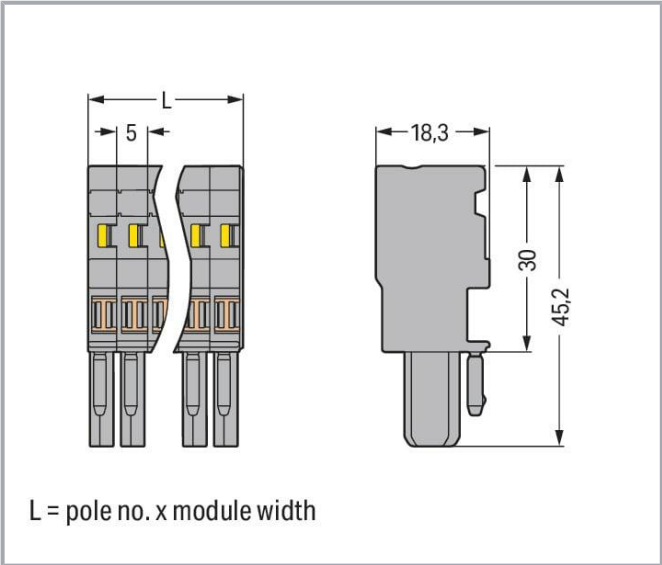
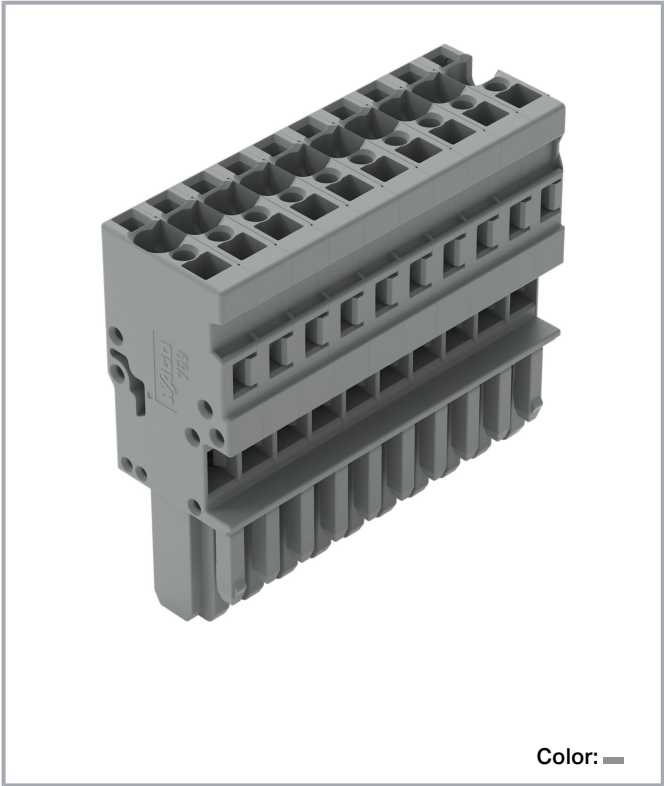


**Data sheet | Item number: 769-110**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm;  
10-pole; coding finger; 4,00 mm²; gray

[www.wago.com/769-110](http://www.wago.com/769-110)



**Data**  
**Notes**

Safety information

According to EN 61984, pluggable connectors without current interrupting capacity must not be mated or unmated when live or under load.

**Electrical data**

**Ratings per IEC/EN**

| Ratings per                   | IEC/EN 61984 |
|-------------------------------|--------------|
| Nominal voltage (III/3)       | 500 V        |
| Rated impulse voltage (III/3) | 6 kV         |
| Rated current                 | 32 A         |

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

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Legend (ratings)

(III / 3)  $\hat{=}$  Overvoltage category III / Pollution degree 3

## Connection data

|                            |    |
|----------------------------|----|
| Connection points          | 10 |
| Total number of potentials | 10 |

## Connection 1

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Connection technology           | CAGE CLAMP®                       |
| Actuation type                  | Operating tool                    |
| Connectable conductor materials | Copper                            |
| Nominal cross-section           | 4 mm² / 12 AWG                    |
| Solid conductor                 | 0.08 ... 4 mm² / 28 ... 12 AWG    |
| Fine-stranded conductor         | 0.08 ... 4 mm² / 28 ... 12 AWG    |
| Strip length                    | 8 ... 9 mm / 0.31 ... 0.35 inches |
| Pole number                     | 10                                |
| Wiring direction                | Front-entry wiring                |

## Physical data

|              |                       |
|--------------|-----------------------|
| Width        | 50 mm / 1.969 inches  |
| Height       | 45.2 mm / 1.78 inches |
| Depth        | 18.3 mm / 0.72 inches |
| Module width | 5 mm / 0.197 inches   |

## Mechanical Data

|                                                        |              |
|--------------------------------------------------------|--------------|
| Variable coding                                        | Yes          |
| Direct ground contact to DIN-rail/drilled hole/housing | No           |
| Marking level                                          | Side marking |
| 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                     |

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

## Material data

Note (material data)

Information on material specifications can be found here

|                             |                  |
|-----------------------------|------------------|
| Color                       | gray             |
| Material group              | I                |
| Insulation material         | Polyamide (PA66) |
| Flammability class per UL94 | V0               |
| Fire load                   | 0.629 MJ         |
| Halogen-free                | Yes              |
| Weight                      | 31.4 g           |

## Environmental requirements

|                                  |                 |
|----------------------------------|-----------------|
| Processing temperature           | -35 ... +85 °C  |
| Continuous operating temperature | -60 ... +105 °C |

## Commercial data

|                       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-14-11-06   |
| eCl@ss 9.0            | 27-14-11-06   |
| ETIM 8.0              | EC001284      |
| ETIM 7.0              | EC001284      |
| PU (SPU)              | 25 pcs        |
| Packaging type        | box           |
| Country of origin     | DE            |
| GTIN                  | 4044918471787 |
| Customs tariff number | 85366990990   |

## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

## Approvals / Certificates

### General approvals

| Logo | Approval                               | Additional Approval Text | Certificate name |
|------|----------------------------------------|--------------------------|------------------|
|      | <b>CCA</b><br>DEKRA Certification B.V. | EN 60947                 | NTR NL-7626      |

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

CCA

|                                                                                    |                                       |           |                 |
|------------------------------------------------------------------------------------|---------------------------------------|-----------|-----------------|
|                                                                                    | CCA<br>DEKRA Certification B.V.       | IEC 61984 | NL-47799<br>/A1 |
|    | CCA<br>DEKRA Certification B.V.       | EN 61984  | 2190419.02      |
|    | CSA<br>CSA Group                      | C22.2     | 1101144         |
|    | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947  | 2190419.01      |
|    | UL<br>Underwriters Laboratories Inc.  | UL 1977   | E 45171         |
|  | UR<br>Underwriters Laboratories Inc.  | UL 1059   | E45172          |

## Declarations of conformity and manufacturer's declarations

| Logo                                                                               | Approval                                           | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------|------------------|
|  | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |
|  | UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |

## Approvals for marine applications

| Logo | Approval                           | Additional Approval Text | Certificate name  |
|------|------------------------------------|--------------------------|-------------------|
|      | ABS<br>American Bureau of Shipping | EN 60947                 | 20-<br>HG1941090- |

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## Counterpart

**Item no.769-610**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; 4,00 mm²; gray

[www.wago.com/769-610](http://www.wago.com/769-610)**Item no.769-610/002-000**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; clamping collar; 4,00 mm²; gray

[www.wago.com/769-610/002-000](http://www.wago.com/769-610/002-000)**Item no.769-610/001-000**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; 4,00 mm²; gray

[www.wago.com/769-610/001-000](http://www.wago.com/769-610/001-000)**Item no.769-610/005-000**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; Snap-in flange; 4,00 mm²; gray

[www.wago.com/769-610/005-000](http://www.wago.com/769-610/005-000)**Item no.769-610/004-000**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; Feedthrough flange; 4,00 mm²; gray

[www.wago.com/769-610/004-000](http://www.wago.com/769-610/004-000)**Item no.769-640**

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-640](http://www.wago.com/769-640)**Item no.769-610/006-000**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; Snap-in flange; 4,00 mm²; gray

[www.wago.com/769-610/006-000](http://www.wago.com/769-610/006-000)**Item no.769-640/007-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-640/007-000](http://www.wago.com/769-640/007-000)**Item no.769-640/003-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-640/003-000](http://www.wago.com/769-640/003-000)

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**Item no.769-640/004-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; Feedthrough flange; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-640/004-000](http://www.wago.com/769-640/004-000)**Item no.769-670/003-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; clamping collar; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-670/003-000](http://www.wago.com/769-670/003-000)**Item no.769-670/004-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; Feedthrough flange; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-670/004-000](http://www.wago.com/769-670/004-000)

## Optional accessories

### Tool

Operating tool

**Item no.: 210-490**

Operating tool

[www.wago.com/210-490](http://www.wago.com/210-490)**Item no.: 769-434**

Operating tool; made of insulating material; 1-way; loose; white

[www.wago.com/769-434](http://www.wago.com/769-434)

### Cover

Cover

**Item no.: 769-436**

Jumper cover; for 1-conductor female plugs; for 5 poles; gray

[www.wago.com/769-436](http://www.wago.com/769-436)

### Marking accessories

Marking strip

**Item no.: 210-831**

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

[www.wago.com/210-831](http://www.wago.com/210-831)**Item no.: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

[www.wago.com/210-834](http://www.wago.com/210-834)**Item no.: 210-832**

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

[www.wago.com/210-832](http://www.wago.com/210-832)

Label

**Item no.: 210-805**

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white

[www.wago.com/210-805](http://www.wago.com/210-805)**Item no.: 210-805/000-002**

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow

[www.wago.com/210-805/000-002](http://www.wago.com/210-805/000-002)

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## Marker

**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)**Item no.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/248-501](http://www.wago.com/248-501)

## Insulation stop

## Insulation stop

**Item no.: 769-470**Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white[www.wago.com/769-470](http://www.wago.com/769-470)**Item no.: 769-471**Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray[www.wago.com/769-471](http://www.wago.com/769-471)**Item no.: 769-472**Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray[www.wago.com/769-472](http://www.wago.com/769-472)

## Ferrule

## Ferrule

**Item no.: 216-101**Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored[www.wago.com/216-101](http://www.wago.com/216-101)**Item no.: 216-104**Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored[www.wago.com/216-104](http://www.wago.com/216-104)**Item no.: 216-102**Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored[www.wago.com/216-102](http://www.wago.com/216-102)**Item no.: 216-103**Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated[www.wago.com/216-103](http://www.wago.com/216-103)**Item no.: 216-203**Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red[www.wago.com/216-203](http://www.wago.com/216-203)**Item no.: 216-206**Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; blue[www.wago.com/216-206](http://www.wago.com/216-206)**Item no.: 216-202**Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray[www.wago.com/216-202](http://www.wago.com/216-202)**Item no.: 216-204**Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black[www.wago.com/216-204](http://www.wago.com/216-204)**Item no.: 216-201**Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white[www.wago.com/216-201](http://www.wago.com/216-201)**Item no.: 216-301**[www.wago.com/216-301](http://www.wago.com/216-301)

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

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Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow**Item no.: 216-302**Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise[www.wago.com/216-302](http://www.wago.com/216-302)**Testing and measuring**

Testing accessories

**Item no.: 210-136**

Test plug; 2 mm Ø; with 500 mm cable; red

[www.wago.com/210-136](http://www.wago.com/210-136)**Locking levers**

Locking system

**Item no.: 769-430**

Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; gray

[www.wago.com/769-430](http://www.wago.com/769-430)**Item no.: 769-431**

Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; orange

[www.wago.com/769-431](http://www.wago.com/769-431)**Jumpers**

Jumper

**Item no.: 769-402**

Jumper; insulated; gray

[www.wago.com/769-402](http://www.wago.com/769-402)**Protective warning marker**

Cover

**Item no.: 280-415**

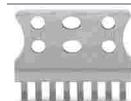
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

[www.wago.com/280-415](http://www.wago.com/280-415)**Strain relief**

Strain relief

**Item no.: 769-1610**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-1610](http://www.wago.com/769-1610)**Item no.: 769-414**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 10- to 15-pole; gray

[www.wago.com/769-414](http://www.wago.com/769-414)**Downloads****Documentation****Bid Text**

|             |             |        |          |
|-------------|-------------|--------|----------|
| 769-110     | 2019 Feb 19 | xml    | Download |
| X81 - Datei |             | 3.3 kB |          |

769-110

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|             |            |         |          |
|-------------|------------|---------|----------|
| 769-110     | 2017 Oct 4 | doc     | Download |
| doc - Datei |            | 25.6 kB |          |

**Additional Information**

pdf  
2.3 MB

Download

**CAD/CAE-Data****CAE data**

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 769-110 | URL | Download |
| WSCAD Universe 769-110    | URL | Download |
| ZUKEN Portal 769-110      | URL | Download |

**CAD data**

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 769-110 | URL | Download |
|----------------------|-----|----------|

**Asset Administration Shell**

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 769-110 | URL | Download |
|------------------------------------|-----|----------|

**Environmental Product Compliance****Compliance Search**

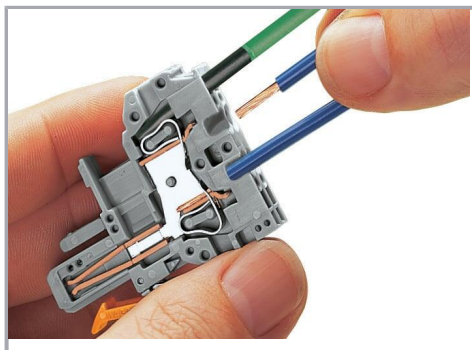
|                                                                                                            |     |          |
|------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 769-110                                                                   | URL | Download |
| 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; coding finger; 4,00 mm²; gray |     |          |

**Installation Notes****Conductor termination**

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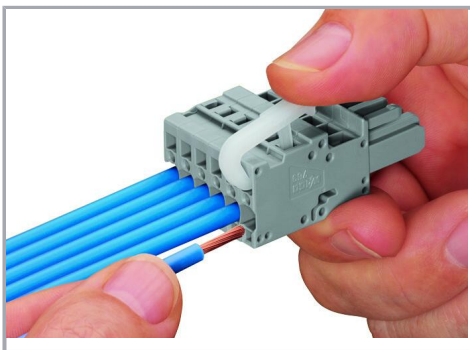
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#### CAGE CLAMP® connection

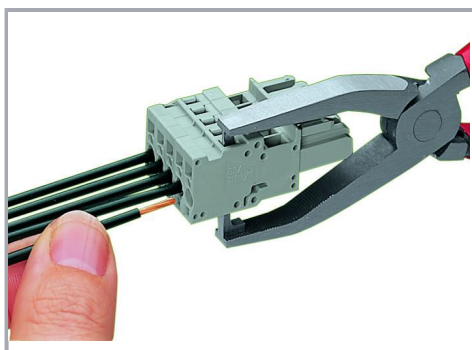
Female plug: Inserting/removing a conductor via operating tool.

Operation 90° to conductor is also possible. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.



#### Operating lever

Inserting a conductor – side-entry wiring (example shows a female plug).



#### Operating tool

Inserting a conductor – side-entry wiring (example shows a female plug).

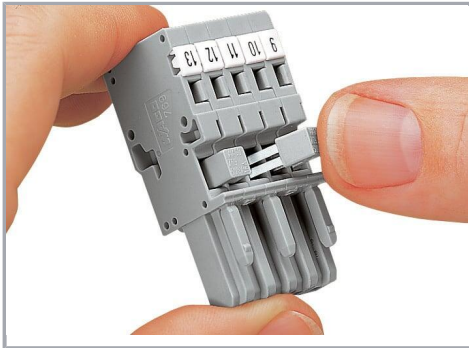
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.

#### Commoning

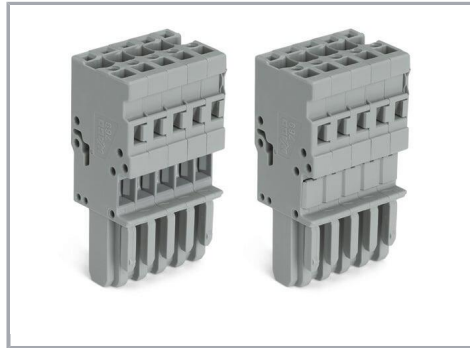
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Commoning 1-conductor female plugs via miniature adjacent jumpers.



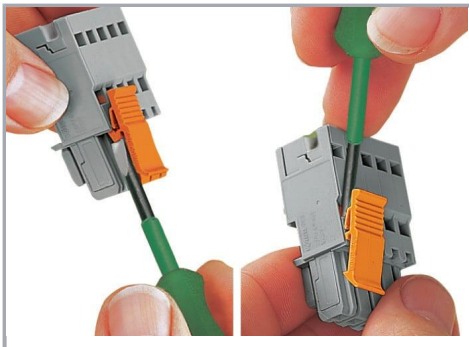
Jumper cover for 1-conductor female plugs

### Coding



Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

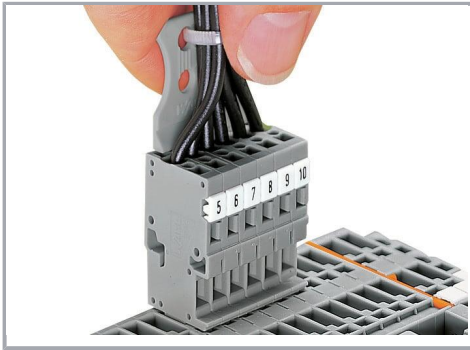
### Locking system



Locking/releasing a lever.

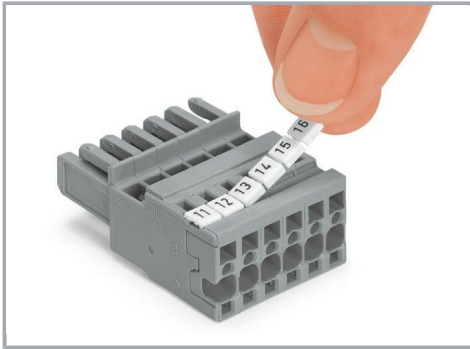
### Strain relief

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



Removing a female plug via conductor bundle provided with strain relief plate.

### Marking



Labeling a female plug with CAGE CLAMP® connection via Mini-WSB Quick Markers.

### Product family

#### X-COM

[Show all products from the family](#)

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