

## Data sheet | Item number: 2091-1103

1-conductor female plug; Gripping plate; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole

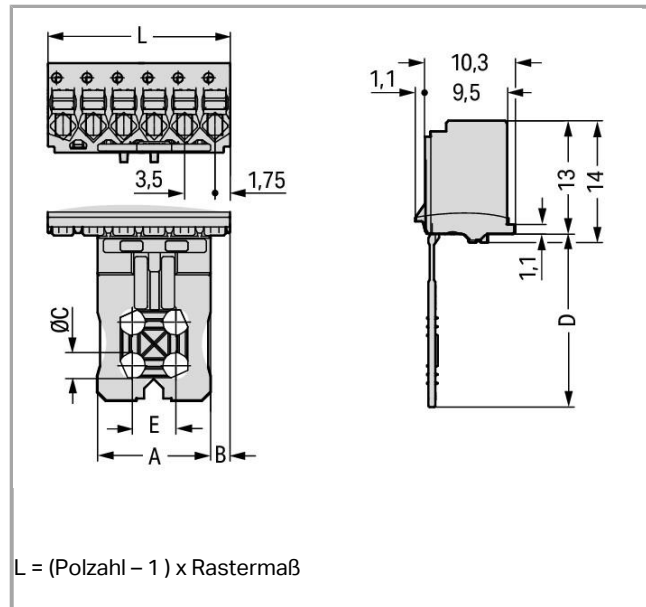
[www.wago.com/2091-1103](http://www.wago.com/2091-1103)



RoHS Compliant

BOMcheck.net

Color:



### Item description

- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require specialty tools
- Ability to wire while mated or unmated
- Test port parallel to conductor entry – touch contact



- Integrated locking latches prevent accidental disconnection

## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated 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 |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 10 A   |

#### 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 |

### Connection data

|                                                             |                                             |
|-------------------------------------------------------------|---------------------------------------------|
| Connection technology                                       | Push-in CAGE CLAMP®                         |
| Actuation type                                              | Push-button                                 |
| Solid conductor                                             | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG |
| Fine-stranded conductor                                     | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 0.75 mm <sup>2</sup>               |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 1.5 mm <sup>2</sup>                |
| Strip length                                                | 8 ... 9 mm / 0.31 ... 0.35 inch             |
| No. of poles                                                | 3                                           |
| Total number of connection points                           | 3                                           |
| Total number of potentials                                  | 3                                           |
| Number of connection types                                  | 1                                           |
| Number of levels                                            | 1                                           |
| Leiterquerschnitte eindrätig                                | 0.2 mm <sup>2</sup>                         |

### Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 3.5 mm / 0.138 inch  |
| Width       | 10.5 mm / 0.413 inch |
| Height      | 30 mm / 1.181 inch   |
| Depth       | 11.4 mm / 0.449 inch |

## Mechanical data

|        |                     |
|--------|---------------------|
| Design | With gripping plate |
|--------|---------------------|

## Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for conductors          |
| Mismating protection               | No                      |

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | light gray                             |
| Material group              | I                                      |
| Insulating material         | Polyphthalamide (PPA GF)               |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.037 MJ                               |
| Weight                      | 1.508 g                                |

## Environmental Requirements

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

## Commercial data

|                   |               |
|-------------------|---------------|
| Product Group     | 26 (picoMAX)  |
| Country of origin | DE            |
| GTIN              | 4050821160687 |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                              | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------|
|                                                                                    | CB<br>DEKRA Certification B.V.        | IEC 61984                | NL-49736         |
|  | CSA<br>DEKRA Certification B.V.       | C22.2                    | 2362521          |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984                 | 71-<br>102260    |

## UL-Approvals

| Logo                                                                             | Approval                             | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |
|  | UR<br>Underwriters Laboratories Inc. | UL 1977                  | 20170428-E45171  |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

## Compatible products

## Coding

|                                                                                    |                                                                                                  |                                                                    |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|  | Item no.: 2091-1610<br>Coding key carrier; suitable for 3.5 mm pin spacing                       | <a href="http://www.wago.com/2091-1610">www.wago.com/2091-1610</a> |
| tools                                                                              |                                                                                                  |                                                                    |
|  | Item no.: 210-719<br>Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a>     |
| check                                                                              |                                                                                                  |                                                                    |
|  | Item no.: 735-500<br>Test pin; 1 mm Ø; with solder connection for test wire                      | <a href="http://www.wago.com/735-500">www.wago.com/735-500</a>     |

## Downloads

## Documentation

## Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | 03-Apr-2019 | pdf<br>3.6 MB | Download |
|------------------------|-------------|---------------|----------|

## CAD/CAE - Smart Data

## CAD data

|                       |     |          |
|-----------------------|-----|----------|
| 3D Download 2091-1103 | URL | Download |
|-----------------------|-----|----------|



## Product family

picoMAX

[Show all products from the family](#)

Subject to changes.

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Do you have any questions about our products?

We are always happy to take your call at {0}.