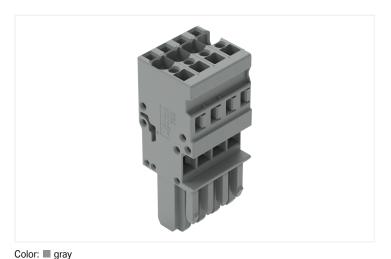
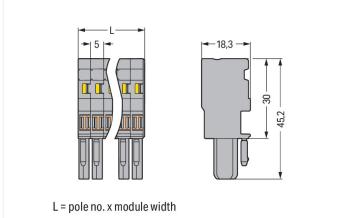
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 4-pole;

coding finger; 4,00 mm<sup>2</sup>; gray

https://www.wago.com/769-104







Dimensions in mm

Female connector, 769 Series, operating tool

Easy electrical installations are guaranteed with this female connector (item number 769-104). Pluggable rail-mount terminal blocks are primarily found in switchgear units and control systems, most notably in railroad technology. These innovative systems combine the properties of rail-mount terminal blocks and connectors for a flexible and reliable wiring system. You also have the option of pre-assembling installations, which not only makes production but also installation, operation, and maintenance more efficient and cost-effective. Rated current and voltage are key factors to consider when selecting a pluggable rail-mount terminal block, as they indicate possible applications and uses. This product has a rated voltage of 500 V and a rated current of 32 A. Conductors can only be connected to this female connector if their strip length is between 8 mm and 9 mm. Featuring conductor terminals along with CAGE CLAMP®, this connector delivers reliable performance. Our trusted universal connection known as CAGE CLAMP® is the industry standard for connection technology and electrical interconnections. The dimensions are 20 x 45.2 x 18.3 mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.08 mm² to 4 mm². Up to four potentials / four poles can be connected to this terminal strip using four clamping points. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this female connector/ socket. Conductors made of copper can be connected via front-entry wiring.

### 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 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 data              |   |   |                                 |                           |
|------------------------------|---|---|---------------------------------|---------------------------|
| Clamping units               | 4 |   | Connection 1                    |                           |
| Total number of potentials 4 | 4 | 4 | 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                     | 4                         |

### Data Sheet | Item Number: 769-104 https://www.wago.com/769-104



### Connection 1

Wiring direction Front-entry wiring

| Physical data |                       |
|---------------|-----------------------|
| Width         | 20 mm / 0.787 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)               |   |
|                                    | <u>Information on material specifications can be found here</u> |
| Color                              | gray  |
| Material group                     | I   |
| Insulation material (main housing) | Polyamide (PA66)  |
| Flammability class per UL94        | V0  |
| Fire load                          | 0.245 MJ  |
| Halogen-free                       | Yes   |
| Weight                             | 12.5 g  |

| Environmental requirements       |             |
|----------------------------------|-------------|
| Processing temperature           | -35 +85 °C  |
| Continuous operating temperature | -60 +105 °C |

| Commercial data       |                   |
|-----------------------|-------------------|
| Product Group         | 18 (X-COM-System) |
| PU (SPU)              | 50 pcs            |
| Packaging type        | Box               |
| Country of origin     | DE                |
| GTIN                  | 4044918471442     |
| Customs tariff number | 85366990990       |

https://www.wago.com/769-104



| Product classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-14-11-06          |
| eCl@ss 9.0             | 27-14-11-06          |
| ETIM 9.0               | EC001284             |
| ETIM 8.0               | EC001284             |
| ECCN                   | NO US CLASSIFICATION |

### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

### Approvals / Certificates

### General approvals



DEKRA Certification B.V.

DEKRA Certification B.V.

Approval CCA

CCA

CCA









| Standard  | Certificate Name |
|-----------|------------------|
| EN 60947  | NTR NL-7626      |
| EN 61984  | 2190419.02       |
| IEC 61984 | NL-47799/A1      |

1101144

E 45171

2190419.01

DEKRA Certification B.V. CSA

CSA Group KEMA/KEUR EN 60947 DEKRA Certification B.V.

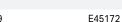
UL Underwriters Laboratories Inc.

UR **Underwriters Laboratories** Inc.

UL 1059

UL 1977

C22.2



### Approvals for marine applications





| Approval  | Standard | Certificate Name |
|---|----------|------------------|
| ABS<br>American Bureau of Ship-<br>ping               | EN 60947 | 20-HG1941090-PDA |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd | -        | TAE00001V2       |

### Declarations of conformity and manufacturer's declarations



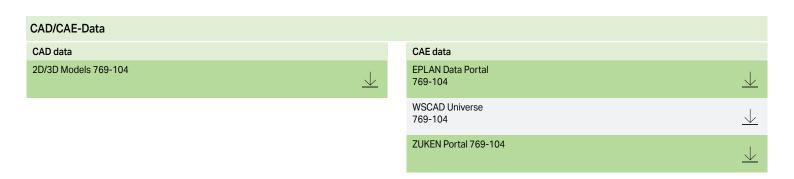
| Approval  | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | -        | -                |
| Railway<br>WAGO GmbH & Co. KG                   | -        | Z00004428.000    |

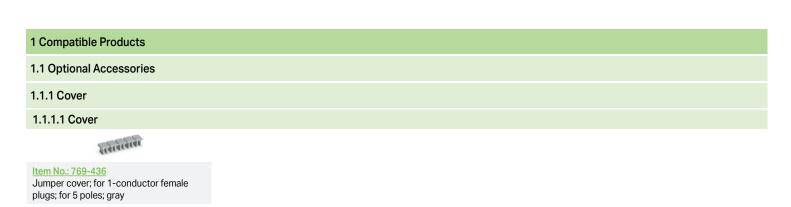
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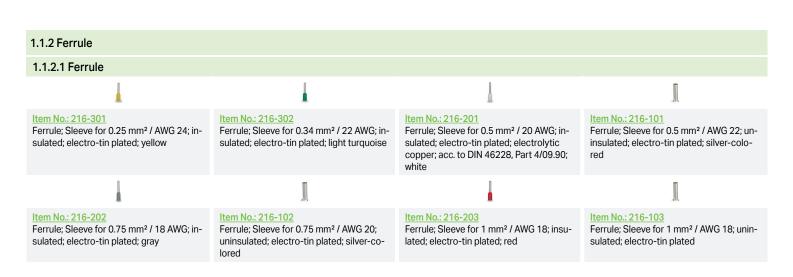


### Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 769-104

## Documentation Bid Text xml 769-104 xml 19.02.2019 3.20 KB √ √ 769-104 04.10.2017 doc 25.00 KB √







https://www.wago.com/769-104



### 1.1.2.1 Ferrule



Item No.: 216-204

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-coloItem No.: 216-206

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; blue

### 1.1.3 Insulation stop

### 1.1.3.1 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

acce

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

### 1.1.4 Jumper

### 1.1.4.1 Jumper



Item No.: 769-402

Jumper; insulated; gray

### 1.1.5 Locking system

### 1.1.5.1 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

### 1.1.6 Marking

### 1.1.6.1 Label



Item No.: 210-805

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; 3000 pieces on roll; white

Item No.: 210-805/000-002

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; 3000 pieces on roll; yellow

### 1.1.6.2 Marker



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

https://www.wago.com/769-104



### 1.1.6.3 Marking strip

Item No.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

Item No.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

Item No.: 210-834

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

### 1.1.7 Protective warning marker

### 1.1.7.1 Cover



### Item No.: 280-415

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

### 1.1.8 Strain relief

### 1.1.8.1 Strain relief





Item No.: 769-1604

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

### Item No.: 769-412

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 4-to 5-pole; gray

### 1.1.9 Test and measurement

### 1.1.9.1 Testing accessories



Item No.: 210-136

Test plug; 2 mm  $\emptyset$ ; with 500 mm cable; red

### 1.1.10 Tool

### 1.1.10.1 Operating tool





<u>Item No.: 210-490</u>

Operating tool

<u>Item No.: 769-434</u>

Operating tool; made of insulating material; 1-way; loose; white



### **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).



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



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.

https://www.wago.com/769-104



### 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.

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