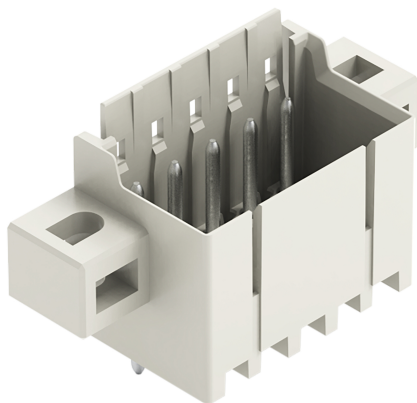


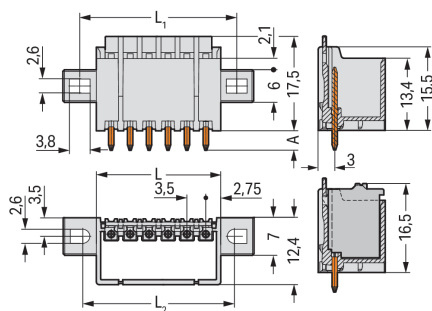
## Data Sheet | Item Number: 2091-1405/005-000

THT male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 5-pole; light gray

<https://www.wago.com/2091-1405/005-000>



Color: ■ light gray



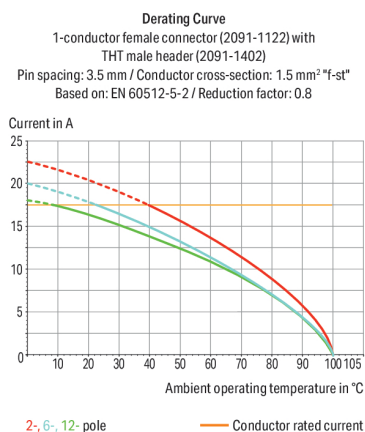
Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 2.0 \text{ mm}$   
 $L_1 = (\text{pole no.} \times \text{pin spacing}) + 7.8 \text{ mm}$   
 $L_2 = (\text{pole no.} \times \text{pin spacing}) + 6.8 \text{ mm}$   
 $A = 3.6 \text{ mm}$  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 2091-1405/005-000) provides hassle-free electrical installations. The item's dimensions are (31.5 x 21.1 x 12.4) mm (width x height x depth).

The contact surface is coated with tin. THT is used to assemble the pcb connector.





| Notes              |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | The <b>picoMAX® Pluggable Connection System</b> 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:          | Direct marking<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                                                                                                        |

| Electrical data                 |  |                |        |        |               |               |
|---------------------------------|--|----------------|--------|--------|---------------|---------------|
| Ratings per                     |  | IEC/EN 60664-1 |        |        | Approvals per |               |
|                                 |  | III            | III    | II     | UL 1059       |               |
| 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            |   |                                      |
|----------------------------|---|--------------------------------------|
| Total number of potentials | 5 | <b>Connection 1</b><br>Pole number 5 |
| Number of connection types | 1 |                                      |
| Number of levels           | 1 |                                      |

| Physical data           |                        |
|-------------------------|------------------------|
| Pin spacing             | 3.5 mm / 0.138 inches  |
| Width                   | 31.5 mm / 1.24 inches  |
| Height                  | 21.1 mm / 0.831 inches |
| Height from the surface | 17.5 mm / 0.689 inches |
| Depth                   | 12.4 mm / 0.488 inches |
| Solder pin length       | 3.6 mm                 |
| Solder pin diameter     | 1 mm                   |
| !                       | 1.2 (+0.1) mm          |

| Mechanical data                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Variable coding                         | Yes                                     |
| Mounting type                           | Mounting flange                         |
| Mounting type                           | Feed-through mounting<br>Panel mounting |
| Anti-rotation protection                | Yes                                     |
| Suitable for through-panel applications | 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          | 90 °                |
| 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                          |  | 0.054 MJ                                                                 |
| Weight                             |  | 2.3 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                  |  | 4050821161462           |
| 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                                                                                                                                                                                                                                                                                                                              |               |                  | General approvals              |         |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|--------------------------------|---------|--------|
|     |               |                  | UR                             | UL 1059 | E45172 |
|                                                                                                                                                                                                                                                                                                                                                |               |                  | Underwriters Laboratories Inc. |         |        |
| 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 | 2091-1405/005-000 |  |  |

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

| CAD/CAE-Data |                   |              |                   |
|--------------|-------------------|--------------|-------------------|
| CAD data     |                   | CAE data     |                   |
| 2D/3D Models | 2091-1405/005-000 | ZUKEN Portal | 2091-1405/005-000 |
|              |                   |              |                   |

| PCB Design                               |  |
|------------------------------------------|--|
| Symbol and Footprint via SamacSys        |  |
| 2091-1405/005-000                        |  |
| Symbol and Footprint via Ultra Librarian |  |
| 2091-1405/005-000                        |  |

| 1 Compatible Products         |  |
|-------------------------------|--|
| 1.1 System counterpart        |  |
| 1.1.1 Female connector/socket |  |



|                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 2091-1125</b>                                                                                                |
| 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 1,50 mm²; light gray |

1.2 Optional Accessories

1.2.1 Coding

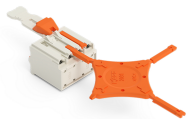
1.2.1.1 Coding



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

Installation Notes

Coding



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