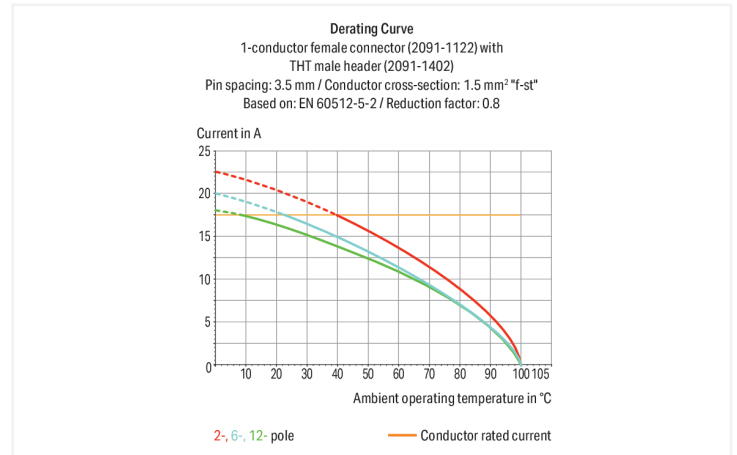


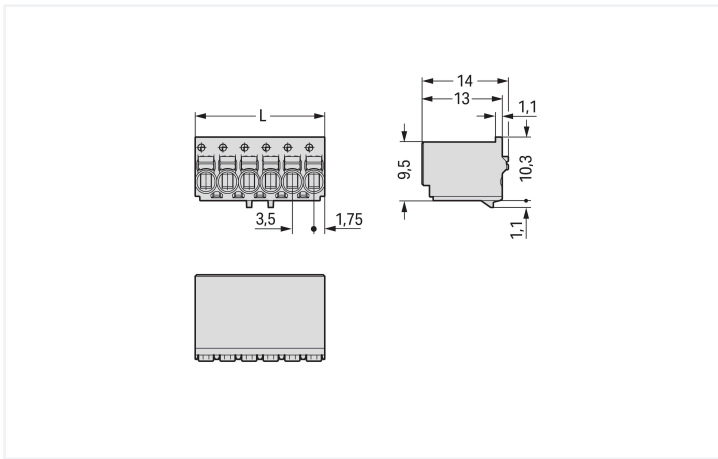
Data Sheet | Item Number: 2091-1122

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; light gray

<https://www.wago.com/2091-1122>



Color: ■ light gray



Dimensions in mm

L = pole no. x pin spacing

Female connector, 2091 Series, light gray

Our female connector (item number 2091-1122) is designed for seamless electrical installations. Conductors should only be connected to this female connector if their strip length is between 8 and 9 mm. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Both solid and fine-stranded conductors with ferrules can be plugged in without the need for tools—all thanks to its pluggable design. The dimensions are (7 x 14 x 11.4) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.2 mm² to 1.5 mm².

Tin is used for coating the contact surfaces.

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 | 2 | Connection 1 | |
| Total number of potentials | 2 | Connection technology | Push-in CAGE CLAMP® |
| Number of connection types | 1 | Actuation type | Push-button |
| Number of levels | 1 | Actuation direction 1 | Operation parallel to conductor entry |
| | | Solid conductor | 0.2 ... 1.5 mm ² / 24 ... 14 AWG |
| | | Fine-stranded conductor | 0.2 ... 1.5 mm ² / 24 ... 14 AWG |
| | | Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm ² |
| | | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm ² |
| | | Strip length | 8 ... 9 mm / 0.31 ... 0.35 inches |
| | | Pole number | 2 |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 7 mm / 0.276 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) | Information on material specifications can be found here |
| 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 _{Cu}) |
| Contact Plating | Tin |
| Fire load | 0.012 MJ |
| Weight | 0.9 g |

Environmental requirements

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

Commercial data

| | |
|-----------------------|-------------------------|
| Product Group | 26 (picoMAX Connectors) |
| PU (SPU) | 200 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821160755 |
| 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 DEKRA Certification B.V. | IEC 61984 | NL-89884 |
| CSA CSA Group | C22.2 | 2362521 |
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 2362521 |
| KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 71-129873 |
| UR Underwriters Laboratories Inc. | UL 1059 | E45172 |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1122



Documentation

Additional Information

| | | | |
|-------------------|------------|-------------------|--|
| Technical Section | 03.04.2019 | pdf 2027.26 KB | |
|-------------------|------------|-------------------|--|

CAD/CAE-Data

CAD data

2D/3D Models
2091-1122



CAE data

ZUKEN Portal 2091-1122



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



Item No.: 2091-1522/020-000

1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; Integrated release lever; 1,50 mm²; light gray



Item No.: 2091-1502/002-000

1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate; 1,50 mm²; light gray



Item No.: 2091-1522/002-000

1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Integrated release lever; 1,50 mm²; light gray



Item No.: 2091-1632/024-000

Panel feedthrough male connector; clamping collar; 1.5 mm²; 2-pole; Pin spacing 3.5 mm; light gray

1.1.1 Male connector/plug



Item No.: 2091-1422/205-000
THR male header; 1.0 mm Ø solder pin; angled; clamping collar; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1422/200-000/997-405
THR male header; 1.0 mm Ø solder pin; angled; in tape-and-reel packaging; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1422/200-604
THR male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; black

Item No.: 2091-1422/200-000
THR male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; light gray



Item No.: 2091-1402/205-000
THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1402/200-000
THR male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1722/200-000
THR pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; black

Item No.: 2091-1702/200-000
THR pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 2-pole; black



Item No.: 2091-1422/005-000
THT male header; 1.0 mm Ø solder pin; angled; clamping collar; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1422
THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1402/005-000
THT male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1402
THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 2-pole; light gray



Item No.: 2091-1722
THT pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; black

Item No.: 2091-1702
THT pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 2-pole; black

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 2091-1610
Coding key carrier; suitable for 3.5 mm pin spacing; orange

1.2.2 Ferrule

1.2.2.1 Ferrule



Item No.: 216-301
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-131
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

Item No.: 216-302
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-132
Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated



Item No.: 216-101
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item No.: 216-202
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-102
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored

Item No.: 216-122
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored



Item No.: 216-203
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Item No.: 216-204
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-104
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

1.2.3 Strain relief

1.2.3.1 Gripping plate



Item No.: 2091-1600/002-000

Gripping plate with sliding connector release; for female and male connectors; 2 parts; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1600

Gripping plate; for female and male connectors; 1 part; Pin spacing 3.5 mm; 2-pole; light gray

1.2.4 Test and measurement

1.2.4.1 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 0,5mm²

1.2.5 Tool

1.2.5.1 Operating tool



Item No.: 210-719

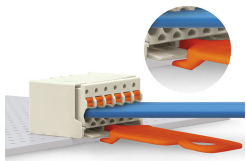
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 2092-1630

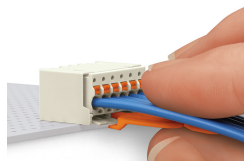
Unlocking tool; orange

Installation Notes

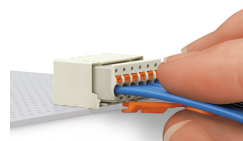
Locking system



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

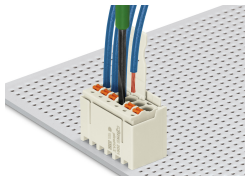


Insert unlocking tool until it hits the backstop. Wedge opens locking latches.



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

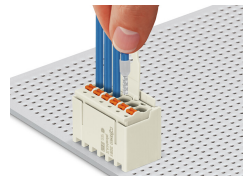
Conductor termination



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



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.