

## Data sheet | Item number: 2092-1175

1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 5-pole; 1.4 mm Ø solder pin; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/2092-1175](http://www.wago.com/2092-1175)



 Picture differs from the item.

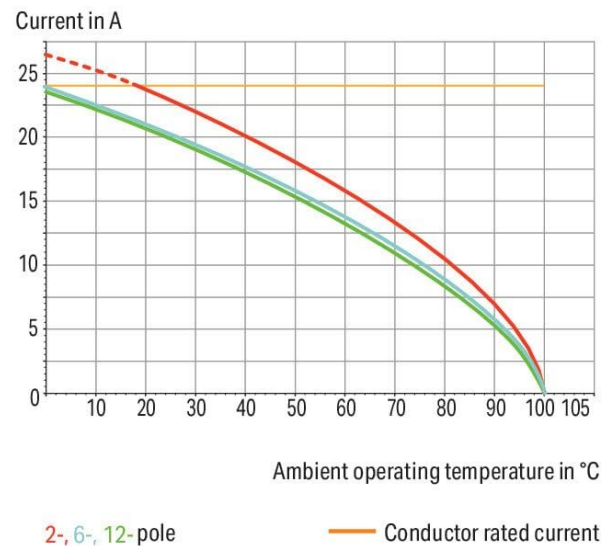
Color: 

### Derating Curve

1-conductor female connector eCOM (2092-1172)

Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"

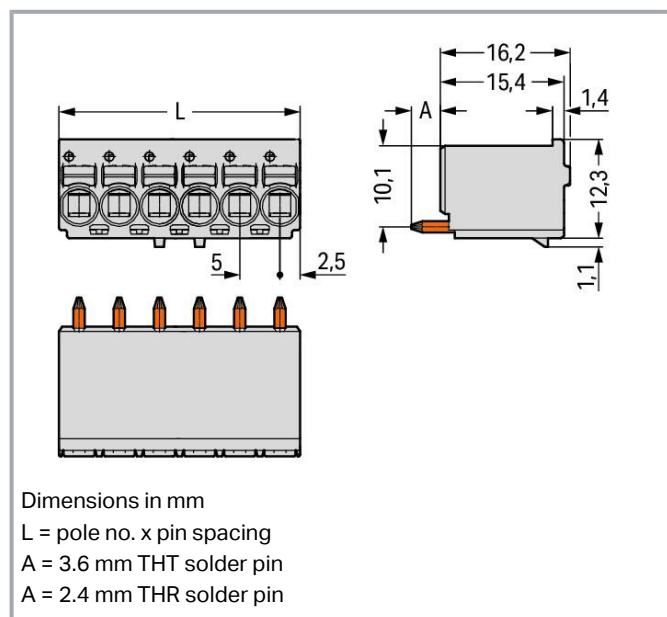
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

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## 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

## Data

### Notes

#### Safety information

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.

## Electrical data

### Ratings per IEC/EN

Ratings per

IEC/EN 60664-1

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|                               |  |
|-------------------------------|--|
| Nominal 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   |
| Nominal voltage (II/2)        | 630 V  |
| Rated surge voltage (II/2)    | 4 kV   |
| Rated current                 | 16 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) | 15 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

## Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

## Connection 1

|   |   |
|---|---|
| Connection technology                             | Push-in CAGE CLAMP®                         |
| Actuation type                                    | Push-button                                 |
| Actuation direction 1                             | Operation parallel to conductor entry       |
| Solid conductor                                   | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor                           | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm <sup>2</sup>                |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm <sup>2</sup>                |
| Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches          |
| Conductor connection direction to PCB             | 90 °  |
| Pole number                                       | 5   |

## Physical data

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

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|                                      |                          |
|--------------------------------------|--------------------------|
| Width                                | 25 mm / 0.984 inches     |
| Height                               | 16.2 mm / 0.638 inches   |
| Depth                                | 13.4 mm / 0.528 inches   |
| Solder pin length                    | 3.6 mm                   |
| Solder pin diameter                  | 1.4 mm                   |
| Drilled hole diameter with tolerance | 1.6 <sup>(+0.1)</sup> mm |

### Mechanical data

|                          |     |
|--------------------------|-----|
| Variable coding          | No  |
| Anti-rotation protection | Yes |

### Plug-in connection

|                                      |                         |
|--------------------------------------|-------------------------|
| Contact type (pluggable connector)   | Female connector/socket |
| Connector (connection type)          | for PCB                 |
| Mismating protection                 | No                      |
| Plugging without loss of pin spacing | Yes                     |
| Mating direction to the PCB          | 90 °                    |
| Locking of plug-in connection        | none                    |

### PCB contact

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

### Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | light gray   |
| Material group              | I  |
| Insulation material         | Polyphthalamide (PPA GF)                                 |
| Flammability class per UL94 | V0   |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                        |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                   |
| Contact plating             | Tin  |
| Fire load                   | 0.098 MJ   |
| Weight                      | 5.5 g  |

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

## Environmental requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
| Processing temperature  | -35 ... +60 °C  |

## Commercial data




|                       |                         |
|-----------------------|-------------------------|
| Product Group         | 26 (picoMAX Connectors) |
| eCl@ss 10.0           | 27-44-04-02             |
| eCl@ss 9.0            | 27-44-04-02             |
| ETIM 8.0              | EC002637                |
| ETIM 7.0              | EC002637                |
| ECCN                  | NO DATA                 |
| PU (SPU)              | 200 pcs                 |
| Packaging type        | box                     |
| Country of origin     | DE                      |
| GTIN                  | 4050821165132           |
| Customs tariff number | 85366990990             |

## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

## Approvals / Certificates

### General approvals

| Logo   | Approval                                       | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CB</b><br>DEKRA Certification B.V.          | IEC 61984                | NL-49737<br>/A1  |
|  | <b>CSA</b><br>DEKRA Certification B.V.         | C22.2 No. 158            | 2362521          |
|  | <b>CSA</b><br>DEKRA Certification B.V.         | C22.2                    | 2362521          |
|  | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |
|  | <b>KEMA/KEUR</b>                               | EN 61984                 | 71-              |

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DEKRA Certification B.V.

102261  
REV.2



UL  
Underwriters Laboratories Inc.

UL 1977

E45171

Optional accessories

Tool

Operating tool



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)

Testing and measuring

Testing accessories



Item no.: 735-500  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

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

Downloads

Documentation

Additional Information

|                        |            |        |          |
|------------------------|------------|--------|----------|
| Technical Section      | 2019 年4月3日 | pdf    | Download |
| Technical explanations |            | 2.1 MB |          |

CAD/CAE-Data

CAD data

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2092-1175 | URL | Download |
|------------------------|-----|----------|

PCB Design

|   |     |          |
|---|-----|----------|
| Symbol and Footprint via Ultra Librarian 2092-1175  | 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. |     |          |

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Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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

Symbol and Footprint via SamacSys 2092-1175

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:

- 3D (stp)
- Altium

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- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAE data

|                        |     |          |
|------------------------|-----|----------|
| ZUKEN Portal 2092-1175 | URL | Download |
|------------------------|-----|----------|

Asset Administration Shell

|                                      |     |          |
|--------------------------------------|-----|----------|
| Asset Administration Shell 2092-1175 | URL | Download |
|--------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2092-1175  
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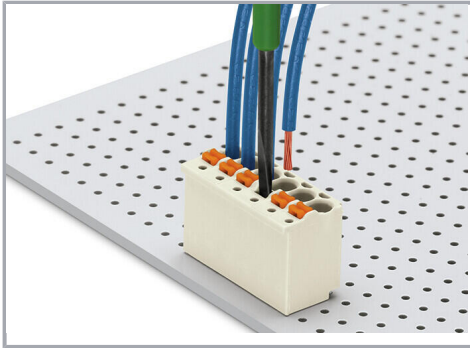
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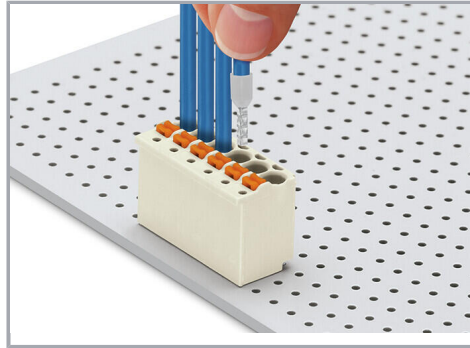
1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®;  
2.5 mm²; Pin spacing 5 mm; 5-pole; 1.4 mm Ø solder pin; 2,50 mm²; light gray

## Installation Notes

### Conductor termination



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



Solid and ferruled conductors are terminated by simply pushing them into unit.

### Marking



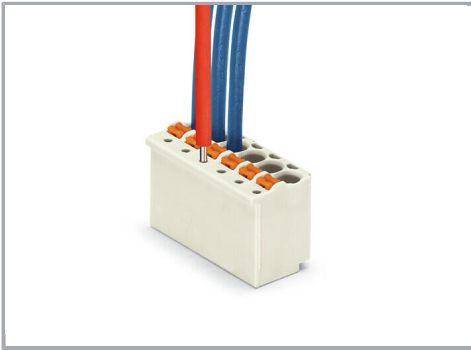
Pole marking via direct marking perpendicular to conductor entry.



Pole marking via factory direct marking.

### Testing

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



Testing via 1 mm Ø test pin – touch contact.

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