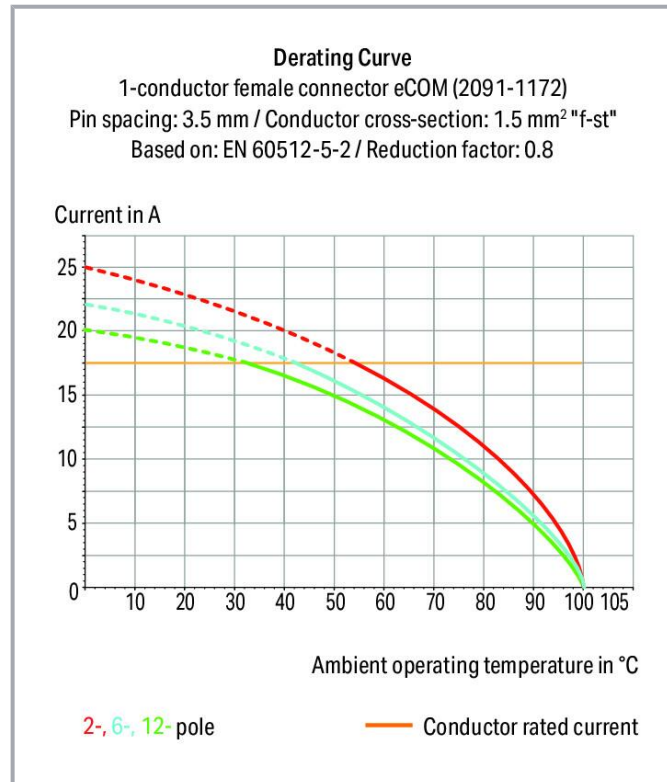
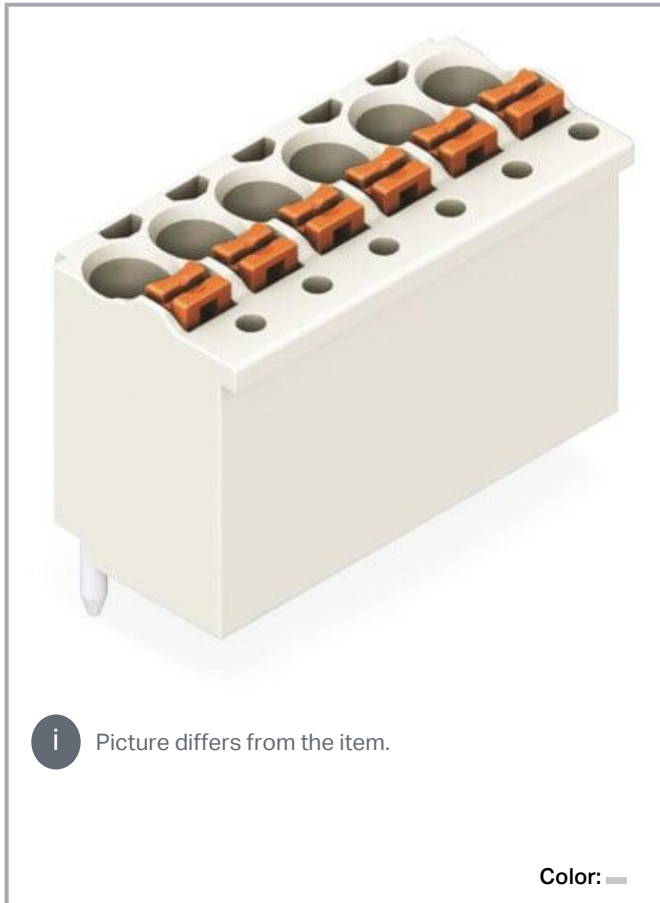


**Data sheet | Item number: 2091-1172/200-000/997-404**

1-conductor THR female connector straight; push-button; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 2-pole; 1.0 mm Ø solder pin; in tape-and-reel packaging; 1,50 mm<sup>2</sup>; light gray

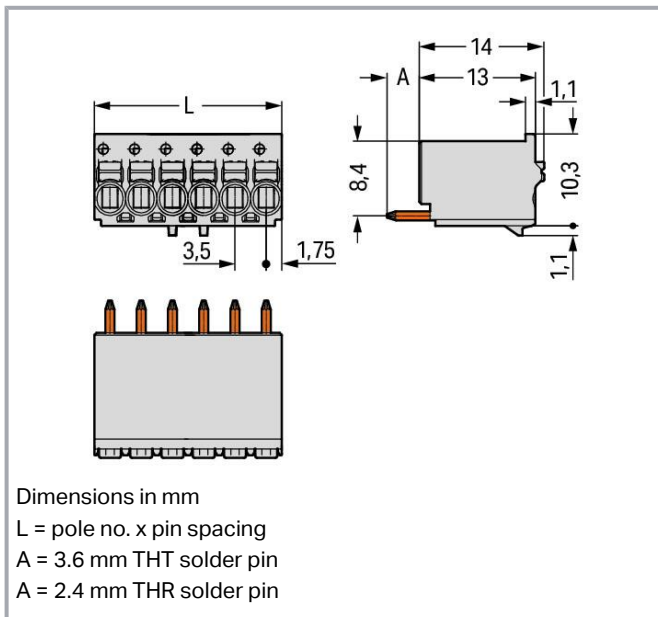
[www.wago.com/2091-1172/200-000/997-404](http://www.wago.com/2091-1172/200-000/997-404)



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 specialty tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Factory-installed, straight or angled solder pins allow horizontal or vertical mounting to the PCB

## 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)       | 160 V  |
| Rated impulse voltage (III/3) | 2.5 kV   |
| Rated voltage (III/2)         | 160 V  |
| Rated impulse voltage (III/2) | 2.5 kV   |
| Nominal voltage (II/2)        | 320 V  |
| Rated surge voltage (II/2)    | 2.5 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    |

## Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 2 |
| Total number of potentials | 2 |
| 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 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG |
| Fine-stranded conductor                           | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm <sup>2</sup>               |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm <sup>2</sup>                |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches           |
| Conductor connection direction to PCB             | 90 °  |
| Pole number                                       | 2   |

## Physical data

|             |                       |
|-------------|-----------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
|-------------|-----------------------|

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



|                                    |                          |
|------------------------------------|--------------------------|
| Width                              | 7 mm / 0.276 inches      |
| Height                             | 14 mm / 0.551 inches     |
| Depth                              | 11.4 mm / 0.449 inches   |
| Solder pin length                  | 2.4 mm                   |
| Solder pin diameter                | 1 mm                     |
| Plated through-hole diameter (THR) | 1.2 <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 | THR |
|-------------|-----|

## 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  |
| Weight                      | 1 g  |
| MSL per J-STD 020D          | 1  |

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




|                       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-44-04-02   |
| eCl@ss 9.0            | 27-44-04-02   |
| ETIM 8.0              | EC002637      |
| ETIM 7.0              | EC002637      |
| Recupel Type          |               |
| ECCN                  | NO DATA       |
| PU (SPU)              | 130 pcs       |
| Packaging type        | bag           |
| Country of origin     | DE            |
| GTIN                  | 4055143477222 |
| 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-49736 /A1     |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2                    | 2362521          |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-102260 REV.1  |
|  | <b>UL</b><br>Underwriters Laboratories Inc.  | UL 1977                  | E45171           |
|  | <b>UR</b>                                    | UL 1059                  | E45172           |


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




Underwriters Laboratories Inc.

Optional accessories

Testing and measuring

|  |  |
|--|--|
| Testing accessories  |  |
|  | <b>Item no.: 735-500</b><br>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> <a href="http://www.wago.com/735-500">www.wago.com/735-500</a> |

|  |  |
|--|--|
| Coding   |  |
| Coding   |  |
|  | <b>Item no.: 2091-1610</b><br>Coding key carrier; suitable for 3.5 mm pin spacing; orange <a href="http://www.wago.com/2091-1610">www.wago.com/2091-1610</a> |

|  |  |
|--|--|
| Tool   |  |
| Operating tool   |  |
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |

Downloads  
Documentation

Additional Information

|                        |             |          |          |
|------------------------|-------------|----------|----------|
| Technical Section      | 2019 年4月3 日 | pdf      | Download |
| Technical explanations |             | 2.1 MB   |          |
| THR Soldering Process  |             | pdf      | Download |
|                        |             | 556.8 kB |          |

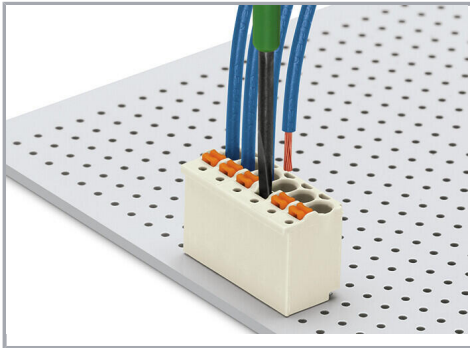
Installation Notes

Conductor termination

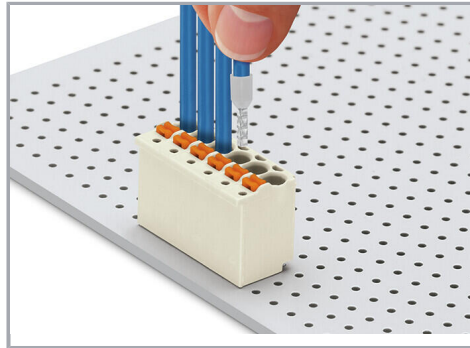
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Terminating fine-stranded conductors and removing all conductor types via push-buttons.



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

### Marking

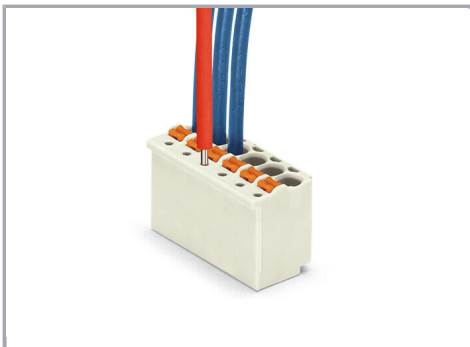


Pole marking via direct marking perpendicular to conductor entry.



Pole marking via factory direct marking.

### Testing



Testing via 1 mm Ø test pin – touch contact.

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