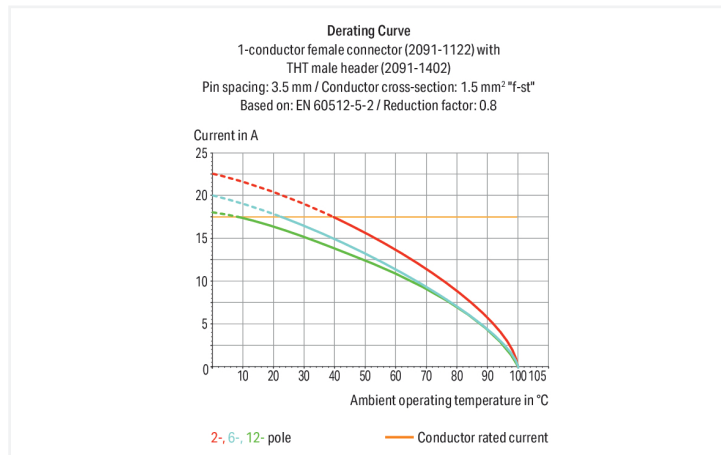


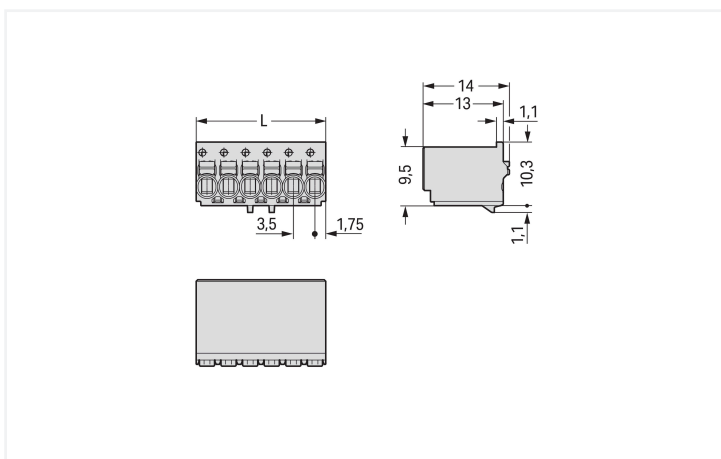
## Data Sheet | Item Number: 2091-1127

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 7-pole; 1,50 mm<sup>2</sup>; light gray

<https://www.wago.com/2091-1127>



Color: ■ light gray



Dimensions in mm

L = pole no. x pin spacing

Female connector, 2091 Series, with 3.5 mm pin spacing

Our female connector (item number 2091-1127) is designed for seamless electrical installations. Strip lengths must be between 8 and 9 mm when connecting conductors to this female connector. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Dimensions: (24.5 x 14 x 11.4) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 1.5 mm<sup>2</sup>.

The contact surface is coated with tin.

## 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. 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.

## Safety information 2

The use of ferrules is recommended for applications with higher requirements.

To prevent excessive force on the clamping point, effective cable strain relief must be used.

## Variants:

Direct marking  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

| Ratings per                     | IEC/EN 60664-1 |        |        | Approvals per | UL 1059 |   |       |
|---------------------------------|----------------|--------|--------|---------------|---------|---|-------|
|                                 | III            | III    | II     |               | B       | C | D     |
| Overvoltage category            | III            | III    | II     | Use group     | B       | C | D     |
| Pollution degree                | 3              | 2      | 2      | Rated voltage | 300 V   | - | 300 V |
| Nominal voltage                 | 160 V          | 160 V  | 320 V  | Rated current | 10 A    | - | 10 A  |
| Rated impulse withstand voltage | 2.5 kV         | 2.5 kV | 2.5 kV |               |         |   |       |
| Rated current                   | 10 A           | 10 A   | 10 A   |               |         |   |       |

## Connection Data

|                            |   |   |   |
|----------------------------|---|---|---|
| Clamping units             | 7 | <b>Connection 1</b>                               |   |
| Total number of potentials | 7 |   |   |
| Number of connection types | 1 |   |   |
| Number of levels           | 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           |
|                            |   | Pole number                                       | 7   |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 24.5 mm / 0.965 inches |
| Height      | 14 mm / 0.551 inches   |
| Depth       | 11.4 mm / 0.449 inches |

## Mechanical data

|                          |     |
|--------------------------|-----|
| Variable coding          | Yes |
| Anti-rotation protection | Yes |

### Plug-in connection

|                                      |                         |
|--------------------------------------|-------------------------|
| Contact type (pluggable connector)   | Female connector/socket |
| Connector (connection type)          | for conductor           |
| Mismating protection                 | No                      |
| Plugging without loss of pin spacing | Yes                     |

### Material data

|                                    |  |
|------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | light gray   |
| Material group                     | I  |
| Insulation material (main housing) | 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                          | 0.038 MJ   |
| Weight                             | 3.6 g  |

### Environmental requirements

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

### Commercial data

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 100 pcs       |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4055143428644 |
| Customs tariff number | 85366990990   |

### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 39121409             |
| eCl@ss 10.0 | 27-14-11-06          |
| eCl@ss 9.0  | 27-14-11-06          |
| ETIM 9.0    | EC001284             |
| ETIM 10.0   | EC001284             |
| ECCN        | NO US CLASSIFICATION |

### Environmental Product Compliance

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

## Approvals / Certificates

### General approvals



| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CB<br>DEKRA Certification B.V.        | IEC 61984     | NL-89884         |
| CSA<br>CSA Group                      | C22.2         | 2362521          |
| CSA<br>DEKRA Certification B.V.       | C22.2 No. 158 | 2362521          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984      | 71-129873        |
| UR<br>Underwriters Laboratories Inc.  | UL 1059       | E45172           |

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 2091-1127



## Documentation

### Additional Information

Technical Section

03.04.2019

pdf  
2027.26 KB



## CAD/CAE-Data

### CAD data

2D/3D Models  
2091-1127



### CAE data

ZUKEN Portal 2091-1127



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Male connector/plug



##### Item No.: 2091-1427/200-000

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



##### Item No.: 2091-1407/200-000

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



##### Item No.: 2091-1727/200-000

THR pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 7-pole; black



##### Item No.: 2091-1707/200-000

THR pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole; black



##### Item No.: 2091-1427

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



##### Item No.: 2091-1407

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



##### Item No.: 2091-1727

THT pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 7-pole; black



##### Item No.: 2091-1707

THT pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole; black

## 1.2 Optional Accessories

### 1.2.1 Ferrule

#### 1.2.1.1 Ferrule



**Item No.: 216-301**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-131**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-132**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; uninsulated; electro-tin plated



**Item No.: 216-101**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-202**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-122**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-203**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated



**Item No.: 216-204**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-104**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored

## 1.2.2 Test and measurement

### 1.2.2.1 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>

## 1.2.3 Tool

### 1.2.3.1 Operating tool

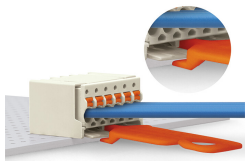


**Item No.: 210-719**

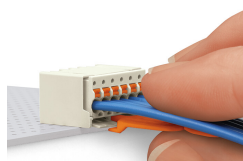
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

## Installation Notes

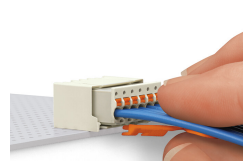
### Locking system



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

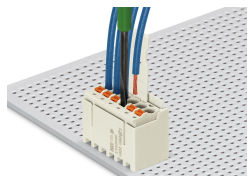


Insert unlocking tool until it hits the back-stop. Wedge opens locking latches.



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

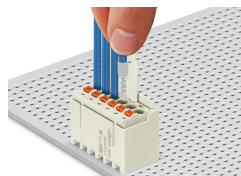
## Conductor termination



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



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.