

Data Sheet | Item Number: 769-503

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

<https://www.wago.com/769-503>



Color: ■ gray

Female connector, 769 Series, gray

Enjoy easy electrical installations with this female connector (item number 769-503). Pluggable rail-mount terminal blocks are mainly used in switchgear units and control systems (e.g., in railroad technology). They are essentially a combination of rail-mount terminal blocks and pluggable connectors. You can also pre-assemble installations thanks to the variable wiring system. This saves both time and money during manufacture, installation, operation, and maintenance. This pluggable rail-mount terminal block has a rated voltage of 500 V and can handle currents up to 32 A. Ensure that the strip lengths are between 8 mm and 9 mm when connecting conductors to this female connector. Featuring conductor terminals along with CAGE CLAMP®, this product delivers reliable performance. Our highly-rated 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). Depending on the conductor type, this female connector is ideal for conductor cross sections ranging from 0.08 mm² to 4 mm². The single potential can connect one pole 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	-	-

Connection data

Clamping units	1	Connection 1	
Total number of potentials	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

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)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	No
Plugging without loss of pin spacing	Yes

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.061 MJ
Halogen-free	Yes
Weight	2.9 g

Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data

Product Group	18 (X-COM-System)
PU (SPU)	250 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4017332331432
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



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 DEKRA Certification B.V.	EN 60947	NTR NL-7626	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 61984	2190419.02	Railway WAGO GmbH & Co. KG	-	Z00004428.000
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 769-503	

Documentation

Bid Text			
769-503	19.02.2019	xml 3.07 KB	
769-503	04.10.2017	doc 25.50 KB	

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 769-503		EPLAN Data Portal 769-503	
		WSCAD Universe 769-503	
		ZUKEN Portal 769-503	



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; insulated; 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; un-insulated; 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; un-insulated; 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; un-insulated; electro-tin plated; silver-colored



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



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



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 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			
			
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		
1.1.6.3 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.: 769-1610 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	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; 13-pole; gray



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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

1.1.10 Tool

1.1.10.1 Operating tool



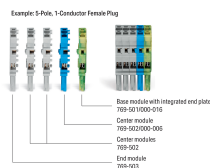
Operating tool



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

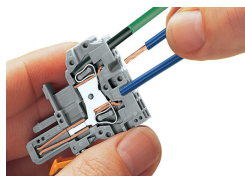
Installation Notes

Installation



Female plugs for self-assembly

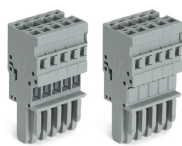
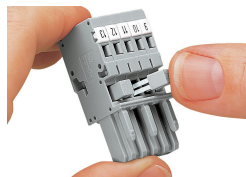
Conductor termination



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 1-conductor female plugs via miniature adjacent jumpers.

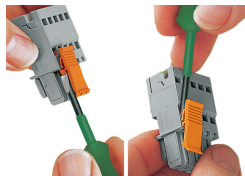
Jumper cover for 1-conductor female plugs

Coding



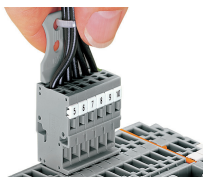
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

Locking system



Locking/releasing a lever.

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.