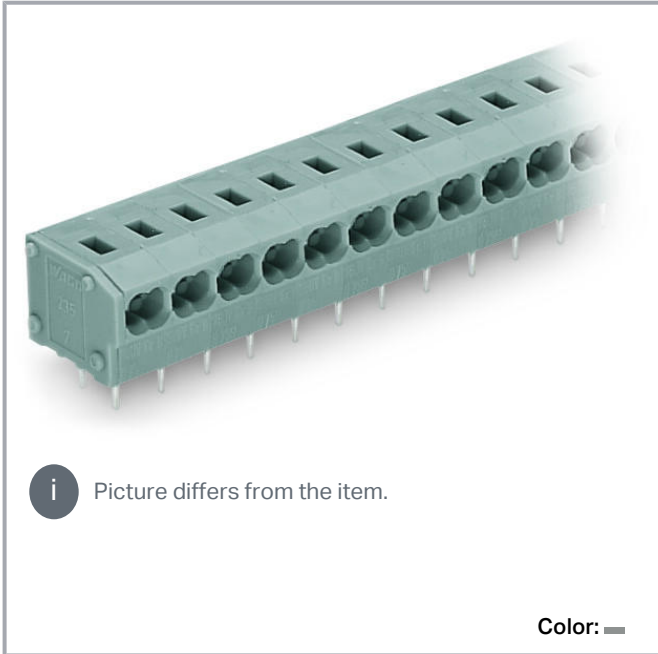


Data sheet | Item number: 235-453

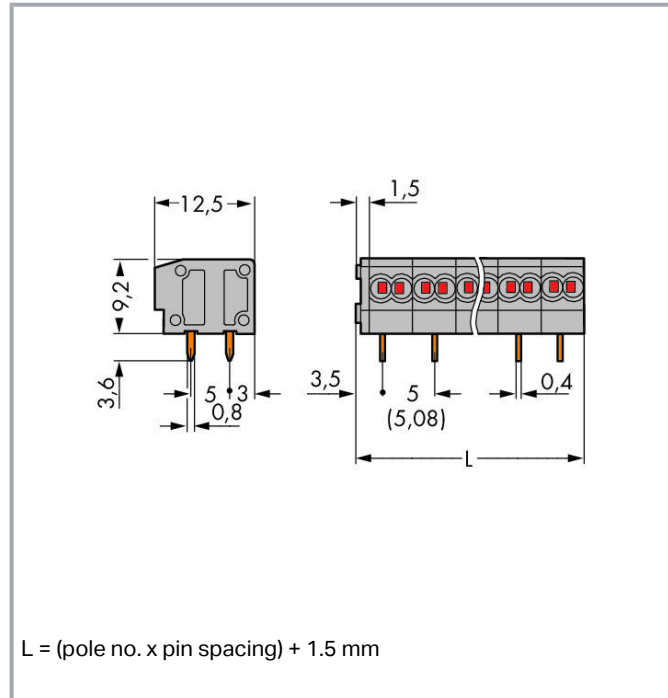
2-conductor PCB terminal block; 0.75 mm²; Pin spacing 5/5.08 mm; 3-pole; PUSH WIRE®; 0,75 mm²; gray

www.wago.com/235-453



i Picture differs from the item.

Color:



Item description

- Low-profile terminal strips with screwdriver-actuated PUSH WIRE® termination
- Double-conductor connection for supply and distribution of signals – ideal for standard, single-conductor signal lines – suitable for push-in termination
- Double solder pins for high mechanical stability
- Combines with all 235 Series modular terminal blocks
- Set to metric or inch pin spacing by compressing terminal strips together or pulling them apart
- Conductor removal via screwdriver (2.5mm x 0.4mm)
- Also available with test slot

Data

Electrical data

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

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

Ratings per IEC/EN

| | |
|-----------------------------|--|
| Ratings per | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 250 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| Nominal voltage (II/2) | 630 V |
| Rated surge voltage (II/2) | 4 kV |
| Rated current | 10 A |
| Legend (ratings) | (III / 2) \triangleq Overvoltage category III / Pollution degree 2 |

Ratings per UL

| | |
|--------------------------------|---------|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

Ratings per CSA

| | |
|---------------------------------|-------|
| Approvals per | CSA |
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A |

Connection data

| | |
|---|---|
| Connection technology | PUSH WIRE [®] |
| Actuation type | Operating tool |
| Solid conductor | 0.25 ... 0.75 mm ² / 24 ... 18 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.34 mm ² |
| Strip length | 9 ... 10 mm / 0.35 ... 0.39 inch |
| Conductor connection direction to PCB | 0° |
| Pole No. | 3 |
| Total number of connection points | 6 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels | 1 |

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

Physical data

| | |
|--------------------------------------|----------------------------|
| Pin spacing | 5/5.08 mm / 0.197/0.2 inch |
| Width | 16.5 mm / 0.65 inch |
| Height | 12.8 mm / 0.504 inch |
| Height from the surface | 9.2 mm / 0.362 inch |
| Depth | 12.5 mm / 0.492 inch |
| Solder pin length | 3.6 mm |
| Solder pin dimensions | 0.8 x 0.4 mm |
| Drilled hole diameter with tolerance | 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 |
| Insulation material | Polyamide (PA66) |
| 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 | 0.037 MJ |
| Weight | 2.2 g |

Environmental requirements

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







Commercial data

| | |
|-----------------------|---------------------|
| Product Group | 4 (Printed Circuit) |
| Packaging type | BOX |
| Country of origin | CH |
| GTIN | 4044918655958 |
| Customs tariff number | 85369010000 |



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

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 60947 | NTR NL- 7144 |
|  | CCA DEKRA Certification B.V. | EN 60947 | 2149549.02 |
|  | CCA DEKRA Certification B.V. | EN 60998 | NTR NL 6919 |
|  | CCA DEKRA Certification B.V. | EN 60947-7-4 | NTR NL- 7774 |
|  | CSA DEKRA Certification B.V. | C22.2 | 1673956 |
|  | VDE VDE Prüf- und Zertifizierungsinstitut | EN 60947 | 40029328 |

Ship Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 19- HG1869876- PDA |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE000016Z |

UL-Approvals

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












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| Logo | Approval | Additional Approval Text | Certificate name |
|--|-------------------------------------|--------------------------|---------------------|
|  | UL UL International Germany GmbH | - | 20180629- E45172 |

Compatible products

ferrule

| | | |
|--|--|--|
|  | Item no.: 216-101 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-101 |
|  | Item no.: 216-121 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-121 |
|  | Item no.: 216-131 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-131 |
|  | Item no.: 216-132 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-132 |
|  | Item no.: 216-141 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-141 |
|  | Item no.: 216-151 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-151 |
|  | Item no.: 216-152 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-152 |
|  | Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-201 |
|  | Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-221 |
|  | Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | www.wago.com/216-241 |
| | Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-301 |
|  | Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green | www.wago.com/216-302 |
| | Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-321 |
| | Item no.: 216-322 | |

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



Downloads

Documentation

Additional Information

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

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 235-453 | URL | Download |
|----------------------|-----|----------|

PCB Design

| | | |
|------------------------------|-----|----------|
| Symbol and Footprint 235-453 | URL | Download |
|------------------------------|-----|----------|

CAD 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!

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



- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

CAE data

| | | |
|---------------------------|-----|----------|
| ZUKEN Portal 235-453 | URL | Download |
| EPLAN Data Portal 235-453 | URL | Download |

Environmental Product Compliance

Compliance Search

| | | |
|---|-----|----------|
| Environmental Product Compliance 235-453 2-conductor PCB terminal block; 0.75 mm ² ; Pin spacing 5/5.08 mm; 3-pole; PUSH WIRE®; 0,75 mm ² ; gray | URL | Download |
|---|-----|----------|

Installation Notes

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