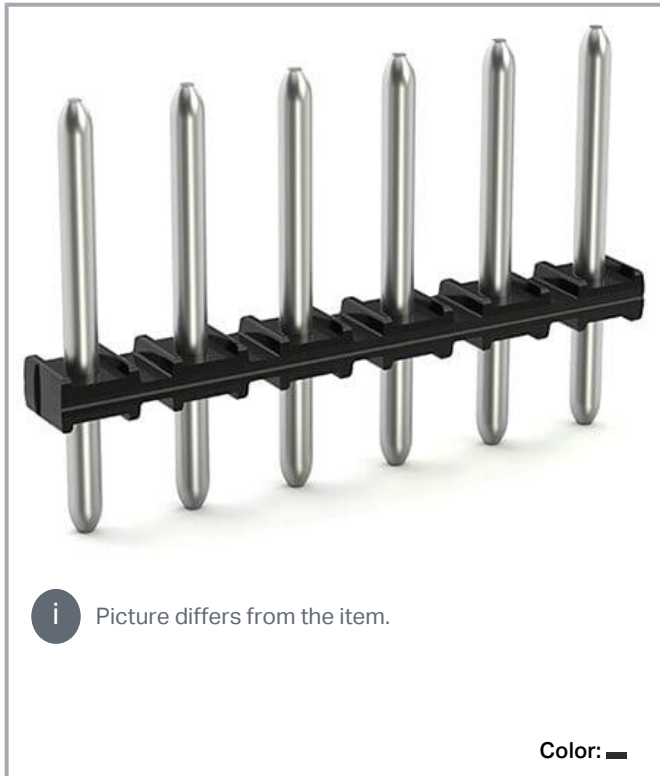


## Data sheet | Item number: 2091-1703

THT pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 3-pole;  
black

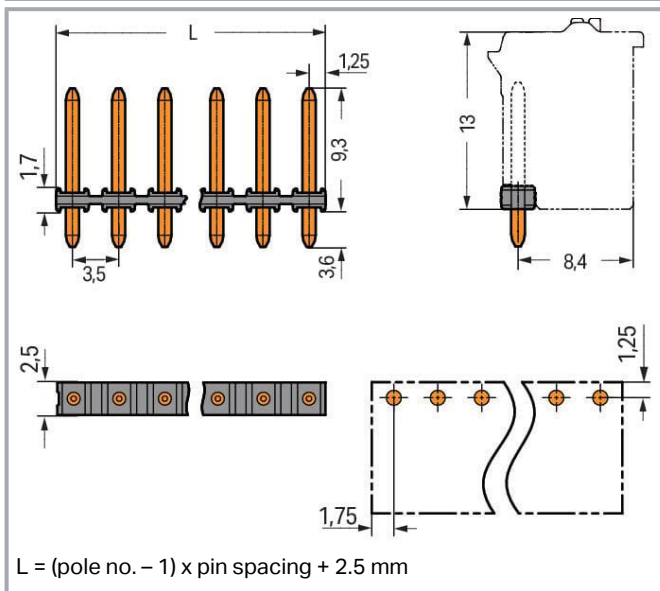
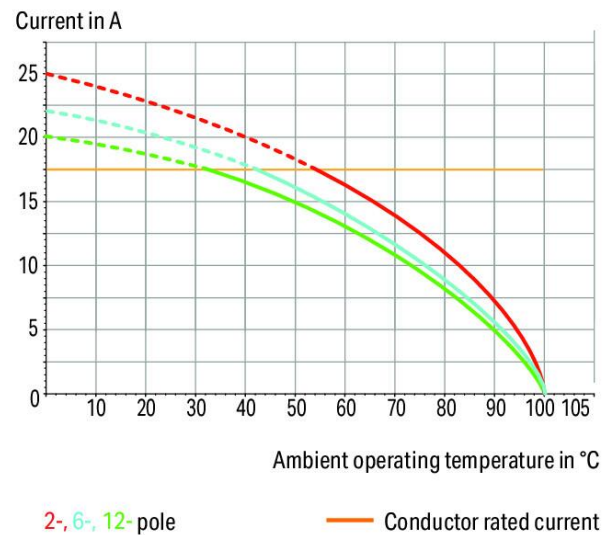
[www.wago.com/2091-1703](http://www.wago.com/2091-1703)



Picture differs from the item.

Color:

**Derating Curve**  
1-conductor female connector (2091-1122) with  
THT-solder pin strip (2091-1702)  
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!

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

- Solder pin strips may be mounted horizontally or vertically via straight or angled solder pins
- Assembly of female connectors without loss of poles, allowing different functions to be divided within one solder pin strip

## 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.

## Electrical data

### 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 |

## Connection data

|                            |   |
|----------------------------|---|
| Number of connection types | 1 |
| Number of levels           | 1 |

### Connection 1

|             |   |
|-------------|---|
| Pole number | 3 |
|-------------|---|

## Physical data

|             |                       |
|-------------|-----------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
|-------------|-----------------------|

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



|                                      |                          |
|--------------------------------------|--------------------------|
| Width                                | 12.0 mm / 0.472 inches   |
| Height                               | 12.9 mm / 0.508 inches   |
| Height from the surface              | 9.3 mm / 0.366 inches    |
| Depth                                | 2.5 mm / 0.098 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          | 90 °                |
| Locking of plug-in connection        | none                |

## PCB contact

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

## Material data

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | black                                                    |
| Material group              | I                                                        |
| Insulation material         | Polyphthalamide (PPA GF)                                 |
| Flammability class per UL94 | V0                                                       |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                   |
| Contact plating             | Tin                                                      |
| Weight                      | 0.3 g                                                    |

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

## Environmental requirements

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

## Commercial data

|                       |               |
|-----------------------|---------------|
| ETIM 8.0              | EC002637      |
| ETIM 7.0              | EC002637      |
| ECCN                  | NO DATA       |
| PU (SPU)              | 500 pcs       |
| Packaging type        | bag           |
| Country of origin     | CN            |
| GTIN                  | 4055143935012 |
| 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 1059                  | E45172           |
|  | <b>UL</b><br>Underwriters Laboratories Inc.  | UL 1977                  | E45171           |

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



## Counterpart

**Item no.2091-1123**1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole;  
1,50 mm²; light gray[www.wago.com/2091-1123](http://www.wago.com/2091-1123)

## Downloads

### Documentation

#### Additional Information

|                        |             |        |          |
|------------------------|-------------|--------|----------|
| Technical Section      | 2019 年4月3 日 | pdf    | Download |
| Technical explanations |             | 2.1 MB |          |

## CAD/CAE-Data

### CAD data

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2091-1703 | URL | Download |
|------------------------|-----|----------|

### CAE data

|                        |     |          |
|------------------------|-----|----------|
| ZUKEN Portal 2091-1703 | URL | Download |
|------------------------|-----|----------|

### Asset Administration Shell

|                                      |     |          |
|--------------------------------------|-----|----------|
| Asset Administration Shell 2091-1703 | URL | Download |
|--------------------------------------|-----|----------|

## Environmental Product Compliance

### Compliance Search

|                                                                                 |     |          |
|---------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 2091-1703                                      | URL | Download |
| THT pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 3-pole; black |     |          |

## Installation Notes

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.