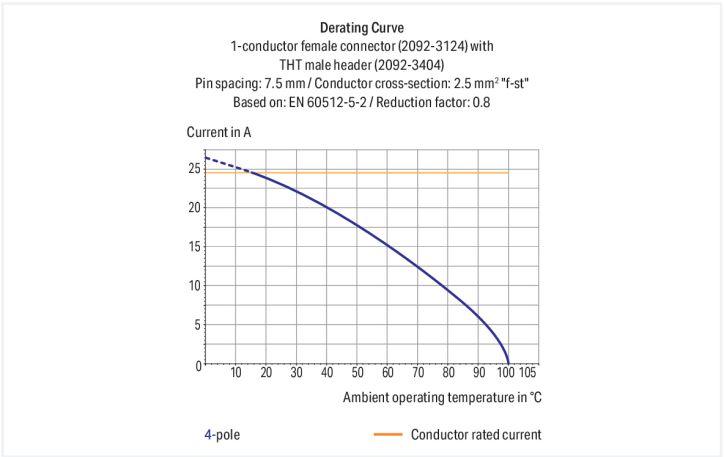


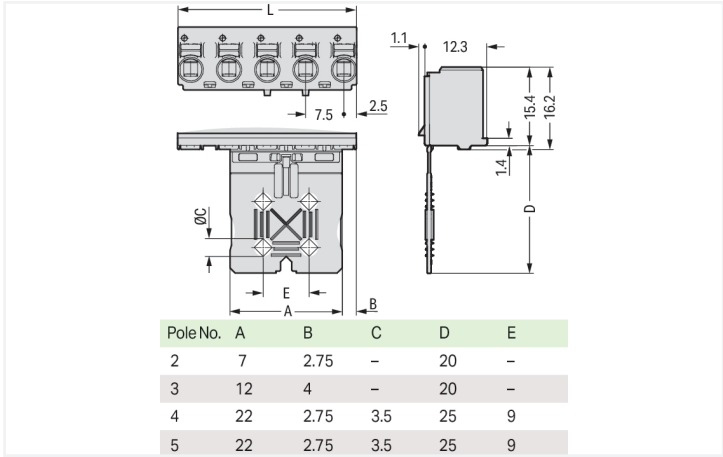
Data Sheet | Item Number: 2092-3103

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 3-pole; Gripping plate; 2,50 mm²; light gray

<https://www.wago.com/2092-3103>



Color: ■ light gray



Dimensions in mm  
L = (pole no. - 1) x pin spacing + 5 mm

Female connector, 2092 Series, Push-in CAGE CLAMP®

Our female connector (item number 2092-3103) ensures effortless electrical installations. Strip lengths must be between 9 and 10 mm when connecting conductors to this female connector. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product outperforms the competition. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. The dimensions are (20 x 34 x 13.4) mm (width x height x depth). Depending on the type of conductor, this female connector is suitable for conductor cross sections ranging from 0.2 mm² to 2.5 mm².

The contact surface is coated with tin.



| Notes                |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information   | The <b>picoMAX® Pluggable Connection System</b> 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. |
| Safety information 2 | The use of ferrules is recommended for applications with higher requirements.<br><br>To prevent excessive force on the clamping point, effective cable strain relief must be used.                                                                                                                                                                                                                                                     |
| Variants:            | Direct marking<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                                                                                                         |

| Electrical data                 |  |                |       |        |
|---------------------------------|--|----------------|-------|--------|
| Ratings per                     |  | IEC/EN 60664-1 |       |        |
| Overvoltage category            |  | III            | III   | II     |
| Pollution degree                |  | 3              | 2     | 2      |
| Nominal voltage                 |  | 400 V          | 630 V | 1000 V |
| Rated impulse withstand voltage |  | 6 kV           | 6 kV  | 6 kV   |
| Rated current                   |  | 16 A           | 16 A  | 16 A   |

| Approvals per |  | UL 1059 |   |       |
|---------------|--|---------|---|-------|
| Use group     |  | B       | C | D     |
| Rated voltage |  | 300 V   | - | 300 V |
| Rated current |  | 15 A    | - | 10 A  |

| Connection Data            |   |
|----------------------------|---|
| Clamping units             | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels           | 1 |

| Connection 1                                      |                                       |
|---------------------------------------------------|---------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                   |
| Actuation type                                    | Push-button                           |
| Actuation direction 1                             | Operation parallel to conductor entry |
| Solid conductor                                   | 0.2 ... 2.5 mm² / 24 ... 12 AWG       |
| Fine-stranded conductor                           | 0.2 ... 2.5 mm² / 24 ... 12 AWG       |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                      |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                      |
| Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches    |
| Pole number                                       | 3                                     |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 7.5 mm / 0.295 inches  |
| Width         | 20 mm / 0.787 inches   |
| Height        | 34 mm / 1.339 inches   |
| Depth         | 13.4 mm / 0.528 inches |

| Mechanical data          |                     |
|--------------------------|---------------------|
| Variable coding          | Yes                 |
| Design                   | with gripping plate |
| Anti-rotation protection | Yes                 |



| Plug-in connection                   |                         |
|--------------------------------------|-------------------------|
| Contact type (pluggable connector)   | Female connector/socket |
| Connector (connection type)          | for conductor           |
| Mismating protection                 | No                      |
| Plugging without loss of pin spacing | Yes                     |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | light gray                                                               |
| Material group                     | I                                                                        |
| Insulation material (main housing) | 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                                                                      |
| Fire load                          | 0.015 MJ                                                                 |
| Weight                             | 3.8 g                                                                    |

| 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                  | 4050821164364           |
| Customs tariff number | 85366990990             |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-14-11-06          |
| eCl@ss 9.0             | 27-14-11-06          |
| ETIM 9.0               | EC001284             |
| ETIM 10.0              | EC001284             |
| 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-89885         |
| CSA<br>CSA Group                        | C22.2         | 2362521          |
| CSA<br>DEKRA Certification B.V.         | C22.2 No. 158 | 2362521          |
| cURus<br>Underwriters Laboratories Inc. | UL 1059       | E45172           |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 61984      | 71-129874        |
| UL<br>Underwriters Laboratories Inc.    | UL 1977       | E45171           |

Downloads

Environmental Product Compliance

Compliance Search

|                                            |  |
|--------------------------------------------|--|
| Environmental Product Compliance 2092-3103 |  |
|--------------------------------------------|--|

Documentation

Additional Information

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

CAD/CAE-Data

CAD data

|                           |  |
|---------------------------|--|
| 2D/3D Models<br>2092-3103 |  |
|---------------------------|--|

CAE data

|                           |  |
|---------------------------|--|
| ZUKEN Portal<br>2092-3103 |  |
|---------------------------|--|



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



**Item No.: 2092-3503/002-000**  
1-conductor male connector; Push-in CA-GE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 3-pole; Gripping plate; 2,50 mm²; light gray



**Item No.: 2092-3423**  
THT male header; 1.4 mm Ø solder pin; angled; Pin spacing 7.5 mm; 3-pole; light gray



**Item No.: 2092-3403**  
THT male header; 1.4 mm Ø solder pin; straight; Pin spacing 7.5 mm; 3-pole; light gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



**Item No.: 216-301**  
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-131**  
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-302**  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-132**  
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



**Item No.: 216-101**  
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-202**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**  
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-122**  
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-203**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



**Item No.: 216-143**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-204**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-144**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored



**Item No.: 216-104**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-106**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.2.2 Test and measurement

1.2.2.1 Testing accessories



**Item No.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

1.2.3 Tool

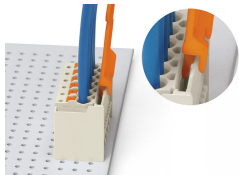
1.2.3.1 Operating tool



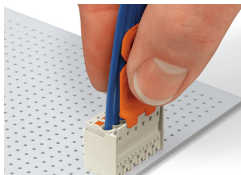
Item No.: 210-719  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

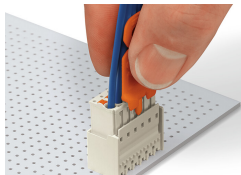
Locking system



Disconnecting a female connector via unlocking tool. Plug unlocking tool into the male header's locking latch.

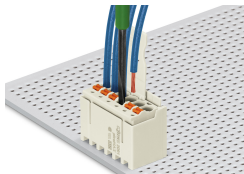


Insert unlocking tool until it hits the back-stop. Wedge opens locking latches.



Pull on both unlocking tool and conductors to remove female connector from male header.

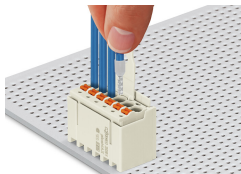
Conductor termination



Inserting fine-stranded conductor into mated female connector via push-button.



Inserting a fine-stranded conductor into an unmated female connector via push-button.



Inserting solid and ferruled conductors via push-in termination.

Marking



Pole marking via factory direct marking.

Coding



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

Testing



Testing via 1 mm Ø test pin – touch contact.