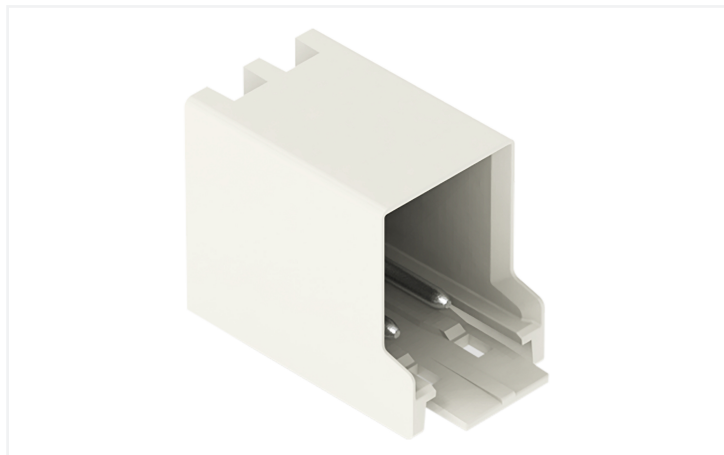


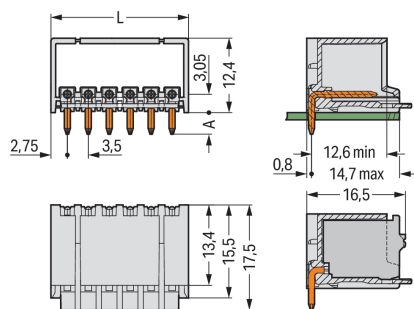
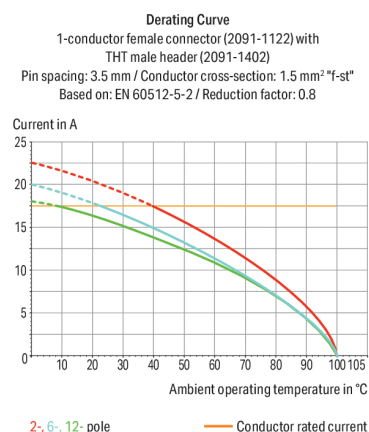
THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; light gray

<https://www.wago.com/2091-1422>



Color:  light gray

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 2.0 \text{ mm}$   $A = 3.6 \text{ mm}$  THT solder pin  $A = 2.4 \text{ mm}$  THR solder pin

Male connector, 2091 Series, with 3.5 mm pin spacing

This male connector (item number 2091-1422) simplifies electrical installations. Dimensions: (9 x 16 x 17.5) mm (width x height x depth).

Tin is used for coating the contact surfaces. THT is used to solder the pcb connector.

## 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.

Variants:

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        |        |               |               |   |
| Overvoltage category            | III    | III            | II     | Use group     | B             | C |
| Pollution degree                | 3      | 2              | 2      | Rated voltage | 300 V         | - |
| Nominal voltage                 | 160 V  | 160 V          | 320 V  | Rated current | 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            |   |              |   |
|----------------------------|---|--------------|---|
| Total number of potentials | 2 | Connection 1 |   |
| Number of connection types | 1 | Pole number  | 2 |
| Number of levels           | 1 |              |   |

| Physical data           |                        |
|-------------------------|------------------------|
| Pin spacing             | 3.5 mm / 0.138 inches  |
| Width                   | 9 mm / 0.354 inches    |
| Height                  | 16 mm / 0.63 inches    |
| Height from the surface | 12.4 mm / 0.488 inches |
| Depth                   | 17.5 mm / 0.689 inches |
| Solder pin length       | 3.6 mm                 |
| Solder pin diameter     | 1 mm                   |
| Drilled hole diameter   | 1.2 (+0.1) mm          |

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

| Plug-in connection                   |                     |
|--------------------------------------|---------------------|
| Contact type (pluggable connector)   | Male connector/plug |
| Connector (connection type)          | for PCB             |
| Mismating protection                 | No                  |
| Plugging without loss of pin spacing | Yes                 |
| Mating direction to the PCB          | 0°                  |
| Locking of plug-in connection        | Locking latch       |

| PCB contact |     |
|-------------|-----|
| PCB contact | THT |

| 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                                                                       |
| Contact material                   | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.011 MJ                                                                 |
| Weight                             | 1 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                  | 4050821161073           |
| Customs tariff number | 85366930000             |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-44-04-02          |
| eCl@ss 9.0             | 27-44-04-02          |
| ETIM 9.0               | EC002637             |
| ETIM 10.0              | EC002637             |
| 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        |

Downloads

Environmental Product Compliance

| Compliance Search                          |
|--------------------------------------------|
| Environmental Product Compliance 2091-1422 |



Documentation

| Additional Information |            |                   |                                                                                   |
|------------------------|------------|-------------------|-----------------------------------------------------------------------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB |  |

CAD/CAE-Data

| CAD data                                                                                                    | CAE data                                                                                                   |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 2D/3D Models<br>2091-1422  | ZUKEN Portal 2091-1422  |

| PCB Design                                                                                                                                 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|
| Symbol and Footprint via<br>SamacSys 2091-1422            |  |
| Symbol and Footprint via<br>Ultra Librarian<br>2091-1422  |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

|                                                                                                                                                                                                  |                                                                                                                                                                                                           |                                                                                                                                                                                                                            |                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                               |                                                                                                                        |                                                                                                                                         |                                                                                    |
| <b>Item No.: 2091-1122</b><br>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                                          | <b>Item No.: 2091-1102/002-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate sliding connector release; 1,50 mm²; light gray | <b>Item No.: 2091-1102/002-1000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate sliding connector release; direct marking; 1,50 mm²; light gray | <b>Item No.: 2091-1102</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate; 1,50 mm²; light gray |
|                                                                                                               |                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                         |
| <b>Item No.: 2091-1102/000-1000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate; direct marking; 1,50 mm²; light gray | <b>Item No.: 2091-1102/000-5000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate; direct marking; 1,50 mm²; light gray          |                                                                                                                                                                                                                            |                                                                                                                                                                         |

1.2 Optional Accessories

1.2.1 Coding

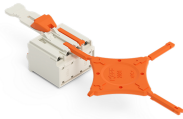
1.2.1.1 Coding

|                                                                                           |
|-------------------------------------------------------------------------------------------|
|        |
| <b>Item No.: 2091-1610</b><br>Coding key carrier; suitable for 3.5 mm pin spacing; orange |



Installation Notes

Coding



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