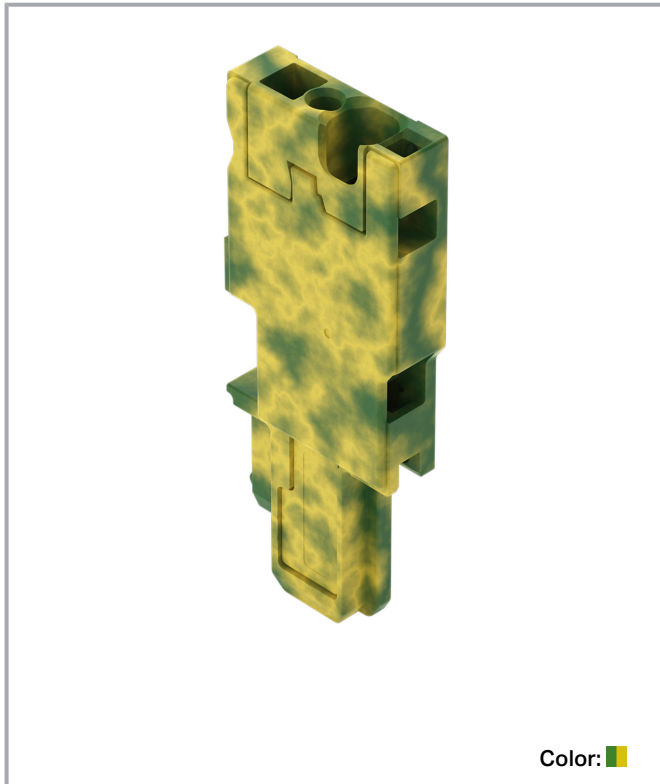


## Data sheet | Item number: 769-501/000-016

Start module for 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; with integrated end plate; 4,00 mm²; green-yellow

[www.wago.com/769-501/000-016](http://www.wago.com/769-501/000-016)



### Item description

#### Customizing Modular Female Plugs

WAGO's modular X-COM®-SYSTEM female plugs can be customized for applications that require a varying number of poles (e.g., when designing prototypes).

#### Modules and Pole Numbers

A customized X-COM®-SYSTEM female plug consists of:

- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

### Intended Use

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

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

#### Assembly

The appropriate mounting tool shall be used to ensure that the individual modules are properly attached to each other without damaging the locking latches.

#### 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 |
| Legend (ratings) |              |

#### Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 1 |
| Total number of potentials | 1 |

#### 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                     | 1                                 |
| Wiring direction                | Front-entry wiring                |

#### Physical data

|       |                     |
|-------|---------------------|
| Width | 5 mm / 0.197 inches |
|-------|---------------------|

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



|              |                       |
|--------------|-----------------------|
| 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           |
| Mismatching protection               | No                      |
| Plugging without loss of pin spacing | Yes                     |

### Material data

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | green-yellow                                             |
| Insulation material         | Polyamide (PA66)                                         |
| Flammability class per UL94 | V0                                                       |
| Fire load                   | 0.06 MJ                                                  |
| Halogen-free                | Yes                                                      |
| Weight                      | 3.4 g                                                    |

### Environmental requirements

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

### Commercial data

|               |                   |
|---------------|-------------------|
| Product Group | 18 (X-COM-System) |
| eCl@ss 10.0   | 27-14-11-06       |
| eCl@ss 9.0    | 27-14-11-06       |
| ETIM 8.0      | EC001284          |
| ETIM 7.0      | EC001284          |

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|                       |               |
|-----------------------|---------------|
| ECCN                  | NO DATA       |
| PU (SPU)              | 250 pcs       |
| Packaging type        | bag           |
| Country of origin     | DE            |
| GTIN                  | 4017332581783 |
| Customs tariff number | 85366990990   |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo                                                                               | Approval                              | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------|
|    | CCA<br>DEKRA Certification B.V.       | EN 60947                 | NTR NL-7626      |
|   | CCA<br>DEKRA Certification B.V.       | EN 61984                 | 2190419.02       |
|  | CCA<br>DEKRA Certification B.V.       | EN 61984                 | NL-47799 /A1     |
|  | 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           |

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

## 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 | -                        | -                |

## Optional accessories

## Strain relief

|                                                                                    |                                                                                                                              |                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Strain relief                                                                      |                                                                                                                              |                                                                  |
|    | <b>Item no.: 769-1604</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 4-pole; gray  | <a href="http://www.wago.com/769-1604">www.wago.com/769-1604</a> |
|   | <b>Item no.: 769-1602</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 2-pole; gray  | <a href="http://www.wago.com/769-1602">www.wago.com/769-1602</a> |
|  | <b>Item no.: 769-1607</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 7-pole; gray  | <a href="http://www.wago.com/769-1607">www.wago.com/769-1607</a> |
|  | <b>Item no.: 769-1609</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 9-pole; gray  | <a href="http://www.wago.com/769-1609">www.wago.com/769-1609</a> |
|  | <b>Item no.: 769-1603</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 3-pole; gray  | <a href="http://www.wago.com/769-1603">www.wago.com/769-1603</a> |
|  | <b>Item no.: 769-1610</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 10-pole; gray | <a href="http://www.wago.com/769-1610">www.wago.com/769-1610</a> |
|  | <b>Item no.: 769-1605</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 5-pole; gray  | <a href="http://www.wago.com/769-1605">www.wago.com/769-1605</a> |
|  | <b>Item no.: 769-1608</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 8-pole; gray  | <a href="http://www.wago.com/769-1608">www.wago.com/769-1608</a> |
|  | <b>Item no.: 769-1606</b><br>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 6-pole; gray  | <a href="http://www.wago.com/769-1606">www.wago.com/769-1606</a> |

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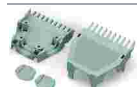
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**Item no.: 769-1611**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 11-pole; gray

[www.wago.com/769-1611](http://www.wago.com/769-1611)**Item no.: 769-1613**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 13-pole; gray

[www.wago.com/769-1613](http://www.wago.com/769-1613)**Item no.: 769-1612**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 12-pole; gray

[www.wago.com/769-1612](http://www.wago.com/769-1612)**Item no.: 769-1615**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 15-pole; gray

[www.wago.com/769-1615](http://www.wago.com/769-1615)**Item no.: 769-1614**

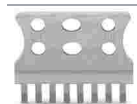
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 14-pole; gray

[www.wago.com/769-1614](http://www.wago.com/769-1614)**Item no.: 769-411**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 2- to 3-pole; gray

[www.wago.com/769-411](http://www.wago.com/769-411)**Item no.: 769-412**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 4- to 5-pole; gray

[www.wago.com/769-412](http://www.wago.com/769-412)**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)**Item no.: 769-410**

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

[www.wago.com/769-410](http://www.wago.com/769-410)**Item no.: 769-413**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 6- to 9-pole; gray

[www.wago.com/769-413](http://www.wago.com/769-413)**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)**Locking levers**

## Locking system

**Item no.: 769-428**

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

[www.wago.com/769-428](http://www.wago.com/769-428)**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.: 769-429**

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

[www.wago.com/769-429](http://www.wago.com/769-429)

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**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)**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)**Jumpers**

Jumper

**Item no.: 769-402**

Jumper; insulated; gray

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

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**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)**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)**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**Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow[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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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)**Downloads****Documentation****Bid Text**

|                                |             |                |          |
|--------------------------------|-------------|----------------|----------|
| 769-501/000-016<br>X81 - Datei | 2019 Feb 19 | xml<br>3.2 kB  | Download |
| 769-501/000-016<br>doc - Datei | 2017 Oct 4  | doc<br>26.6 kB | Download |

**Additional Information**

pdf  
2.3 MB

Download

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

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 769-501/000-016 | URL | Download |
|------------------------------|-----|----------|

**CAE data**

|                                   |     |          |
|-----------------------------------|-----|----------|
| EPLAN Data Portal 769-501/000-016 | URL | Download |
| WSCAD Universe 769-501/000-016    | URL | Download |
| ZUKEN Portal 769-501/000-016      | URL | Download |
| WSCAD Universe 769-501/000-016    | URL | Download |
| EPLAN Data Portal 769-501/000-016 | URL | Download |

**Asset Administration Shell**

|                                            |     |          |
|--------------------------------------------|-----|----------|
| Asset Administration Shell 769-501/000-016 | URL | Download |
|--------------------------------------------|-----|----------|

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

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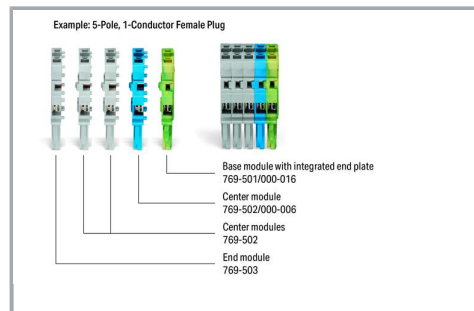
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Environmental Product Compliance 769-501/000-016

Start module for 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; with integrated end plate; 4,00 mm²; green-yellow

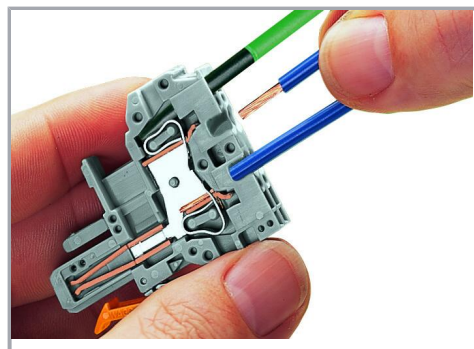
## Installation Notes

### Installation



Female plugs for self-assembly

### Conductor termination



#### 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.

### Commoning

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

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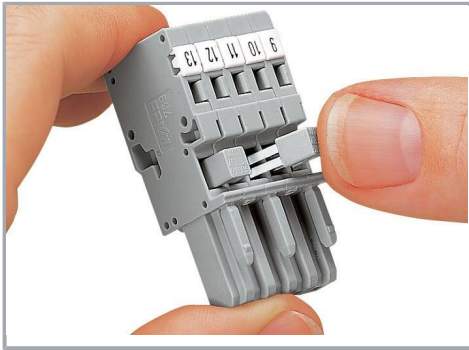
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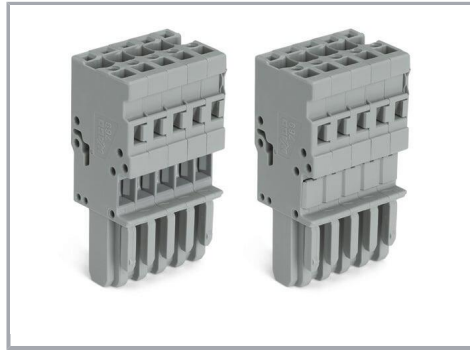
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Commoning 1-conductor female plugs via miniature adjacent jumpers.



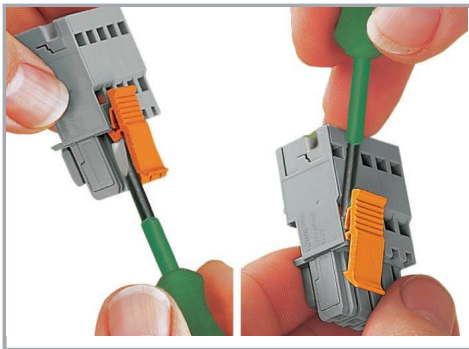
Jumper cover for 1-conductor female plugs

### 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.

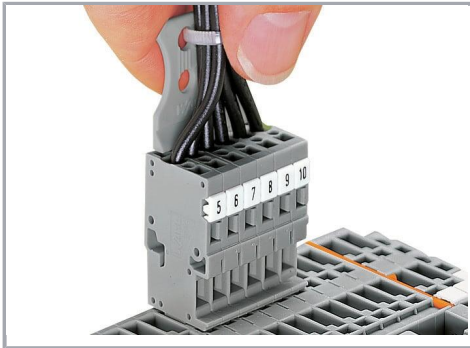
### Locking system



Locking/releasing a lever.

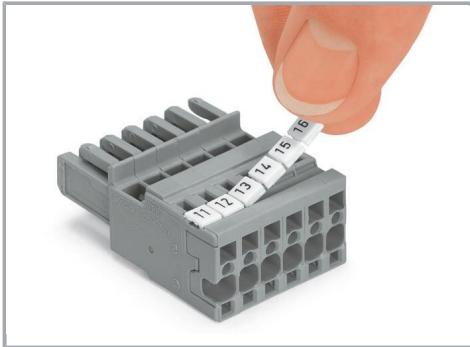
### Strain relief

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!