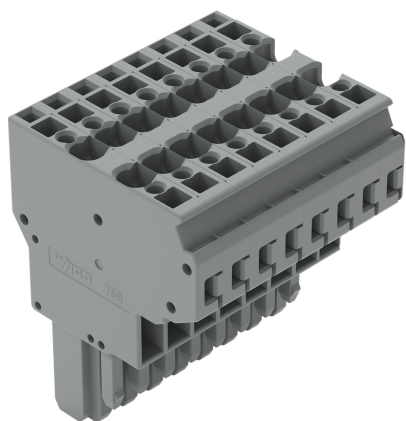


<https://www.wago.com/769-128>



Dimensions in mm

## Safety information

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

| Ratings per          | IEC/EN 61984 |     |    |
|----------------------|--------------|-----|----|
| Overvoltage category | III          | III | II |
| Pollution degree     | 3            | 2   | 2  |
| Nominal voltage      | 500 V        | -   | -  |
| Rated surge voltage  | 6 kV         | -   | -  |
| Rated current        | 32 A         | -   | -  |

|                            |    |
|----------------------------|----|
| Connection points          | 16 |
| Total number of potentials | 8  |

|                                 |                                   |
|---------------------------------|-----------------------------------|
| 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                     | 8                                 |
| Wiring direction                | Front-entry wiring                |

### Physical data

|              |                        |
|--------------|------------------------|
| Width        | 40 mm / 1.575 inches   |
| Height       | 45.2 mm / 1.78 inches  |
| Depth        | 35.9 mm / 1.413 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="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | gray                                                                                                                   |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.764 MJ                                                                                                               |
| Halogen-free                | Yes                                                                                                                    |
| Weight                      | 41.6 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)              | 10 pcs            |
| Packaging type        | Box               |
| Country of origin     | PL                |
| GTIN                  | 4044918474160     |
| Customs tariff number | 85366990990       |



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

Approvals / Certificates

| General approvals                       |           |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|-----------------------------------------|-----------|------------------|------------------------------------------------------------|----------|------------------|
|                                         |           |                  |                                                            |          |                  |
| Approval                                | Standard  | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.         | EN 60947  | NTR NL-7626      | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.         | EN 61984  | 2190419.02       | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.         | IEC 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<br>Inc. | UL 1977   | E 45171          |                                                            |          |                  |
| UR<br>Underwriters Laboratories<br>Inc. | UL 1059   | E45172           |                                                            |          |                  |

Approvals for marine applications

| Approval                                | Standard | Certificate Name |
|-----------------------------------------|----------|------------------|
| ABS<br>American Bureau of Ship-<br>ping | EN 60947 | 20-HG1941090-PDA |

Downloads

| Environmental Product Compliance            |  |
|---------------------------------------------|--|
| Compliance Search                           |  |
| Environmental Product<br>Compliance 769-128 |  |

Documentation

| Additional Information |                   | Bid Text |                               |
|------------------------|-------------------|----------|-------------------------------|
| Technical Section      | pdf<br>2240.62 KB | 769-128  | 19.02.2019<br>xml<br>3.21 KB  |
|                        |                   | 769-128  | 04.10.2017<br>doc<br>25.50 KB |
|                        |                   |          |                               |



| CAD/CAE-Data                                                     |                                                                       |
|------------------------------------------------------------------|-----------------------------------------------------------------------|
| <div>CAD data</div> <div>2D/3D Models 769-128</div> <div>↓</div> | <div>CAE data</div> <div>EPLAN Data Portal 769-128</div> <div>↓</div> |
|                                                                  | <div>WSCAD Universe 769-128</div> <div>↓</div>                        |
|                                                                  | <div>ZUKEN Portal 769-128</div> <div>↓</div>                          |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

|                                                                                                                                                                                                                 |                                                                                                                                                                                                                             |                                                                                                                                                                                                                |                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><a href="#">Item No.: 216-301</a><br/>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</div> |  <div><a href="#">Item No.: 216-302</a><br/>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</div>    |  <div><a href="#">Item No.: 216-201</a><br/>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</div>  |  <div><a href="#">Item No.: 216-101</a><br/>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored</div> |
|  <div><a href="#">Item No.: 216-202</a><br/>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</div>   |  <div><a href="#">Item No.: 216-102</a><br/>Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored</div>  |  <div><a href="#">Item No.: 216-203</a><br/>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red</div>      |  <div><a href="#">Item No.: 216-103</a><br/>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated</div>                   |
|  <div><a href="#">Item No.: 216-204</a><br/>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black</div> |  <div><a href="#">Item No.: 216-104</a><br/>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored</div> |  <div><a href="#">Item No.: 216-206</a><br/>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue</div> |                                                                                                                                                                                                                             |

1.1.2 Insulation stop

1.1.2.1 Insulation stop

|                                                                                                                                                                                                                   |                                                                                                                                                                                                  |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><a href="#">Item No.: 769-470</a><br/>Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white</div> |  <div><a href="#">Item No.: 769-471</a><br/>Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray</div> |  <div><a href="#">Item No.: 769-472</a><br/>Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray</div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.1.3 Jumper

1.1.3.1 Jumper

|                                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><a href="#">Item No.: 280-402</a><br/>Jumper; insulated; gray</div>                        |  <div><a href="#">Item No.: 780-452</a><br/>Staggered jumper; from 1 to 2; insulated; gray</div> |  <div><a href="#">Item No.: 780-453</a><br/>Staggered jumper; from 1 to 3; insulated; gray</div> |  <div><a href="#">Item No.: 780-454</a><br/>Staggered jumper; from 1 to 4; insulated; gray</div> |
|  <div><a href="#">Item No.: 780-455</a><br/>Staggered jumper; from 1 to 5; insulated; gray</div> |  <div><a href="#">Item No.: 780-456</a><br/>Staggered jumper; from 1 to 6; insulated; gray</div> |  <div><a href="#">Item No.: 780-457</a><br/>Staggered jumper; from 1 to 7; insulated; gray</div> |  <div><a href="#">Item No.: 780-458</a><br/>Staggered jumper; from 1 to 8; insulated; gray</div> |



1.1.4 Locking system

1.1.4.1 Locking system



**Item No.: 769-430**  
Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; gray

**Item No.: 769-431**  
Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; orange

1.1.5 Marking

1.1.5.1 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

**Item No.: 248-501**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

1.1.6 Protective warning marker

1.1.6.1 Cover



**Item No.: 280-415**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.1.7 Strain relief

1.1.7.1 Strain relief



**Item No.: 769-413**  
Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 6- to 9-pole; gray

1.1.8 Test and measurement

1.1.8.1 Testing accessories



**Item No.: 210-136**  
Test plug; 2 mm Ø; with 500 mm cable; red

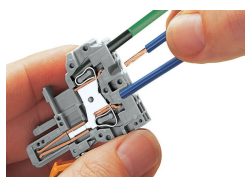
## Installation Notes



### 2-conductor female plugs

- Common signals from one subassembly to the other (bus structure)
- Can be used as a T-wire branch tap connection (e.g. for lighting wiring)
- Enable a higher number of connection possibilities

## Conductor termination

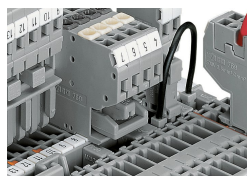


### CAGE CLAMP® connection

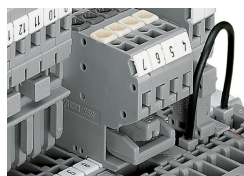
Female plug: Inserting/removing a conductor via operating tool.  
Operation 90° to conductor is also possible.

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

## Commoning



Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.



### Commoning options of female plugs:

- After removal, commoned potentials still remain commoned
- Use of plug-in jumpers instead of additional wired jumpers
- Can be used as a "hardware" key for safety lockout
- Can also be used as a commoning jumper for sensor circuits or machine programming

## 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



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.