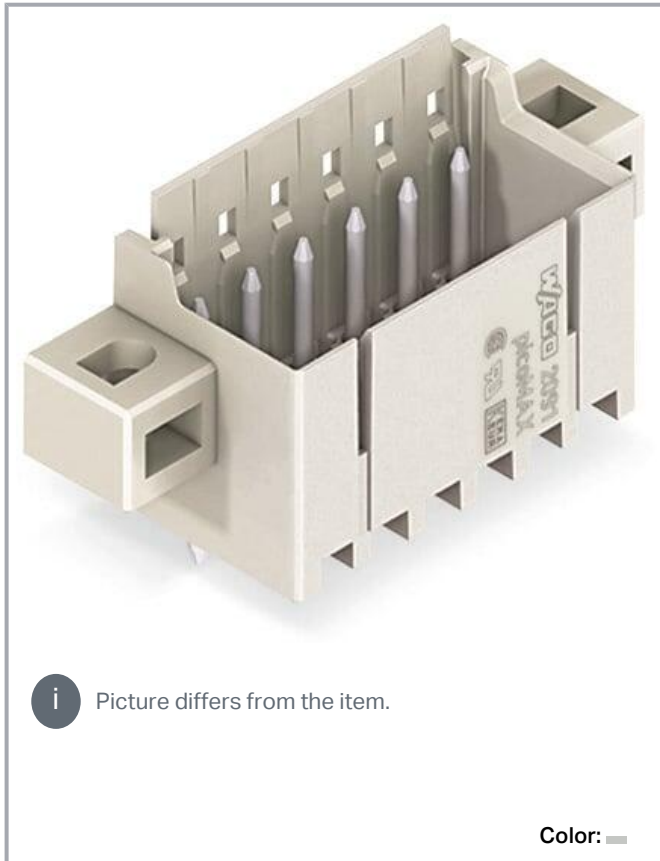


## Data sheet | Item number: 2091-1410/205-000

THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 10-pole; light gray

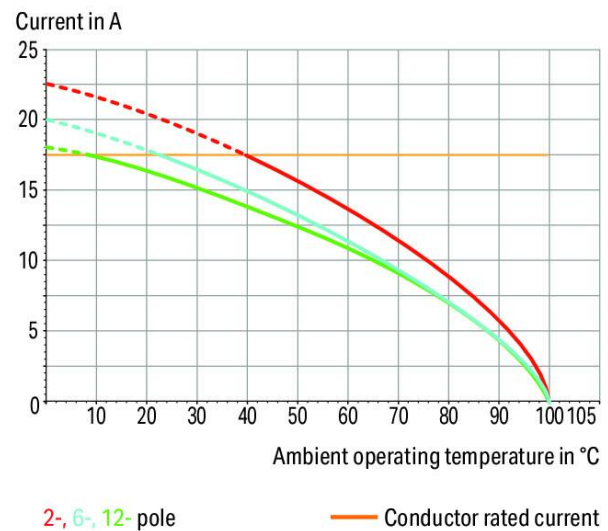
[www.wago.com/2091-1410/205-000](http://www.wago.com/2091-1410/205-000)



 Picture differs from the item.

Color: 

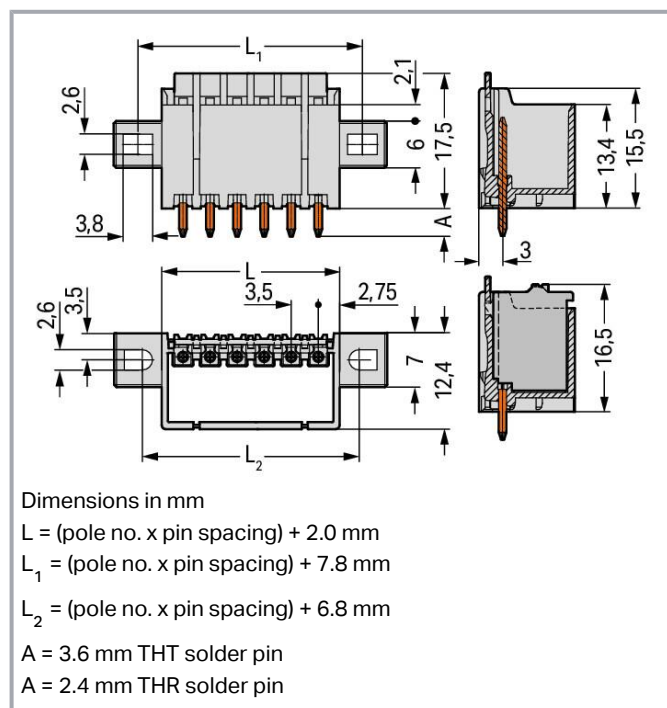
**Derating Curve**  
1-conductor female connector (2091-1122) with  
THT male header (2091-1402)  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

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## Item description

- Assembly of female connectors without loss of poles, allowing different functions to be divided within one male header ( $\geq 4$  poles)
- Coding pins inserted into the header interface prevent mismating, allowing subsequent coding in panel feedthrough applications
- The female connector is fully shrouded by the male header's housing, providing vibration resistance up to 20 g

## Data

### 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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

#### Variants:

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

## Electrical data

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

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## Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1                                            |
|-------------------------------|-----------------------------------------------------------|
| Nominal voltage (III/3)       | 160 V                                                     |
| Rated impulse voltage (III/3) | 2.5 kV                                                    |
| Rated voltage (III/2)         | 160 V                                                     |
| Rated impulse 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) ≙ 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    |

## Connection data

|                            |    |
|----------------------------|----|
| Total number of potentials | 10 |
| Number of connection types | 1  |
| Number of levels           | 1  |

## Connection 1

|             |    |
|-------------|----|
| Pole number | 10 |
|-------------|----|

## Physical data

|                                    |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 3.5 mm / 0.138 inches    |
| Width                              | 49 mm / 1.929 inches     |
| Height                             | 19.9 mm / 0.783 inches   |
| Height from the surface            | 17.5 mm / 0.689 inches   |
| Depth                              | 12.4 mm / 0.488 inches   |
| Solder pin length                  | 2.4 mm                   |
| Solder pin diameter                | 1 mm                     |
| Plated through-hole diameter (THR) | 1.2 <sup>(+0.1)</sup> mm |

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## Mechanical data

|                          |                                         |
|--------------------------|-----------------------------------------|
| Variable coding          | Yes                                     |
| Mounting type            | Mounting flange                         |
| Mounting type            | Feed-through mounting<br>Panel mounting |
| 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 | No                  |
| Mating direction to the PCB          | 90 °                |
| Locking of plug-in connection        | Locking latch       |

## PCB contact

|             |     |
|-------------|-----|
| PCB contact | THR |
|-------------|-----|

## Material data

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | light gray                                               |
| Material group              | I                                                        |
| Insulation material         | Polyphthalamide (PPA GF)                                 |
| Flammability class per UL94 | V0                                                       |
| Contact material            | Electrolytic copper ( $E_{Cu}$ )                         |
| Contact plating             | Tin                                                      |
| Fire load                   | 0.084 MJ                                                 |
| Weight                      | 3.7 g                                                    |
| MSL per J-STD 020D          | 1                                                        |

## Environmental requirements

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

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## Commercial data

|                       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-44-04-02   |
| eCl@ss 9.0            | 27-44-04-02   |
| ETIM 8.0              | EC002637      |
| ETIM 7.0              | EC002637      |
| ECCN                  | NO DATA       |
| PU (SPU)              | 100 pcs       |
| Packaging type        | box           |
| Country of origin     | DE            |
| GTIN                  | 4050821412106 |
| Customs tariff number | 85366930000   |

## Environmental Product Compliance

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

## Approvals / Certificates

### General 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  |
|  | <b>UL</b><br>Underwriters Laboratories Inc.  | UL 1977                  | E45171           |

## Counterpart



Item no. 2091-1130

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 1,50 mm²; light gray

[www.wago.com/2091-1130](http://www.wago.com/2091-1130)

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## Optional accessories

### Coding

|                                                                                 |                                                                                    |                                                                    |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Coding                                                                          |                                                                                    |                                                                    |
|  | Item no.: 2091-1610<br>Coding key carrier; suitable for 3.5 mm pin spacing; orange | <a href="http://www.wago.com/2091-1610">www.wago.com/2091-1610</a> |

## Downloads

### Documentation

#### Additional Information

|                        |            |          |          |
|------------------------|------------|----------|----------|
| Technical Section      | 2019 年4月3日 | pdf      | Download |
| Technical explanations |            | 2.1 MB   |          |
| THR Soldering Process  |            | pdf      | Download |
|                        |            | 556.8 kB |          |

## CAD/CAE-Data

### CAD data

|                                |     |          |
|--------------------------------|-----|----------|
| 2D/3D Models 2091-1410/205-000 | URL | Download |
|--------------------------------|-----|----------|

### CAE data

|                                |     |          |
|--------------------------------|-----|----------|
| ZUKEN Portal 2091-1410/205-000 | URL | Download |
|--------------------------------|-----|----------|

### Asset Administration Shell

|                                              |     |          |
|----------------------------------------------|-----|----------|
| Asset Administration Shell 2091-1410/205-000 | URL | Download |
|----------------------------------------------|-----|----------|

## Environmental Product Compliance

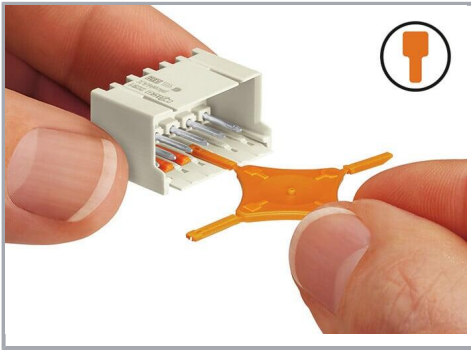
### Compliance Search

|                                                                                                          |     |          |
|----------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 2091-1410/205-000                                                       | URL | Download |
| THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 10-pole; light gray |     |          |

## Installation Notes

### Coding

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



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

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

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