolerance) | 1,1 ^(+0,1) 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 |
| Insulating material | Polyamide 66 (PA 66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |
| Fire load | 0.051 MJ |
| Weight | 3.9 g |

Environmental Requirements

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

Commercial data

| | |
|--------------------|---------------------|
| Product Group | 4 (Printed Circuit) |
| Packaging type | BOX |
| Country of origin | PL |
| GTIN | 4044918878555 |
| Customs Tariff No. | 85369010000 |

Approvals / Certificates





Country specific Approvals

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


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| | | | |
|--|----------------------------------|---------------|-------------|
|  | CCA DEKRA Certification B.V. | EN 60947 | NTR NL-7076 |
|  | CCA DEKRA Certification B.V. | EN 60947-7-4 | NTR NL-7267 |
|  | CSA DEKRA Certification B.V. | C22.2 No. 158 | 1565656 |
|  | ENEC DEKRA Certification B.V. | EN 60947 | 2160584.01 |



UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|-------------------------------------|--------------------------|------------------|
|  | UL UL International Germany GmbH | UL 1059 | 20190630-45172 |

Counterpart

Compatible products

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 |
|  | Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |

Marking accessories

| | |
|--|--|
| 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 |
|--|--|

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

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

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

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

check



Item no.: 735-500
 Test pin; 1 mm Ø; with solder connection for test wire
www.wago.com/735-500

ferrule



Item no.: 216-131
 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated
www.wago.com/216-131



Item no.: 216-151
 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated
www.wago.com/216-151

Item no.: 216-301
 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow
www.wago.com/216-301

Item no.: 216-321
 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow
www.wago.com/216-321

Downloads

Documentation

Additional Information

| | | | |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf 3.6 MB | Download |
|------------------------|-------------|---------------|----------|

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 218-512 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 218-512 | URL | Download |
|---------------------------|-----|----------|

PCB Design

Symbol and Footprint 218-512

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



[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
- 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

Installation Notes

Conductor termination

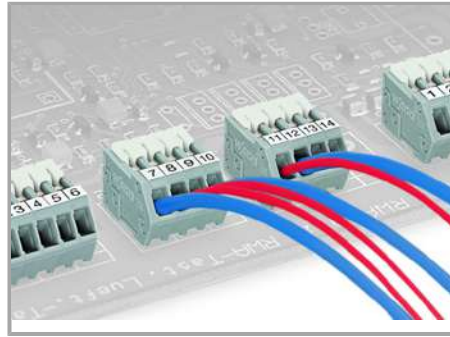
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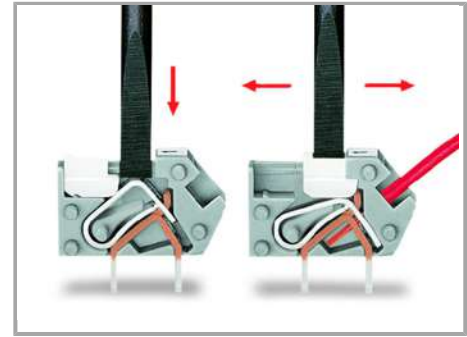
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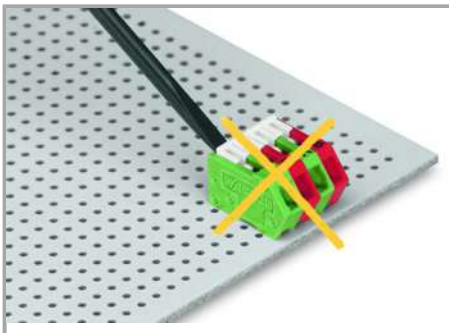
Terminating stranded conductors in confined spaces requires a great deal of patience, unless you use the new 218 Series PCB Terminal Strips. The clamping units of these strips can be held open during termination process via integrated locking slide.



Terminating 0.75 mm² (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).



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

Marking

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



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!