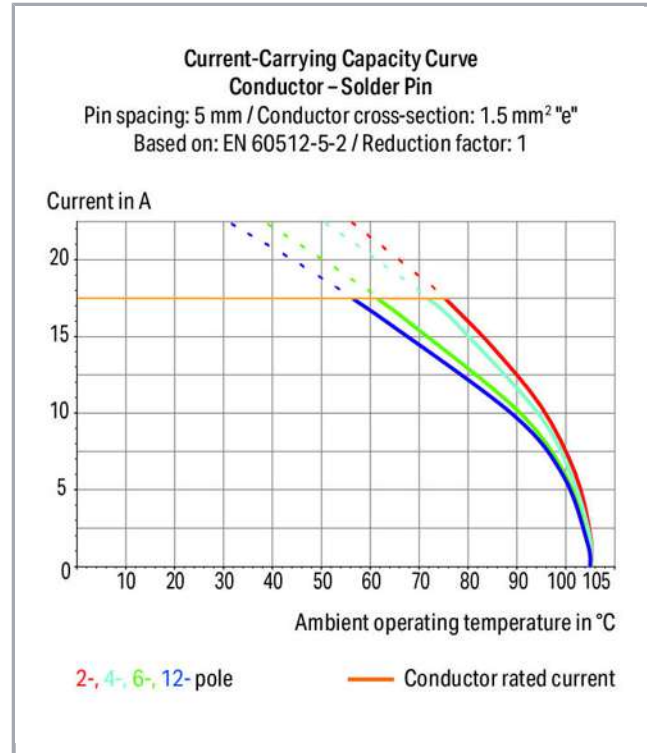
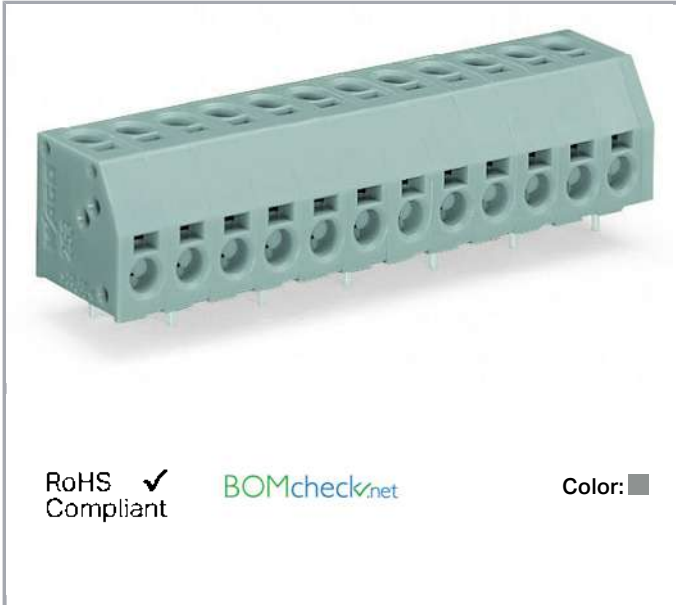


Data sheet | Item number: 253-110

2-conductor PCB terminal block; 1.5 mm²; Pin spacing 5 mm; 10-pole; PUSH WIRE®; 1,50 mm²; gray



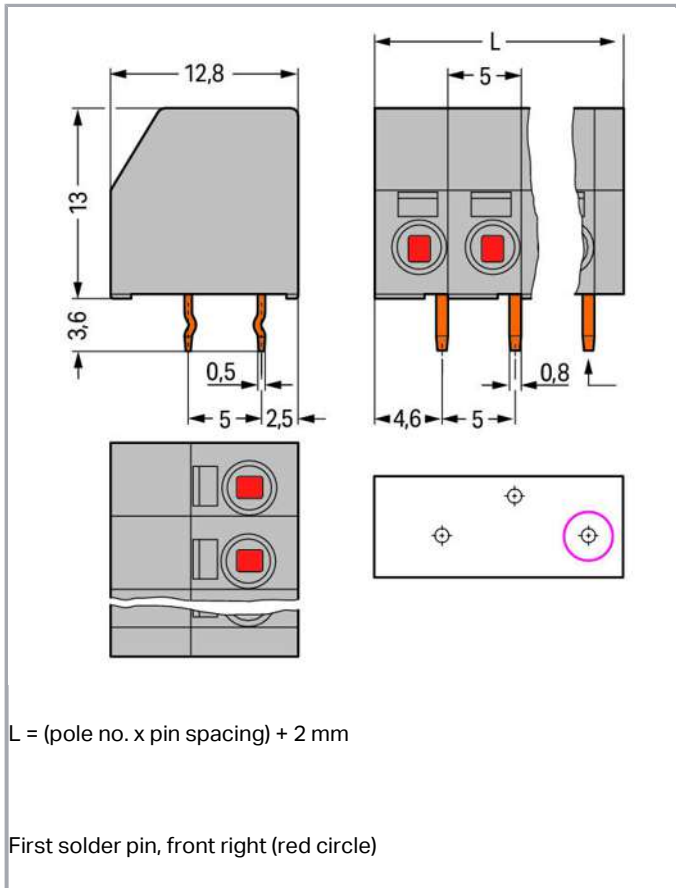
www.wago.com/253-110



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

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Item description

- PCB terminal strips with screwdriver-actuated PUSH WIRE® termination
- Double-conductor connection provides top-entry (vertical) and/or side-entry (horizontal) wiring
- Push-in termination of solid conductors
- Double entries for power supply and potential distribution

Data

Electrical data

Ratings per IEC/EN 60664-1

| Ratings per | IEC/EN 60664-1 |
|---------------------------------|----------------|
| Rated voltage (III / 3) | 320 V |
| Rated impulse voltage (III / 3) | 4 kV |
| Rated voltage (III / 2) | 320 V |

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| | |
|---------------------------------|---|
| Rated impulse voltage (III / 2) | 4 kV |
| Rated voltage (II / 2) | 630 V |
| Rated impulse voltage (II / 2) | 4 kV |
| Rated current | 17.5 A |
| Legend (ratings) | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

Approvals per UL 1059

| | |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 8 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 8 A |
| Approvals per | UL 1059 |

Approvals per CSA

| | |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 8 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 8 A |

Connection data

| | |
|---|--|
| Connection type (1) | PUSH WIRE® connection |
| Connection technology | PUSH WIRE® |
| Number of connection points (connection type) | 1 |
| Actuation type | Operating tool |
| Solid conductor | 0,5 ... 1,5 mm ² / 20 ... 16 AWG |
| Strip length | 8,5 ... 9,5 mm / 0.33 ... 0.37 inch |
| Note (strip length) | 7 ... 8 mm / 0.28 ... 0.31 inch (for wiring on both sides) |
| Conductor entry angle to the PCB | 0° |
| No. of poles | 10 |
| Connection type (2) | PUSH WIRE® connection |
| Connection technology 2 | PUSH WIRE® |
| Number of connection points | 1 |
| Solid conductor (2) | 0,5 ... 1,5 mm ² / 20 ... 16 AWG |
| Strip length (2) | 8,5 ... 9,5 mm / 0.33 ... 0.37 inch |
| Note (strip length) 2 | 7 ... 8 mm / 0.28 ... 0.31 inch (for wiring on both sides) |
| Conductor entry angle to the PCB 2 | 90° |

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



| | |
|-----------------------------------|----|
| Total number of connection points | 20 |
| Total number of potentials | 10 |
| Number of connection types | 2 |
| Number of levels | 2 |

Geometrical Data

| | |
|-----------------------------------|----------------------|
| Pin spacing | 5 mm / 0.197 inch |
| Width | 52 mm / 2.047 inch |
| Height | 16,6 mm / 0.654 inch |
| Height from the surface | 13 mm / 0.512 inch |
| Depth | 12,8 mm / 0.504 inch |
| Solder pin length | 3.6 mm |
| Solder pin dimensions | 0,5 x 0,8 mm |
| Drilled hole diameter (tolerance) | 1,1 (+0,1) mm |

PCB contact

| | |
|-------------------------------------|--|
| PCB contact | THT |
| Solder pin arrangement | over the entire terminal strip (staggered) |
| Number of solder pins per potential | 1 |

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 | 0.18 MJ |
| Weight | 8.7 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) |
| Packaging type | BOX |
| Country of origin | CN |
| GTIN | 4044918689588 |
| Customs Tariff No. | 85369010000 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 60947 | NTR NL-7649 |
|  | CCA DEKRA Certification B.V. | EN 60998 | 2126302.02 |
|  | CCA DEKRA Certification B.V. | EN 60998 | NTR NL-6580 |
|  | ENEC DEKRA Certification B.V. | EN 60947 | 71-101931 |
|  | VDE VDE Prüf- und Zertifizierungsinstitut | EN 60998 | 40028668 |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | cURus Underwriters Laboratories Inc. | UL 1059 | E45172 sec. 6 |
| | UL | UL 1977 | E45171 |

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



UL International Germany GmbH

Counterpart

Compatible products

tools

**Item no.: 210-647**

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

www.wago.com/210-647**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.: 210-332/500-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/500-202**Item no.: 210-332/500-204**

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/500-204**Item no.: 210-332/500-205**

Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/500-205**Item no.: 210-332/500-206**

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/500-206**Item no.: 210-833**

Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white

www.wago.com/210-833

Downloads

Documentation

Additional Information

Technical explanations

Apr 3, 2019

pdf
3.6 MB

Download

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CAD/CAE-Data

CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 253-110 | URL | Download |
|----------------------|---------------------|--------------------------|

CAE data

| | | |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 253-110 | URL | Download |
|---------------------------|---------------------|--------------------------|

PCB Design

| | | |
|------------------------------|---------------------|--------------------------|
| Symbol and Footprint 253-110 | 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

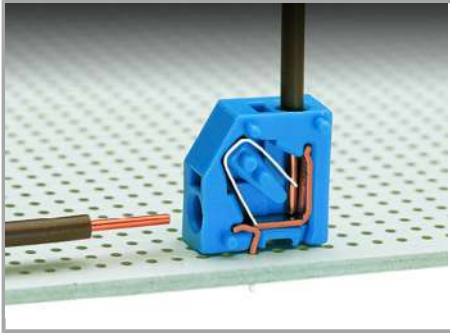
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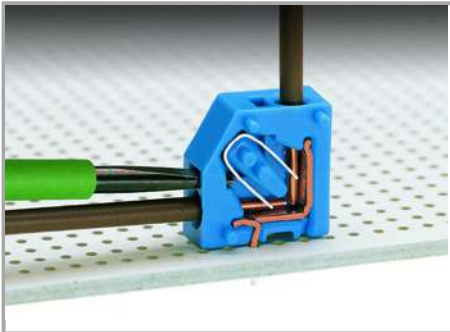
Installation Notes

Conductor termination



Inserting a conductor via push-in termination.

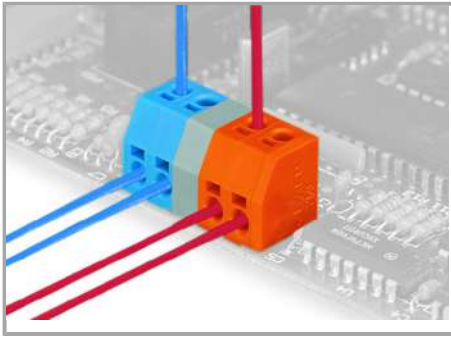
Conductor removal



Removing a conductor via 2.5 mm screwdriver.

Installation

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



Mixed-color terminal strips (with or without spacer) are available upon request.

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