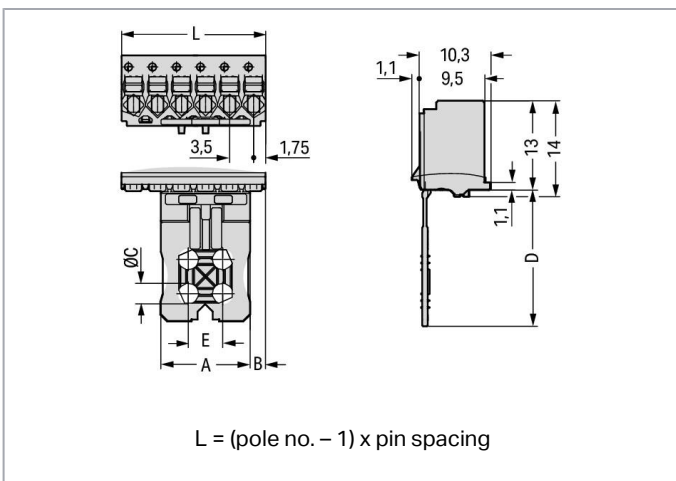
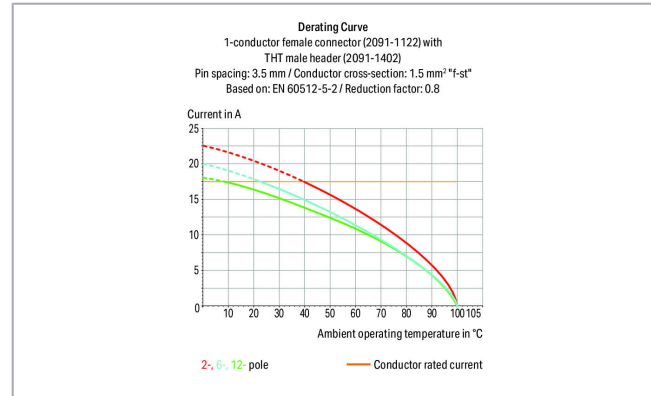
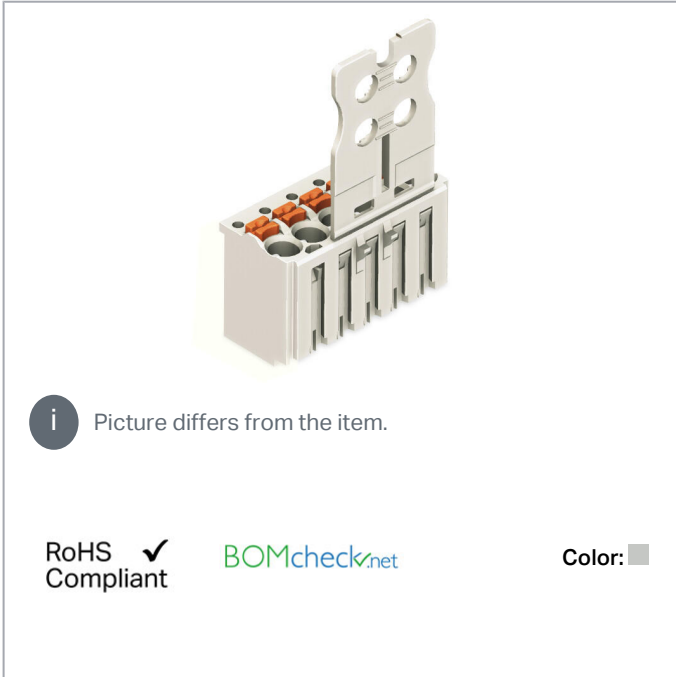


## Data sheet | Item number: 2091-1107

1-conductor female plug; Gripping plate; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 7-pole; 1,50 mm<sup>2</sup>; light gray



[www.wago.com/2091-1107](http://www.wago.com/2091-1107)



### Item description

- Universal connection of all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require special tools

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.



- Ability to wire while mated or unmated
- Testing parallel to conductor entry – tip contact
- Also available with gripping plates
- Integrated locking latches prevent accidental disconnection

#### Safety information 1:

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.

## Data

### Electrical data

#### Ratings per IEC/EN

| Ratings per                 | IEC/EN 60664-1  |
|-----------------------------|---|
| Nominal voltage (III/3)     | 160 V   |
| Rated surge voltage (III/3) | 2.5 kV  |
| Rated voltage (III/2)       | 160 V   |
| Rated surge 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) $\hat{=}$ 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) | 10 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

#### Ratings per CSA

| Approvals per | CSA |
|---------------|-----|
|               |     |

### Connection data

|                       |                                 |
|-----------------------|---------------------------------|
| Connection technology | Push-in CAGE CLAMP <sup>®</sup> |
|-----------------------|---------------------------------|

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



|   |   |
|---|---|
| Actuation type                                    | Push-button                                 |
| 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 inch             |
| Pole No.  | 7   |
| Total number of connection points                 | 7   |
| Total number of potentials                        | 7   |
| Number of connection types                        | 1   |
| Number of levels                                  | 1   |

### Physical data

|             |                      |
|-------------|----------------------|
| Pin spacing | 3.5 mm / 0.138 inch  |
| Width       | 24.5 mm / 0.965 inch |
| Height      | 33 mm / 1.299 inch   |
| Depth       | 11.4 mm / 0.449 inch |

### Mechanical data

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

### Plug-in connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type)        | for conductor           |
| Mismating protection               | No                      |

### Material data

|                             |  |
|-----------------------------|--|
| 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-plated                             |
| Weight                      | 3.7 g                                  |

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

## Environmental requirements



Limit temperature range -60 ... +100 °C

## Commercial data



|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4055143478830 |
| Customs tariff number | 85366990990   |

## Approvals / Certificates

### Country specific 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  |

### UL-Approvals

| Logo   | Approval                                    | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 1977                  | 20190909-E45171  |
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172-20100415  |

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

## Counterpart



Item no.2091-1427

THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 7-pole; light gray

[www.wago.com/2091-1427](http://www.wago.com/2091-1427)



Item no.2091-1407

THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole; light gray

[www.wago.com/2091-1407](http://www.wago.com/2091-1407)

## Compatible products

### check



Item no.: 735-500

Test pin; 1 mm Ø; with solder connection for test wire

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

### Coding



Item no.: 2091-1610

Coding key carrier; suitable for 3.5 mm pin spacing; orange

[www.wago.com/2091-1610](http://www.wago.com/2091-1610)

### tools



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

|                        |            |               |          |
|------------------------|------------|---------------|----------|
| Technical explanations | 3. 4. 2019 | pdf<br>2.0 MB | Download |
|------------------------|------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2091-1107 | URL | Download |
|------------------------|-----|----------|

#### CAE data

|                        |     |          |
|------------------------|-----|----------|
| ZUKEN Portal 2091-1107 | URL | Download |
|------------------------|-----|----------|

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

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2091-1107

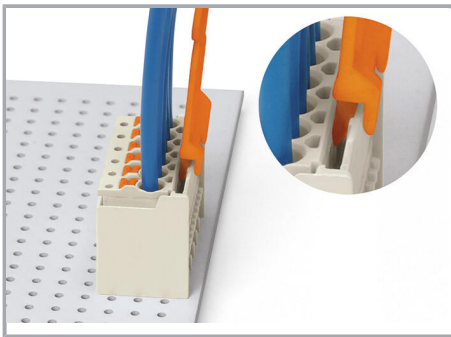
URL

Download

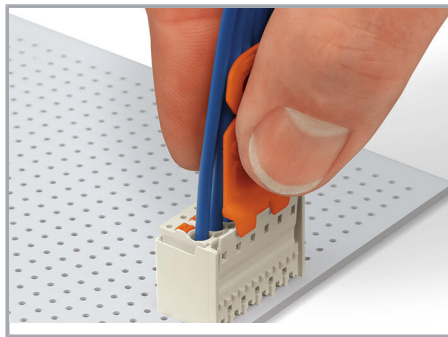
1-conductor female plug; Gripping plate; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 7-pole; 1,50 mm<sup>2</sup>; light gray

## Installation Notes

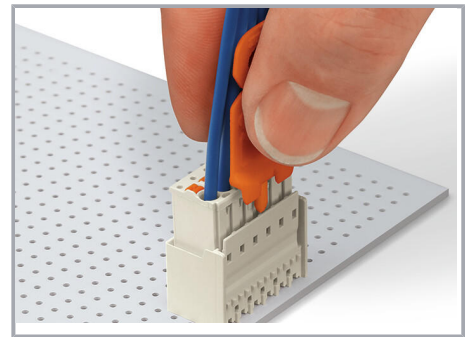
### Locking system



Disconnecting a female connector via unlocking tool. Plug unlocking tool into the male header's locking latch.

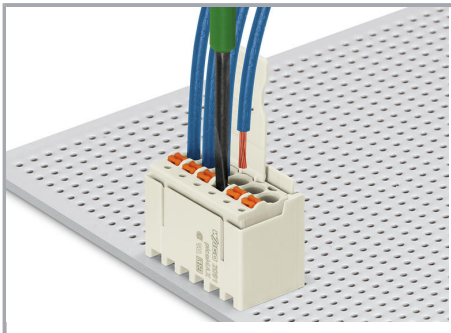


Insert unlocking tool until it hits the backstop. Wedge opens locking latches.

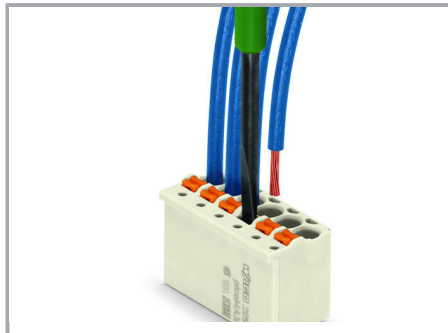


Pull on both unlocking tool and conductors to remove female connector from male header.

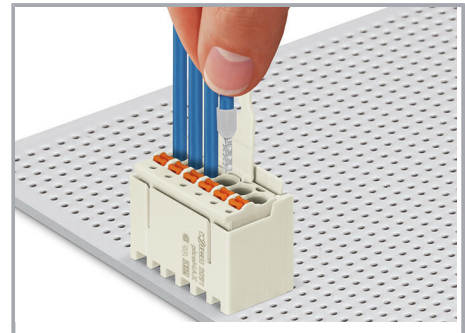
### Conductor termination



Inserting fine-stranded conductor into mated female connector via push-button.



Inserting a fine-stranded conductor into an unmated female connector via push-button.



Inserting solid and ferruled conductors via push-in termination.

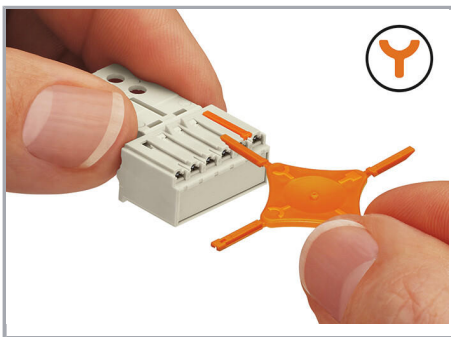
### Marking

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



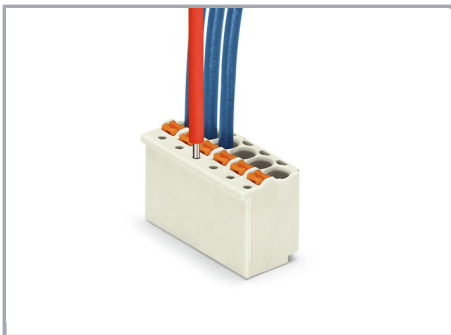
Pole marking via factory direct marking.

### Coding



Coding a female connector (via coding key carrier and two keys for female connector, see symbol).

### Testing



Testing via 1 mm Ø test pin – touch contact.

### Product family

[\*<i>picoMAX</i><sup>®</sup>\*](#) 3.5  
[Show all products from the family](#)

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