Start module for 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; with integrated end plate; 4,00 mm²; gray https://www.wago.com/769-501



Color: ■ gray

Female connector, 769 Series, gray

This female connector (item number 769-501) simplifies electrical installations. 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. Our pluggable rail-mount terminal block is rated for 500 V and is designed to handle a rated current of up to 32 A. Strip lengths must be between 8 mm and 9 mm when connecting conductors to this female connector. This product features conductor terminals and utilizes CAGE CLAMP®. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are 5 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 one potential / one pole can be connected to this terminal block using one clamping point. The gray housing is made of polyamide (PA66) for insulation. This female connector/ socket is operated with an operating tool. Conductors made of copper can be connected thanks to 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	-	-

nnection data				
lamping units	1		Connection 1	
Total number of potentials 1	1	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	1
			Wiring direction	Front-entry wiring

https://www.wago.com/769-501



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)

Connector (connection type)

Mismating protection

Plugging without loss of pin spacing

Female connector/socket

for conductor

No

Yes

Material data

Note (material data)

<u>Information on material specifications can be found here</u>

Color gray

Insulation material (main housing) Polyamide (PA66)

Flammability class per UL94 V0
Fire load 0.08 MJ
Halogen-free Yes
Weight 3.3 g

Environmental requirements

Processing temperature $-35 \dots +85 \, ^{\circ} \! C$ Continuous operating temperature $-60 \dots +105 \, ^{\circ} \! C$

Commercial data

 Product Group
 18 (X-COM-System)

 PU (SPU)
 250 pcs

 Packaging type
 Bag

 Country of origin
 DE

 GTIN
 4017332331418

 Customs tariff number
 85366990990

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

https://www.wago.com/769-501



Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals











Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004428.000

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626
CCA DEKRA Certification B.V.	EN 61984	2190419.02
CCA DEKRA Certification B.V.	EN 61984	NL-47799/A1
CSA CSA Group	C22.2	1101144
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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 769-501



Documentation

Bid Text			
769-501	19.02.2019	xml 3.12 KB	$\underline{\downarrow}$
769-501	04.10.2017	doc 25.50 KB	$\underline{\downarrow}$

CAD/CAE-Data

CAD data

2D/3D Models 769-501



CAE data

EPLAN Data Portal 769-501



ZUKEN Portal 769-501



https://www.wago.com/769-501



1 Compatible Products

1.1 Optional Accessories

1.1.1 Cover

1.1.1.1 Cover



Item No.: 769-436

Jumper cover; for 1-conductor female plugs; for 5 poles; gray

1.1.2 Ferrule

1.1.2.1 Ferrule

Item No.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; in-

sulated; electro-tin plated; yellow

Item No.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item No.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colo-

Item No.: 216-206

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue

1.1.3 Insulation stop

1.1.3.1 Insulation stop



and



Item No.: 769-470

Insulation stop; 0.08 - 0.2 mm2 "s" (0.14 mm2 "f-st"); 5 pieces/strip; white

Item No.: 769-471

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

Item No.: 769-472

Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; dark gray

1.1.4 Jumper

1.1.4.1 Jumper



Item No.: 769-402

Jumper; insulated; gray

https://www.wago.com/769-501



1.1.5 Locking system

1.1.5.1 Locking system









Item No.: 769-428

Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 1-pole; gray

Item No.: 769-429

Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 1-pole; orange

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.: 210-805/000-002

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

1.1.6.2 Marker

white



Item No.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Labels; for Smart Printer; permanent ad-

hesive; 6 x 15 mm; 3000 pieces on roll;

Item No.: 248-501

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

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

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.: 769-1612 Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 12-pole; gray



Item No.: 769-1613

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

Item No.: 769-1610

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 10-pole; gray

Item No.: 769-1611

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 11-pole; gray

13-pole; gray

https://www.wago.com/769-501

MAGO

1.1.8.1 Strain relief



Item No.: 769-1614

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

Item No.: 769-1615

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 15-pole; gray

Item No.: 769-1602

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

Item No.: 769-1603

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

Item No.: 769-1604

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

Item No.: 769-1605

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

Item No : 769-1606

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

Item No : 769-1607

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



Item No.: 769-1608

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 8-pole; gray

Item No.: 769-1609

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

Item No.: 769-414

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 10-to 15-pole; gray

Item No.: 769-410

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

Item No.: 769-411

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 2-to 3-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

Item No.: 769-413

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 6-to 9-pole; gray

1.1.9 Test and measurement

1.1.9.1 Testing accessories



Item No.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red

1.1.10 Tool

1.1.10.1 Operating tool





Item No.: 210-490

Operating tool

Item No.: 769-434

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

Installation Notes

Installation



Female plugs for self-assembly

https://www.wago.com/769-501



Conductor termination



CAGE CLAMP® connection

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

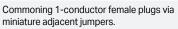
Operation 90° to conductor is also possi-

Operation 90° to conductor is also possi ble.

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

Commoning







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.

Strain relief



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

https://www.wago.com/769-501



Marking



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

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$