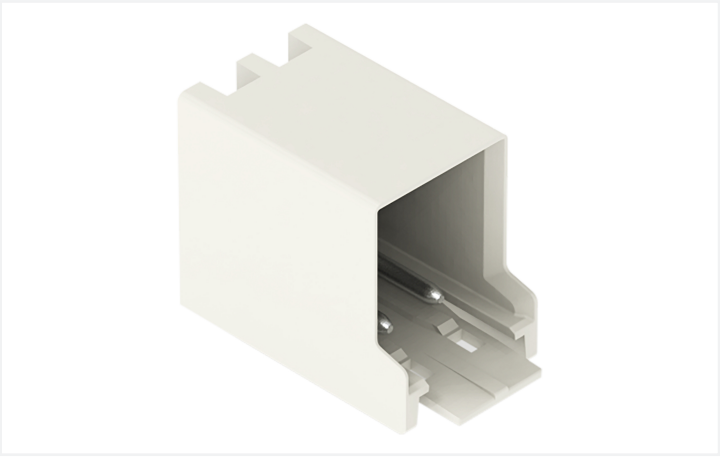
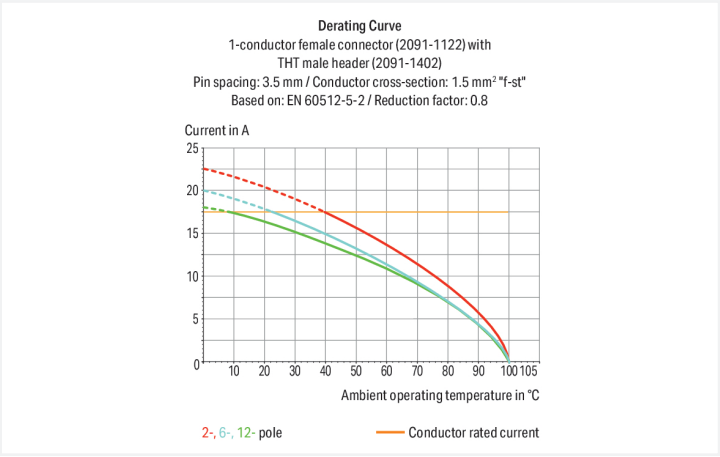
# Data Sheet | Item Number: 2091-1432

THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; light gray

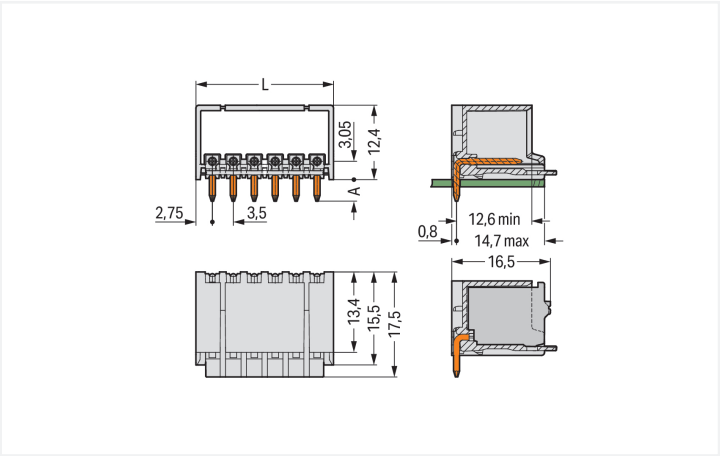
https://www.wago.com/2091-1432






Color: light gray

Similar to illustration




Dimensions in mm
L = (pole no. x pin spacing) + 2.0 mmA = 3.6 mm THT solder pinA = 2.4 mm THR solder pin

Male connector, 2091 Series, light gray

Enjoy easy electrical installations with this male connector (item number 2091-1432). Dimensions: (44 x 16 x 17.5) mm (width x height x depth).

Tin is used for coating the contact surfaces. THT is used to assemble 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: | Direct marking<br>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 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 160 V | 160 V | 320 V |
| Rated impulse withstand voltage | 2.5 kV | 2.5 kV | 2.5 kV |
| Rated current | 10 A | 10 A | 10 A |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 10 A | - | 10 A |

## Connection Data

| | |
|---|---|
| Total number of potentials | 12 |
| Number of connection types | 1 |
| Number of levels | 1 |

### Connection 1

| | |
|---|---|
| Pole number | 12 |

## Physical data

| | |
|---|---|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 44 mm / 1.732 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) | 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 |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact Plating | Tin |
| Fire load | 0.039 MJ |
| Weight | 4.1 g |


Continued on next page

## Environmental requirements

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

## Commercial data

| | |
|---|---|
| Product Group | 26 (picoMAX Connectors) |
| PU (SPU) | 100 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821161141 |
| 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 2091-1432


Continued on next page

## Documentation

### Additional Information

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

## CAD/CAE-Data

### CAD data

2D/3D Models
2091-1432

### CAE data

ZUKEN Portal 2091-1432

### PCB Design

Symbol and Footprint via
SamacSys 2091-1432

Symbol and Footprint via
Ultra Librarian
2091-1432

# 1 Compatible Products

## 1.1 System counterpart

### 1.1.1 Female connector/socket



Item No.: 2091-1132
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 1,50 mm²; light gray



Item No.: 2091-1112/002-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate sliding connector release; 1,50 mm²; light gray



Item No.: 2091-1112/002-1000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate sliding connector release; direct marking; 1,50 mm²; light gray



Item No.: 2091-1112
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate; 1,50 mm²; light gray



Item No.: 2091-1112/000-1000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate; direct marking; 1,50 mm²; light gray



Item No.: 2091-1112/000-5000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate; direct marking; 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


Continued on next page

## Installation Notes

### Coding



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