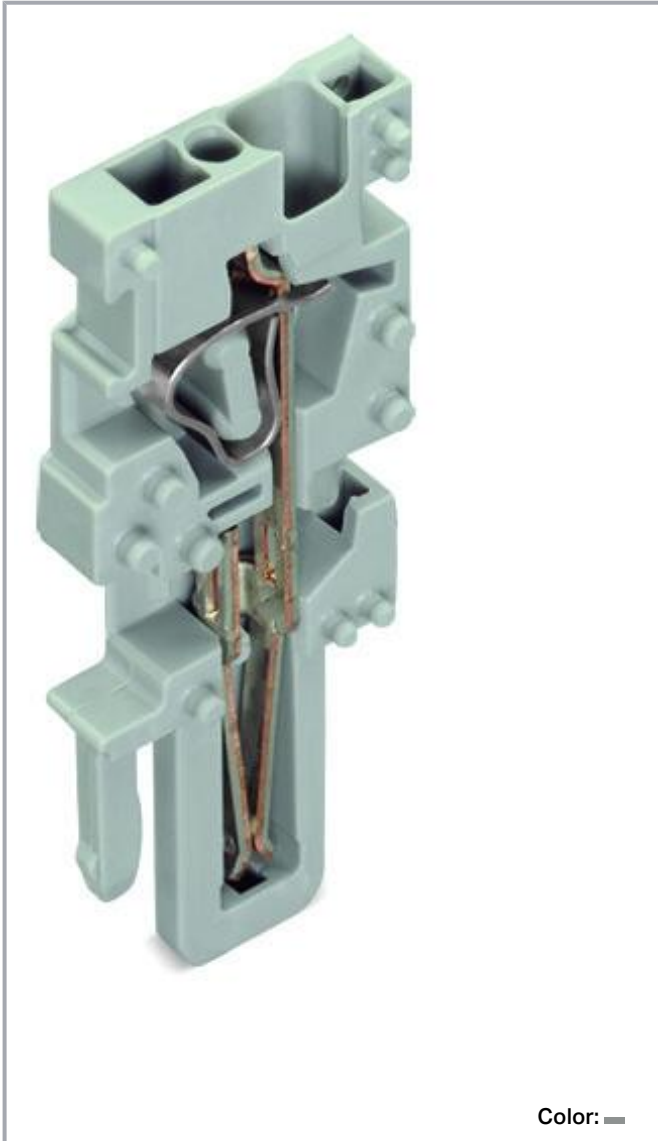


**Data sheet | Item number: 769-503**

End module for 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

[www.wago.com/769-503](http://www.wago.com/769-503)



**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).

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

WAGO GmbH & Co. KG  
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### 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

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® |
|-----------------------|-------------|

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

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|                                 |                                            |
|---------------------------------|--------------------------------------------|
| 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                         |

## 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)        | Information on material specifications can be found here |
| Color                       | gray                                                     |
| Insulation material         | Polyamide (PA66)                                         |
| Flammability class per UL94 | V0                                                       |
| Fire load                   | 0.061 MJ                                                 |
| Halogen-free                | Yes                                                      |
| Weight                      | 2.9 g                                                    |

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## 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          |
| PU (SPU)              | 250 pcs           |
| Packaging type        | bag               |
| Country of origin     | DE                |
| GTIN                  | 4017332331432     |
| 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                 | NL-47799 /A1     |
|  | CCA<br>DEKRA Certification B.V. | EN 61984                 | 2190419.02       |
|  | CSA<br>CSA Group                | C22.2                    | 1101144          |
|                                                                                    | KEMA/KEUR                       | EN 60947                 | 2190419.01       |

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



DEKRA Certification B.V.



UL  
Underwriters Laboratories Inc.

UL 1977

E 45171



UR  
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 | -                        | -                |

Optional accessories

| 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> |
|  | <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> |

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

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|                                                                                    |                                                                                                                                  |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|     | <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> |
| <b>Tool</b>                                                                        |                                                                                                                                  |                                                                |
| 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> |
| <b>Insulation stop</b>                                                             |                                                                                                                                  |                                                                |
| Insulation stop                                                                    |                                                                                                                                  |                                                                |
|   | <b>Item no.: 769-470</b><br>Insulation stop; 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st"); 5 pieces/strip; white | <a href="http://www.wago.com/769-470">www.wago.com/769-470</a> |
|  | <b>Item no.: 769-471</b><br>Insulation stop; 0.25 - 0.5 mm <sup>2</sup> ; 5 pieces/strip; light gray                             | <a href="http://www.wago.com/769-471">www.wago.com/769-471</a> |
|  | <b>Item no.: 769-472</b><br>Insulation stop; 0.75 - 1 mm <sup>2</sup> ; 5 pieces/strip; dark gray                                | <a href="http://www.wago.com/769-472">www.wago.com/769-472</a> |
| <b>Locking levers</b>                                                              |                                                                                                                                  |                                                                |
| Locking system                                                                     |                                                                                                                                  |                                                                |
|  | <b>Item no.: 769-428</b><br>Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 1-pole; gray                         | <a href="http://www.wago.com/769-428">www.wago.com/769-428</a> |
|  | <b>Item no.: 769-430</b><br>Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; gray                         | <a href="http://www.wago.com/769-430">www.wago.com/769-430</a> |
|  | <b>Item no.: 769-429</b><br>Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 1-pole; orange                       | <a href="http://www.wago.com/769-429">www.wago.com/769-429</a> |

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

**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)**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.: 210-832**

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)**Strain relief**

## Strain relief

**Item no.: 769-1604**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 4-pole; gray

[www.wago.com/769-1604](http://www.wago.com/769-1604)**Item no.: 769-1602**

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

[www.wago.com/769-1602](http://www.wago.com/769-1602)**Item no.: 769-1607**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 7-pole; gray

[www.wago.com/769-1607](http://www.wago.com/769-1607)**Item no.: 769-1609**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 9-pole; gray

[www.wago.com/769-1609](http://www.wago.com/769-1609)**Item no.: 769-1603**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 3-pole; gray

[www.wago.com/769-1603](http://www.wago.com/769-1603)

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

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**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.: 769-1605**

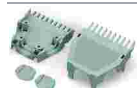
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 5-pole; gray

[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**

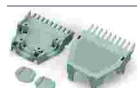
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 6-pole; gray

[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**

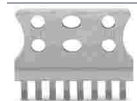
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 14-pole; gray

[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)**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)

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

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## 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)

## 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)

## Jumpers

## Jumper



Item no.: 769-402

Jumper; insulated; gray

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

## Downloads

## Documentation

## Bid Text

|             |             |         |          |
|-------------|-------------|---------|----------|
| 769-503     | 2019 Feb 19 | xml     | Download |
| X81 - Datei |             | 3.1 kB  |          |
| 769-503     | 2017 Oct 4  | doc     | Download |
| doc - Datei |             | 26.1 kB |          |

## Additional Information

pdf  
2.3 MB

Download

## CAD/CAE-Data

## CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 769-503 | URL | Download |
| WSCAD Universe 769-503    | URL | Download |
| ZUKEN Portal 769-503      | URL | Download |

## CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 769-503 | URL | Download |
|----------------------|-----|----------|

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

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Asset Administration Shell

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 769-503 | URL | Download |
|------------------------------------|-----|----------|

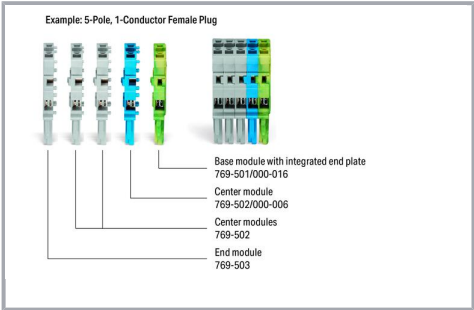
Environmental Product Compliance

Compliance Search

|                                                                                                                          |     |          |
|--------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 769-503                                                                                 | URL | Download |
| End module for 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray |     |          |

Installation Notes

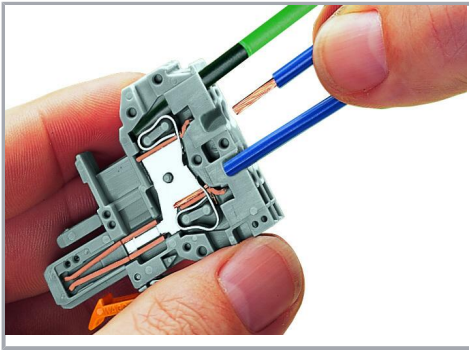
Installation



Female plugs for self-assembly

Conductor termination

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



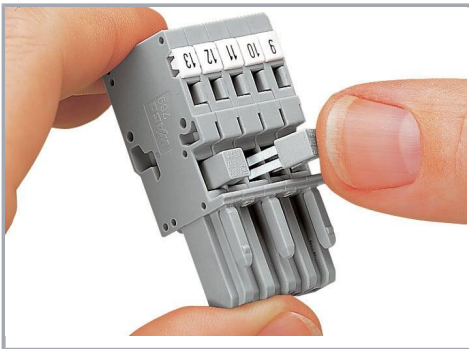
#### CAGE CLAMP® connection

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

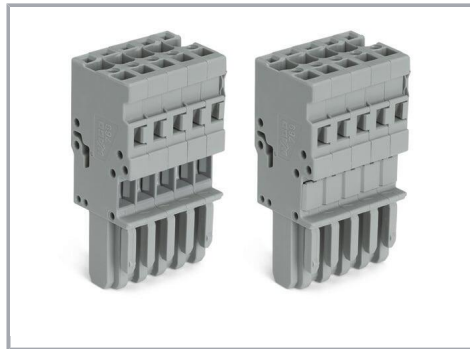
Operation 90° to conductor is also possible.

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

#### Commoning



Commoning 1-conductor female plugs via miniature adjacent jumpers.



Jumper cover for 1-conductor female plugs

#### Coding

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

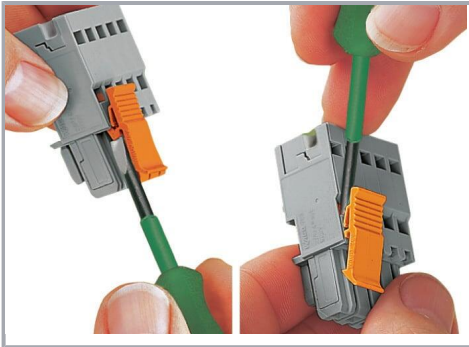
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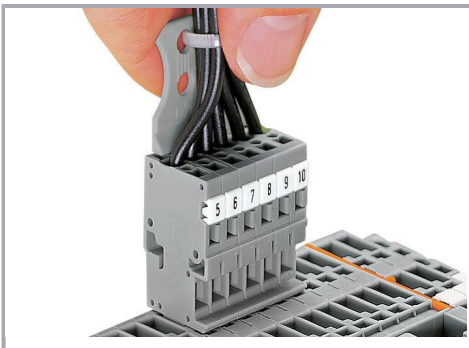
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

#### Locking system



Locking/releasing a lever.

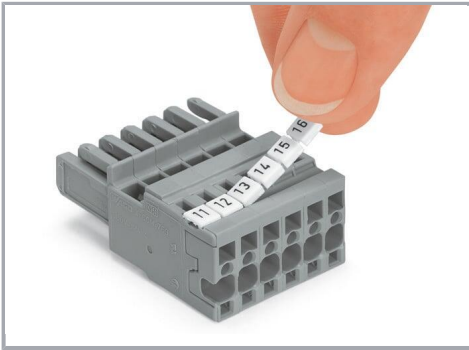
#### Strain relief



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

#### Marking

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



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

## Product family

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