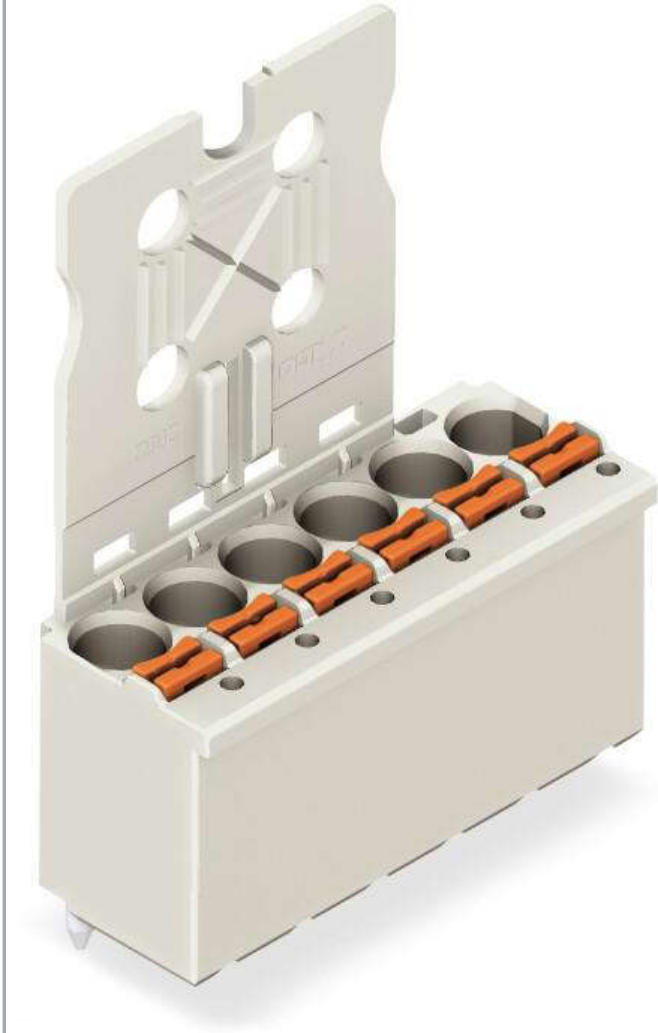
# 1-conductor THT female header; 1.4 mm Ø solder pin; straight; Gripping plate; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; light gray

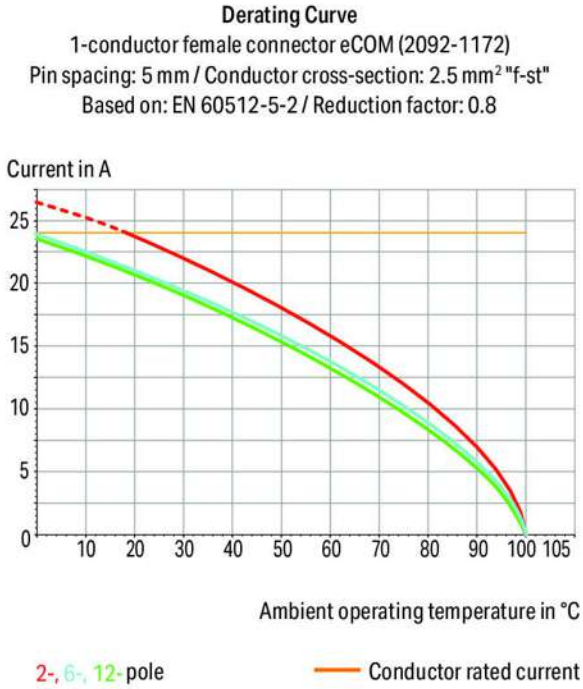
www.wago.com/2092-1153



RoHS ✓ Compliant

BOMcheck.net

Color:




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

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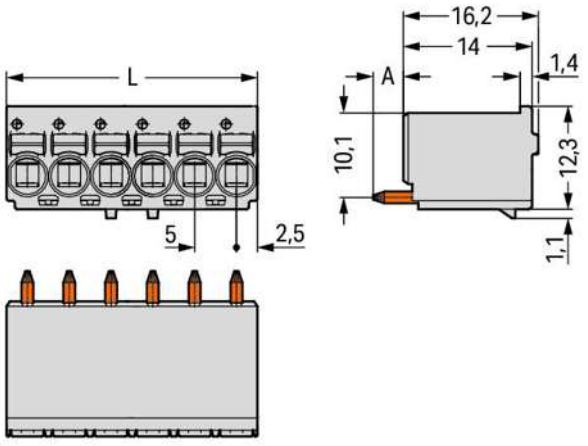


L = (pole number x pin spacing)

A = 3.6 mm THT solder pin

A = 2.4 mm THR solder pin

## Item description

- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require special tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Custom-installed solder pins

**Safety information 1:**

The **picoMAX® Pluggable Connection System** includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

## Data

## Electrical data



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## Ratings per IEC/EN 60664-1

| | |
|---|---|
| Ratings per | IEC/EN 60664-1 |
| Rated voltage (III / 3) | 250 V |
| Rated impulse voltage (III / 3) | 4 kV |
| Rated voltage (III / 2) | 320 V |
| Rated impulse voltage (III / 2) | 4 kV |
| Rated voltage (II / 2) | 320 V |
| Rated impulse voltage (II / 2) | 4 kV |
| Rated current | 16 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

## Approvals per UL 1059

| | |
|---|---|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 15 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |
| Approvals per | UL 1059 |

## Connection data

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-button |
| Solid conductor | 0,2 … 2,5 mm² / 24 … 12 AWG |
| Fine-stranded conductor | 0,2 … 2,5 mm² / 24 … 12 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0,25 … 1,5 mm² |
| Fine-stranded conductor with ferrule without plastic collar | 0,25 … 2,5 mm² |
| Strip length | 9 … 10 mm / 0.35 … 0.39 inch |
| Conductor entry angle to the PCB | 90 ° |
| No. of poles | 3 |
| Total number of connection points | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels | 1 |

## Geometrical Data

| | |
|---|---|
| Pin spacing | 5 mm / 0.197 inch |

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| | |
|---|---|
| Width | 15 mm / 0.591 inch |
| Height | 34 mm / 1.339 inch |
| Depth | 13,4 mm / 0.528 inch |
| Solder pin length | 3.6 mm |
| Solder pin diameter | 1.4 mm |
| Drilled hole diameter (tolerance) | 1,6 $^{(+0,1)}$ mm |

## Mechanical data

| | |
|---|---|
| Design | With gripping plate |

## Plug connection

| | |
|---|---|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type | for PCB |
| Mismating protection | No |
| Mating direction to the PCB | 90 ° |

## PCB contact

| | |
|---|---|
| PCB contact | THT |

## Material Data

| | |
|---|---|
| Color | light gray |
| Material group | I |
| Insulating material | Polyphthalamide (PPA GF) |
| 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 | 0.072 MJ |
| Weight | 3.6 g |

## Environmental Requirements

| | |
|---|---|
| Limit temperature range | -60 … +100 °C |

## Commercial data

| | |
|---|---|
| Product Group | 26 (picoMAX) |

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| | |
|---|---|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4050821163565 |
| Customs Tariff No. | 85366990990 |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **CSA**<br>DEKRA Certification B.V. | C22.2 | 2362521 |

### UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **UL**<br>Underwriters Laboratories Inc. | UL 1977 | 20190909-E45171 |

## Counterpart

## Compatible products

**check**

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

**tools**

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

## Downloads

## Documentation

### Additional Information

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

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## CAD/CAE-Data

### PCB Design

| | | |
|---|---|---|
| Symbol and Footprint 2092-1153 | 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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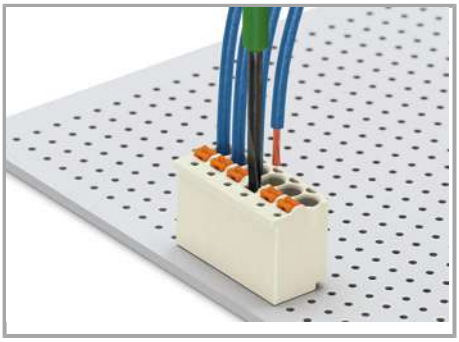
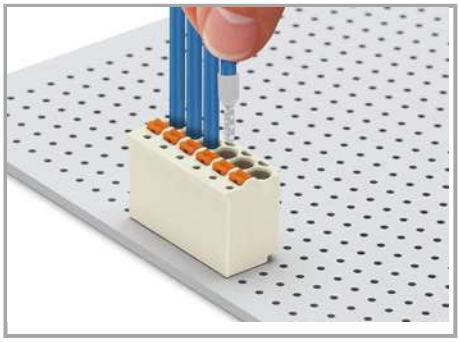


Terminating fine-stranded conductors and removing all conductor types via push-buttons.



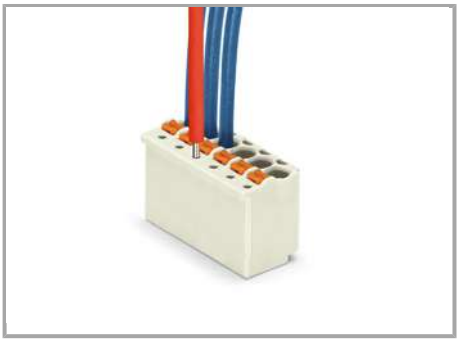
Terminating solid and ferruled conductors via push-in termination

### Marking

Pole marking via direct printing perpendicular to conductor entry.

Pole marking via factory direct printing.

### Testing



Testing with 1 mm Ø test pin, tip contact.

## Product family

**picoMAX eCOM**
Show all products from the family

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