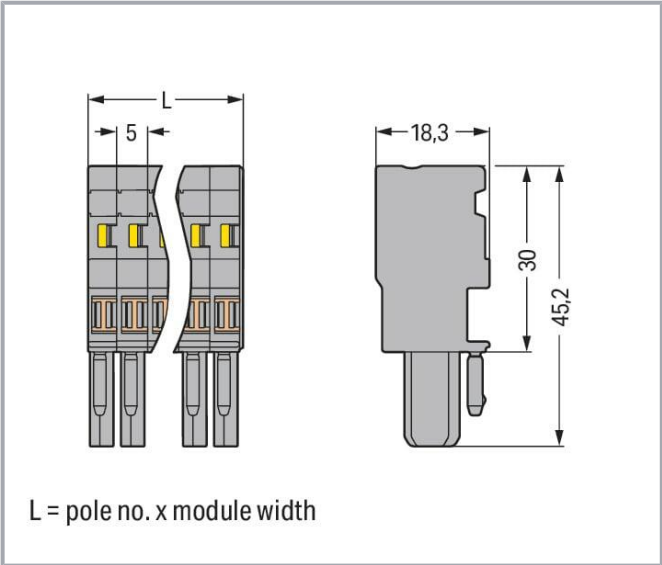
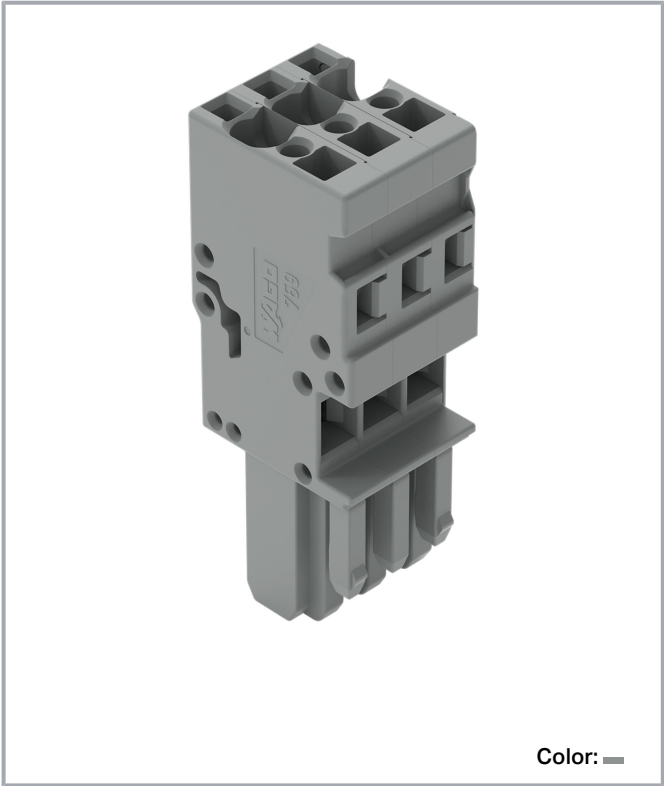


**Data sheet | Item number: 769-103**

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 3-pole; coding finger; 4,00 mm²; gray

[www.wago.com/769-103](http://www.wago.com/769-103)



**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          | 3 |
| Total number of potentials | 3 |

## 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                     | 3                                          |
| Wiring direction                | Front-entry wiring                         |

## Physical data

|              |                       |
|--------------|-----------------------|
| Width        | 15 mm / 0.591 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                   | 0.202 MJ         |
| Halogen-free                | Yes              |
| Weight                      | 9.4 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          |
| Recupel Type          |                   |
| PU (SPU)              | 50 pcs            |
| Packaging type        | box               |
| Country of origin     | DE                |
| GTIN                  | 4044918471343     |
| Customs tariff number | 85366990990       |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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

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|                                                                                    |                                       |           |              |
|------------------------------------------------------------------------------------|---------------------------------------|-----------|--------------|
|    | CCA<br>DEKRA Certification B.V.       | EN 60947  | NTR NL-7626  |
|                                                                                    | CCA<br>DEKRA Certification B.V.       | IEC 61984 | NL-47799 /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-HG1941090-    |

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**BV**  
Bureau Veritas S.A.

EN 60947

07436/F0  
BV

## Counterpart



### Item no.769-163/769-313

2-pin terminal block for pluggable modules; 6-pole; with 2 jumper positions; with orange separator plate; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/769-163/769-313](http://www.wago.com/769-163/769-313)



### Item no.769-183/769-314

1-conductor/1-pin terminal block for pluggable modules; 6-pole; with 2 jumper positions; with orange separator plate; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-183/769-314](http://www.wago.com/769-183/769-314)



### Item no.769-603/001-000

1-conductor male connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 3-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-603/001-000](http://www.wago.com/769-603/001-000)



### Item no.769-603

1-conductor male connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 3-pole; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-603](http://www.wago.com/769-603)



### Item no.769-603/002-000

1-conductor male connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 3-pole; clamping collar; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-603/002-000](http://www.wago.com/769-603/002-000)



### Item no.769-603/004-000

1-conductor male connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 3-pole; Feedthrough flange; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-603/004-000](http://www.wago.com/769-603/004-000)



### Item no.769-633

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 3-pole; gray

[www.wago.com/769-633](http://www.wago.com/769-633)



### Item no.769-603/005-000

1-conductor male connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 3-pole; Snap-in flange; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-603/005-000](http://www.wago.com/769-603/005-000)

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

**Item no. 769-603/006-000**

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 3-pole; Snap-in flange; 4,00 mm²; gray

[www.wago.com](http://www.wago.com)[/769-603/006-000](http://www.wago.com/769-603/006-000)**Item no. 769-633/000-036**

THT male header; 1.0 x 1.0 mm solder pin; straight; Preceding ground contact; Pin spacing 5 mm; 3-pole; green-yellow, gray

[www.wago.com](http://www.wago.com)[/769-633/000-036](http://www.wago.com/769-633/000-036)**Item no. 769-633/003-036**

THT male header; 1.0 x 1.0 mm solder pin; straight; Preceding ground contact; clamping collar; Pin spacing 5 mm; 3-pole; green-yellow, gray

[www.wago.com](http://www.wago.com)[/769-633/003-036](http://www.wago.com/769-633/003-036)**Item no. 769-633/003-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 3-pole; gray

[www.wago.com](http://www.wago.com)[/769-633/003-000](http://www.wago.com/769-633/003-000)**Item no. 769-633/004-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; Feedthrough flange; Pin spacing 5 mm; 3-pole; gray

[www.wago.com](http://www.wago.com)[/769-633/004-000](http://www.wago.com/769-633/004-000)**Item no. 769-633/007-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 3-pole; gray

[www.wago.com](http://www.wago.com)[/769-633/007-000](http://www.wago.com/769-633/007-000)**Item no. 769-663/003-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; clamping collar; Pin spacing 5 mm; 3-pole; gray

[www.wago.com](http://www.wago.com)[/769-663/003-000](http://www.wago.com/769-663/003-000)**Item no. 769-663/004-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; Feedthrough flange; Pin spacing 5 mm; 3-pole; gray

[www.wago.com](http://www.wago.com)[/769-663/004-000](http://www.wago.com/769-663/004-000)**Item no. 769-663**

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 3-pole; gray

[www.wago.com](http://www.wago.com)[/769-663](http://www.wago.com/769-663)

## Optional accessories

### 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)

### Insulation stop

#### Insulation stop

**Item no.: 769-470**

Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "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[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)**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)**Strain relief**

Strain relief

**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)**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)**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)

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

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## 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)

### 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

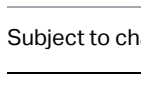
[www.wago.com/216-203](http://www.wago.com/216-203)



**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)

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

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|                                                                                 |                                                                                                                               |                                                                |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <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> |

**Downloads****Documentation****Bid Text**

|                        |             |                |          |
|------------------------|-------------|----------------|----------|
| 769-103<br>X81 - Datei | 2019 Feb 19 | xml<br>3.3 kB  | Download |
| 769-103<br>doc - Datei | 2017 Oct 4  | doc<br>25.6 kB | Download |

**Additional Information**

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

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

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 769-103 | URL | Download |
|----------------------|-----|----------|

**CAE data**

|                           |     |          |
|---------------------------|-----|----------|
| WSCAD Universe 769-103    | URL | Download |
| ZUKEN Portal 769-103      | URL | Download |
| EPLAN Data Portal 769-103 | URL | Download |

**Asset Administration Shell**

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 769-103 | URL | Download |
|------------------------------------|-----|----------|

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 769-103

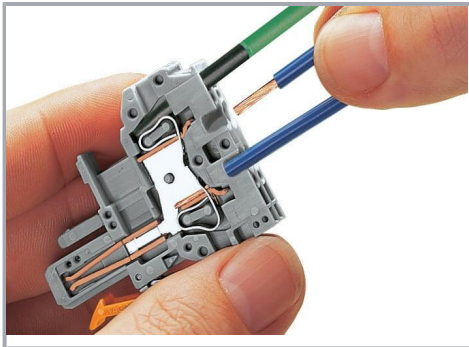
URL

Download

1-conductor female connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 3-pole;  
coding finger; 4,00 mm<sup>2</sup>; gray

## Installation Notes

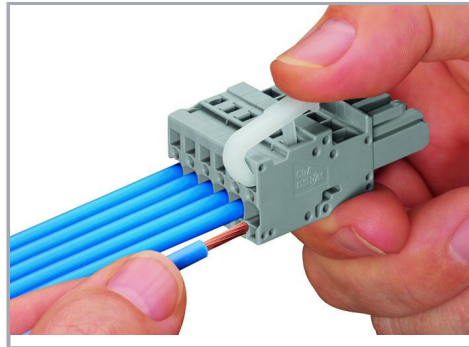
### Conductor termination



#### CAGE CLAMP® connection

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

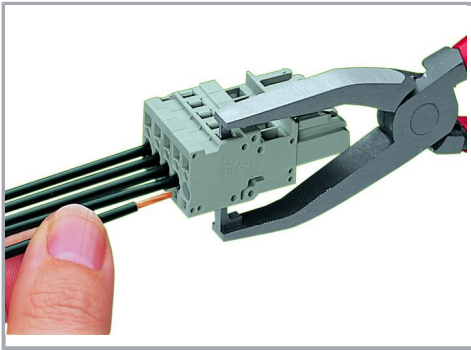
Operation 90° to conductor is also possible.  
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.



#### Operating lever

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

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

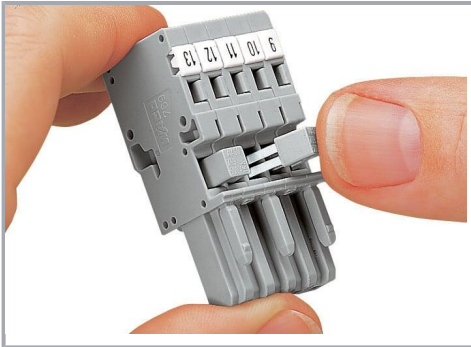


#### Operating tool

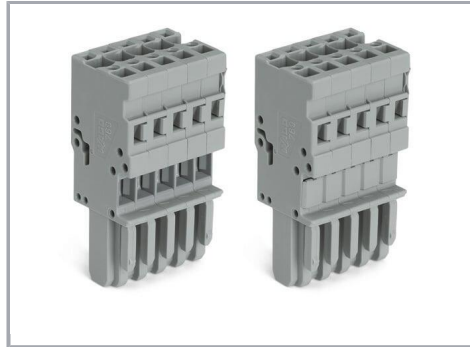
Inserting a conductor – side-entry wiring  
(example shows a female plug).

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

#### Commoning



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!

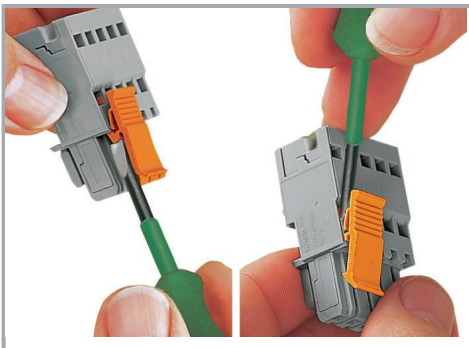
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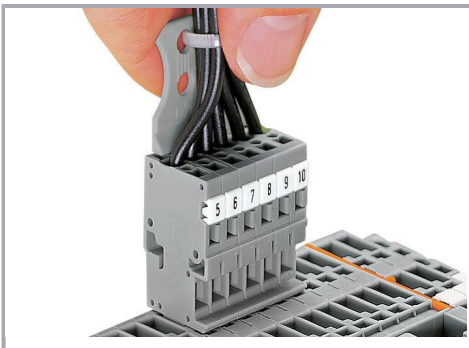
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

#### Locking system



Locking/releasing a lever.

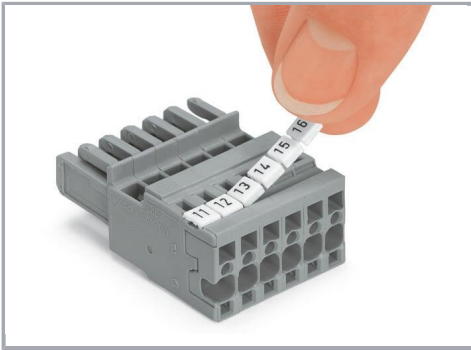
#### Strain relief



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

### X-COM

[Show all products from the family](#)

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

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