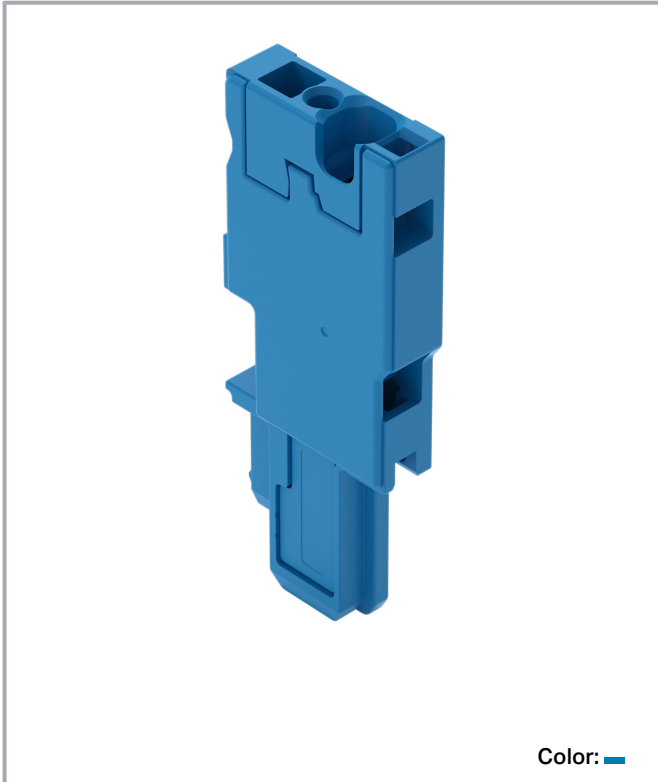


## Data sheet | Item number: 769-501/000-006

Start module for 1-conductor female connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 1-pole; coding finger; with integrated end plate; 4,00 mm<sup>2</sup>; blue



[www.wago.com/769-501/000-006](http://www.wago.com/769-501/000-006)



### 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   |
|-------------------------------|--|
| Nominal voltage (III/3)       | 500 V  |
| Rated impulse voltage (III/3) | 6 kV   |
| Rated current                 | 32 A   |
| Legend (ratings)              | (III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3 |

#### 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 mm <sup>2</sup> / 12 AWG                 |
| Solid conductor                 | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor         | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Strip length                    | 8 ... 9 mm / 0.31 ... 0.35 inches          |
| Pole number                     | 1  |
| Wiring direction                | Front-entry wiring                         |

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



## Physical data

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

## Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | <a href="#">Information on material specifications can be found here</a> |
| Color                       | blue   |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Fire load                   | 0.083 MJ   |
| Halogen-free                | Yes  |
| Weight                      | 3.4 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 |

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

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|                       |               |
|-----------------------|---------------|
| ETIM 8.0              | EC001284      |
| ETIM 7.0              | EC001284      |
| ECCN                  | NO DATA       |
| PU (SPU)              | 250 pcs       |
| Packaging type        | bag           |
| Country of origin     | DE            |
| GTIN                  | 4045454217334 |
| 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

## 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)

## 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.: 769-428

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)

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)

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

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## Tool

### Operating tool

|  |  |  |
|--|--|--|
|  | <b>Item no.: 210-490</b><br>Operating tool   | <a href="http://www.wago.com/210-490">www.wago.com/210-490</a> |
|  | <b>Item no.: 769-434</b><br>Operating tool; made of insulating material; 1-way; loose; white | <a href="http://www.wago.com/769-434">www.wago.com/769-434</a> |

## Marking accessories



### Marking strip

|  |   |  |
|--|---|--|
|  | <b>Item no.: 210-831</b><br>Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white | <a href="http://www.wago.com/210-831">www.wago.com/210-831</a> |
|  | <b>Item no.: 210-832</b><br>Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white   | <a href="http://www.wago.com/210-832">www.wago.com/210-832</a> |

### Label


|   |  |  |
|---|--|--|
|   | <b>Item no.: 210-805</b><br>Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white          | <a href="http://www.wago.com/210-805">www.wago.com/210-805</a>                 |
|  | <b>Item no.: 210-805/000-002</b><br>Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow | <a href="http://www.wago.com/210-805/000-002">www.wago.com/210-805/000-002</a> |

### Marker

|  |  |  |
|--|--|--|
|  | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|  | <b>Item no.: 248-501</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                                  | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |




## Cover

### Cover









|  |   |  |
|--|---|--|
|  | <b>Item no.: 769-436</b><br>Jumper cover; for 1-conductor female plugs; for 5 poles; gray | <a href="http://www.wago.com/769-436">www.wago.com/769-436</a> |
|--|---|--|

## Ferrule

### Ferrule

|   |  |  |
|---|--|--|
|  | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-101">www.wago.com/216-101</a> |
|  | <b>Item no.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-104">www.wago.com/216-104</a> |
|  | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored | <a href="http://www.wago.com/216-102">www.wago.com/216-102</a> |

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

|   |   |  |
|---|---|--|
|  | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                   | <a href="http://www.wago.com/216-103">www.wago.com/216-103</a> |
|  | <b>Item no.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                | <a href="http://www.wago.com/216-203">www.wago.com/216-203</a> |
|  | <b>Item no.: 216-206</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; blue             | <a href="http://www.wago.com/216-206">www.wago.com/216-206</a> |
|  | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray            | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|  | <b>Item no.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black            | <a href="http://www.wago.com/216-204">www.wago.com/216-204</a> |
|  | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white            | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|  | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow          | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|  | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |







### Jumpers

#### Jumper

|   |   |  |
|---|---|--|
|  | <b>Item no.: 769-402</b><br>Jumper; insulated; gray | <a href="http://www.wago.com/769-402">www.wago.com/769-402</a> |
|---|---|--|

### 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> |

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



**Item no.: 769-1605**

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

[www.wago.com/769-1605](http://www.wago.com/769-1605)



**Item no.: 769-1608**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 8-pole; gray

[www.wago.com/769-1608](http://www.wago.com/769-1608)



**Item no.: 769-1606**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 6-pole; gray

[www.wago.com/769-1606](http://www.wago.com/769-1606)



**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

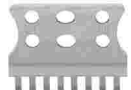
[www.wago.com/769-411](http://www.wago.com/769-411)



**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)

#### 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)

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

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**Item no.: 769-471**  
Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray



**Item no.: 769-472**  
Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray

## Downloads

### Documentation

#### Bid Text

|                                |             |               |          |
|--------------------------------|-------------|---------------|----------|
| 769-501/000-006<br>X81 - Datei | 2019 Feb 19 | xml<br>3.2 kB | Download |
|--------------------------------|-------------|---------------|----------|

|                                |            |                |          |
|--------------------------------|------------|----------------|----------|
| 769-501/000-006<br>doc - Datei | 2017 Oct 4 | doc<br>26.6 kB | Download |
|--------------------------------|------------|----------------|----------|

#### Additional Information

|  |  |               |          |
|--|--|---------------|----------|
|  |  | pdf<br>2.3 MB | Download |
|--|--|---------------|----------|

## CAD/CAE-Data

### CAD data

|                              |  |     |          |
|------------------------------|--|-----|----------|
| 2D/3D Models 769-501/000-006 |  | URL | Download |
|------------------------------|--|-----|----------|

### CAE data

|                                   |  |     |          |
|-----------------------------------|--|-----|----------|
| EPLAN Data Portal 769-501/000-006 |  | URL | Download |
|-----------------------------------|--|-----|----------|

|                                |  |     |          |
|--------------------------------|--|-----|----------|
| WSCAD Universe 769-501/000-006 |  | URL | Download |
|--------------------------------|--|-----|----------|

|                              |  |     |          |
|------------------------------|--|-----|----------|
| ZUKEN Portal 769-501/000-006 |  | URL | Download |
|------------------------------|--|-----|----------|

|                                   |  |     |          |
|-----------------------------------|--|-----|----------|
| EPLAN Data Portal 769-501/000-006 |  | URL | Download |
|-----------------------------------|--|-----|----------|

|                                |  |     |          |
|--------------------------------|--|-----|----------|
| WSCAD Universe 769-501/000-006 |  | URL | Download |
|--------------------------------|--|-----|----------|

### Asset Administration Shell

|  |  |     |          |
|--|--|-----|----------|
| Asset Administration Shell 769-501/000-006 |  | URL | Download |
|--|--|-----|----------|

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

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 769-501/000-006

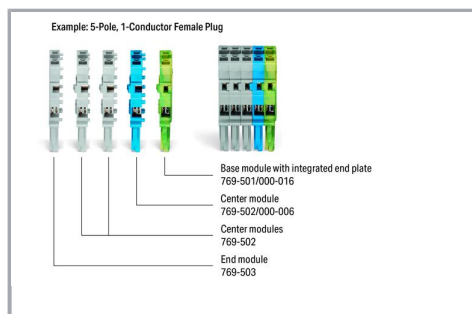
URL

Download

Start module for 1-conductor female connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 1-pole; coding finger; with integrated end plate; 4,00 mm<sup>2</sup>; blue

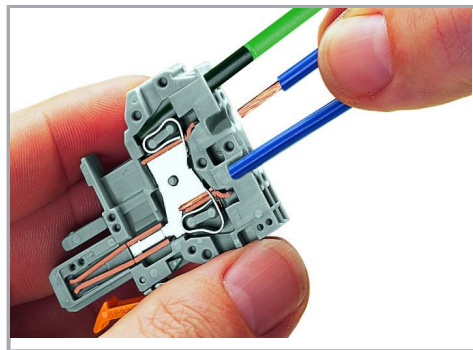
## Installation Notes

### 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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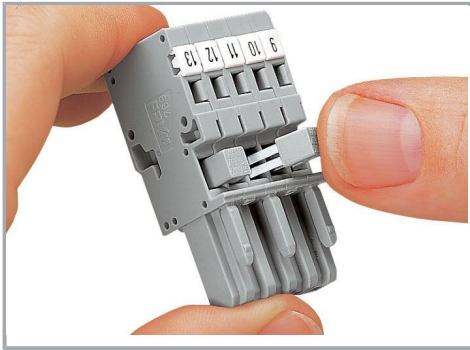
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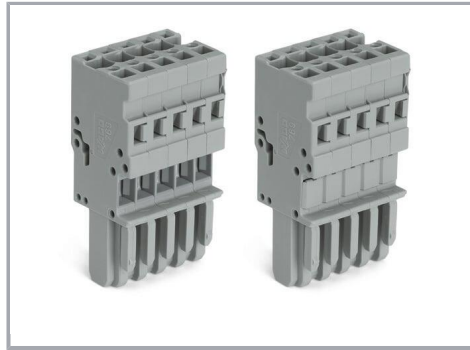
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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Commoning 1-conductor female plugs via miniature adjacent jumpers.



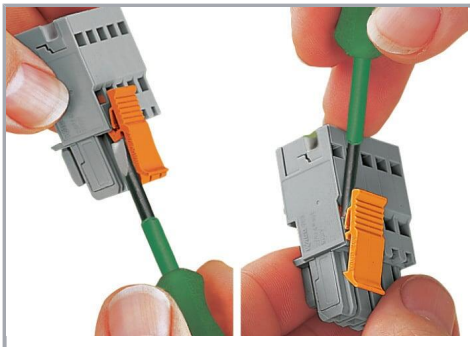
Jumper cover for 1-conductor female plugs

### 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.

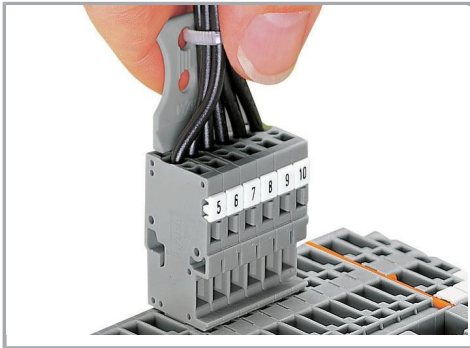
### Locking system



Locking/releasing a lever.

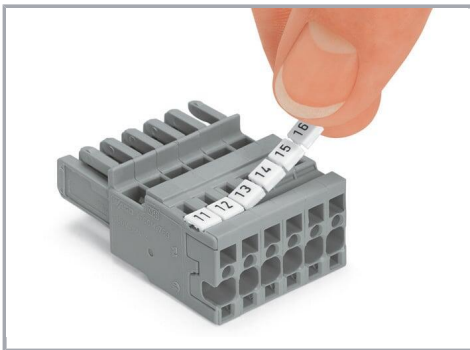
### Strain relief

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!