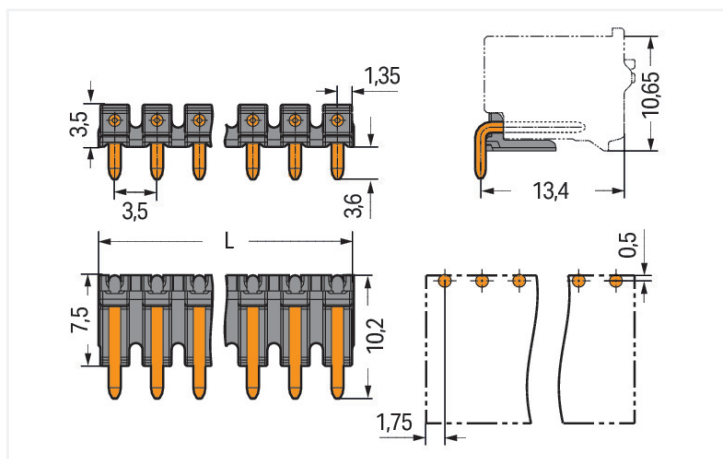
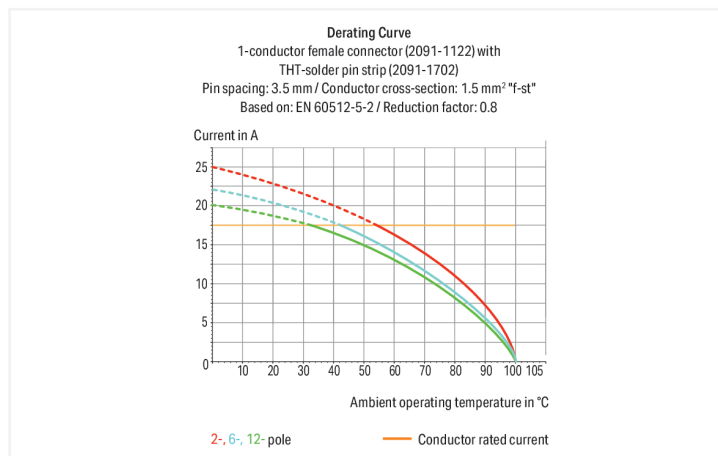


<https://www.wago.com/2091-1730>



Similar to illustration



$$L = (\text{pole no.} - 1) \times \text{pin spacing} + 2.7 \text{ mm}$$

Male connector, 2091 Series, black

Our male connector (item number 2091-1730) ensures effortless electrical installations. The item's dimensions are (36.7 x 7.1 x 10.2) mm (width x height x depth).

Tin is used for coating the contact surfaces. The pcb connector is designed for THT soldering.

## 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 un-mated.



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   |

Connection Data

|                            |   |              |    |
|----------------------------|---|--------------|----|
| Number of connection types | 1 | Connection 1 |    |
| Number of levels           | 1 | Pole number  | 10 |

Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 3.5 mm / 0.138 inches    |
| Width                                | 36.7 mm / 1.445 inches   |
| Height                               | 7.1 mm / 0.28 inches     |
| Height from the surface              | 3.5 mm / 0.138 inches    |
| Depth                                | 10.2 mm / 0.402 inches   |
| Solder pin length                    | 3.6 mm                   |
| Solder pin diameter                  | 1 mm                     |
| Drilled hole diameter with tolerance | 1.2 <sup>(+0.1)</sup> 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 °                 |

PCB contact

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

Material data

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | black                                                                    |
| 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 MJ                                                                     |
| Weight                             | 1.4 g                                                                    |



| Environmental requirements |                 |
|----------------------------|-----------------|
| Limit temperature range    | -60 ... +100 °C |

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 300 pcs       |
| Packaging type        | Bag           |
| Country of origin     | CN            |
| GTIN                  | 4055143935739 |
| Customs tariff number | 85366930000   |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| 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          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984  | 71-129873        |
| UL<br>Underwriters Laboratories Inc.  | UL 1059   | E45172           |
| UL<br>Underwriters Laboratories Inc.  | UL 1977   | E45171           |

Downloads

Environmental Product Compliance

| Compliance Search                          |  |
|--------------------------------------------|--|
| Environmental Product Compliance 2091-1730 |  |



Documentation

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

CAD/CAE-Data

| CAD data                  |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|
| 2D/3D Models<br>2091-1730 |  |