

**Data sheet | Item number: 2092-1178**

1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; 1.4 mm Ø solder pin; 2,50 mm<sup>2</sup>; light gray



[www.wago.com/2092-1178](http://www.wago.com/2092-1178)



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

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Dimensions in mm

L = pole no. 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

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- Custom-installed solder pins

## Data Notes

### Safety information

The **picoMAX<sup>®</sup> 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  |
|-------------------------------|---|
| 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) $\hat{=}$ 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          | 8 |
| Total number of potentials | 8 |
| Number of connection types | 1 |
| Number of levels           | 1 |

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## 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                                       | 8   |

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5 mm / 0.197 inches      |
| Width                                | 40 mm / 1.575 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 |
|-------------|-----|

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



## 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                   | 0.02 MJ                                |
| Weight                      | 8.9 g                                  |

## 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                |
| PU (SPU)              | 100 pcs                 |
| Packaging type        | box                     |
| Country of origin     | DE                      |
| GTIN                  | 4050821165156           |
| Customs tariff number | 85366990990             |

## Environmental Product Compliance

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

## Approvals / Certificates

General approvals

Certificate

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



| Logo | Approval                                       | Additional Approval Text | 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><br>DEKRA Certification B.V.   | EN 61984                 | 71-<br>102261<br>REV.2 |
|      | <b>UL</b><br>Underwriters Laboratories Inc.    | UL 1977                  | E45171                 |

## Optional accessories

### 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 0,5mm<sup>2</sup> [www.wago.com/735-500](http://www.wago.com/735-500)

#### 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)

## Downloads

### Documentation

#### Additional Information

2019 年4月3日

pdf  
2.0 MB

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## CAD/CAE-Data

### CAD data

2D/3D Models 2092-1178

URL

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### PCB Design

Symbol and Footprint 2092-1178

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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

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**CAE data**

ZUKEN Portal 2092-1178

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**Environmental Product Compliance**

**Compliance Search**

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## Installation Notes

### Conductor termination

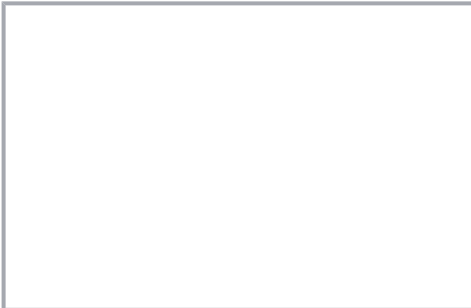


Terminating fine-stranded conductors and removing all conductor types via push-buttons.

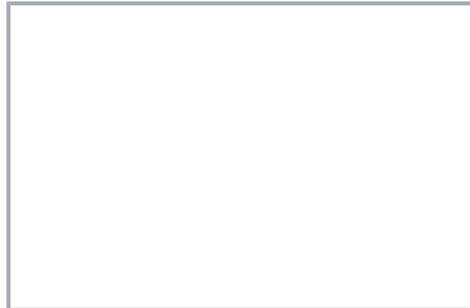


Solid and ferruled conductors are terminated by simply pushing them into unit.

### Marking

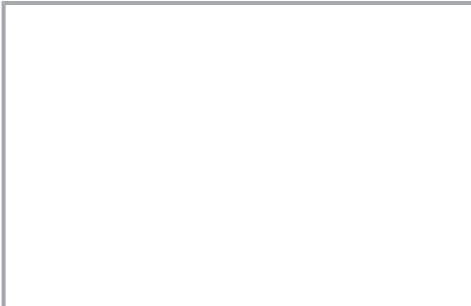


Pole marking via direct marking perpendicular to conductor entry.



Pole marking via factory direct marking.

### Testing



Testing via 1 mm Ø test pin – touch contact.

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