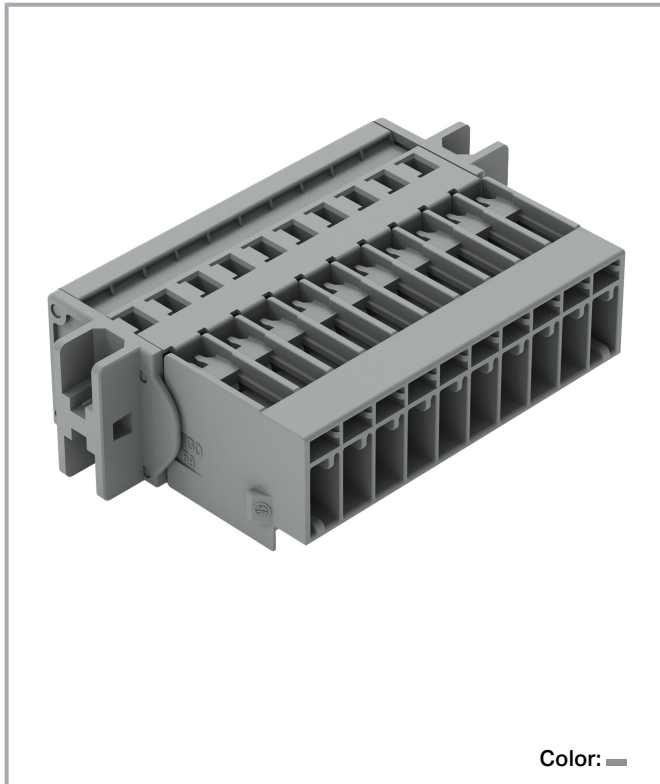


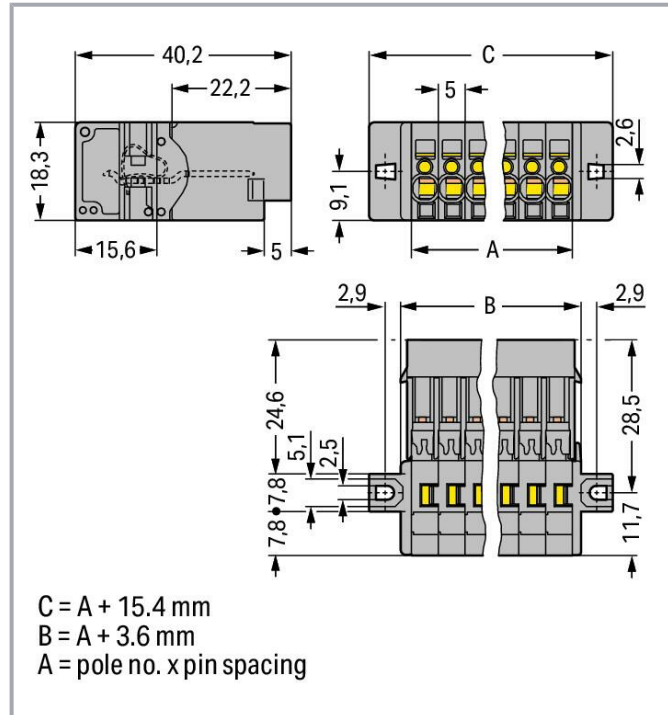
## Data sheet | Item number: 769-610/002-000

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

[www.wago.com/769-610/002-000](http://www.wago.com/769-610/002-000)



Color:



### Data

#### Electrical data

#### Ratings per IEC/EN

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

#### Connection data

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

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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## Connection 1

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

## Physical data

|                         |                        |
|-------------------------|------------------------|
| Pin spacing             | 5 mm / 0.197 inches    |
| Width                   | 65.4 mm / 2.575 inches |
| Height from the surface | 18.3 mm / 0.72 inches  |
| Depth                   | 40.2 mm / 1.583 inches |

## Mechanical Data

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| Variable coding                                        | Yes             |
| Direct ground contact to DIN-rail/drilled hole/housing | No              |
| Mounting type                                          | Mounting flange |
| Anti-rotation protection                               | Yes             |

## Plug-in connection

|                                      |                     |
|--------------------------------------|---------------------|
| Contact type (pluggable connector)   | Male connector/plug |
| Connector (connection type)          | for conductor       |
| Mismating protection                 | No                  |
| Plugging without loss of pin spacing | No                  |

## Material data

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Note (material data) | Information on material specifications can be found here |
| Color                | gray                                                     |
| Material group       | I                                                        |
| Insulation material  | Polyamide (PA66)                                         |

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



|                             |          |
|-----------------------------|----------|
| Flammability class per UL94 | V0       |
| Fire load                   | 0.681 MJ |
| Weight                      | 30.4 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          |
| PU (SPU)              | 25 pcs            |
| Packaging type        | Box               |
| Country of origin     | PL                |
| GTIN                  | 4044918521550     |
| Customs tariff number | 85366930000       |

### 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 61984                 | 2190419.02       |
|  | CCA<br>DEKRA Certification B.V. | EN 60947                 | NTR NL-7626      |
|                                                                                    | CCA<br>DEKRA Certification B.V. | IEC 61984                | NL-47799 /A1     |
|                                                                                    | CSA                             | C22.2                    | 1101144          |

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

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32423 Minden  
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CSA Group



KEMA/KEUR  
DEKRA Certification B.V.

EN 60947

2190419.01



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 | -                        | -                |

## Approvals for marine applications

| Logo                                                                               | Approval                                         | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|------------------|
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001V2       |

## Counterpart



## Item no.769-110

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

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

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

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32423 Minden  
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**Item no.769-110/021-000**1-conductor female connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 10-pole; coding finger; Lateral locking levers; 4,00 mm<sup>2</sup>; gray[www.wago.com/769-110/021-000](http://www.wago.com/769-110/021-000)**Item no.769-130**2-conductor female connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 10-pole; coding finger; 4,00 mm<sup>2</sup>; gray[www.wago.com/769-130](http://www.wago.com/769-130)**Optional accessories****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> |
|    | <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> |

**Insulation stop**

| 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> |

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

**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)**Item no.: 210-833**

Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://www.wago.com/210-833)**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)

## Marker

**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)**Protective warning marker**

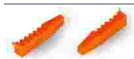
## Cover

**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)**Coding**

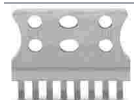
## Coding

**Item no.: 769-435**

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

[www.wago.com/769-435](http://www.wago.com/769-435)**Strain relief**

## Strain relief

**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)**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)

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

WAGO GmbH &amp; Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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

|                                |             |               |          |
|--------------------------------|-------------|---------------|----------|
| 769-610/002-000<br>X81 - Datei | 2019 Feb 19 | xml<br>3.3 kB | Download |
|--------------------------------|-------------|---------------|----------|

|                                |            |                |          |
|--------------------------------|------------|----------------|----------|
| 769-610/002-000<br>doc - Datei | 2017 Oct 4 | doc<br>25.6 kB | Download |
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**Additional Information**

|  |  |               |          |
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|  |  | pdf<br>2.3 MB | Download |
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**CAD/CAE-Data****CAD data**

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 769-610/002-000 | URL | Download |
|------------------------------|-----|----------|

**CAE data**

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

|                                |     |          |
|--------------------------------|-----|----------|
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**Asset Administration Shell**

|                                            |     |          |
|--------------------------------------------|-----|----------|
| Asset Administration Shell 769-610/002-000 | URL | Download |
|--------------------------------------------|-----|----------|

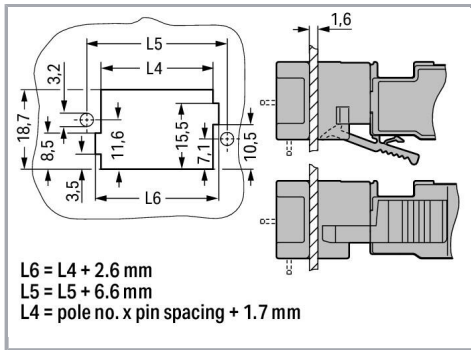
**Environmental Product Compliance****Compliance Search**

|                                                                                                                                                                   |     |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 769-610/002-000<br>1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole;<br>clamping collar; 4,00 mm²; gray | URL | Download |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|

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

## Installation Notes

### Installation



### Cutout

Headers with solder pins and mounting flanges

### Conductor termination

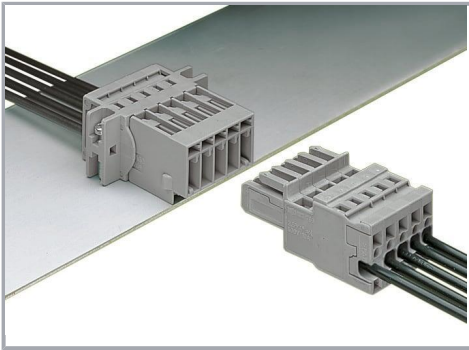


### Operating tool

Inserting a conductor via operating tool  
(example shows a male connector).

### Application

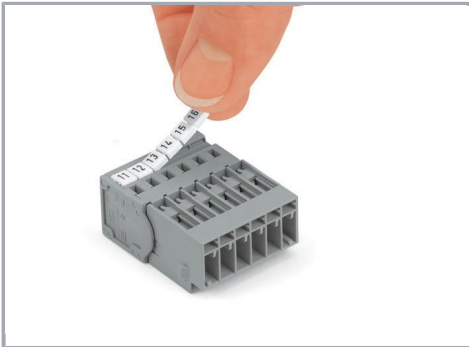
Subject to changes. Please also observe the further product documentation!



Male connector with CAGE CLAMP® and mounting flanges

1-connector female plug, straight

### Marking



Labeling a male connector 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!