



Color: ■ gray

Female connector, 769 Series, 45 ° conductor exit to connection direction

This female connector (item number 769-110/022-000) is designed for seamless electrical installations. 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. Conductors can only be connected to this female connector if their strip length is between 8 mm and 9 mm. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a dependable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are 50 x 37.1 x 26.5 mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.08 mm² to 4 mm². Ten potentials can connect ten poles using the ten clamping points. The gray housing is made of polyamide (PA66) for insulation. This female connector/socket is operated with an operating tool. The front-entry wiring allows you to connect copper conductors.

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	10	Connection 1	
Total number of potentials	10	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



Connection 1

Conductor entry direction to mating di-  
rection 45 °

Physical data		
Width	50 mm / 1.969 inches	
Height	37.1 mm / 1.461 inches	
Depth	26.5 mm / 1.043 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="#">Information on material specifications can be found here</a>	
Color	gray	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Fire load	0.57 MJ	
Halogen-free	Yes	
Weight	24.8 g	

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

Commercial data		
Product Group	18 (X-COM-System)	
PU (SPU)	25 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4044918547673	
Customs tariff number	85366990990	



Product classification	
UNSPSC	39121409

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	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	IEC 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			

Approvals for marine applications		
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 769-110/022-000	



Documentation			
Additional Information		Bid Text	
Technical Section	pdf 2246.92 KB	769-110/022-000 19.02.2019	xml 3.17 KB
		769-110/022-000 04.10.2017	doc 26.00 KB












CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 769-110/022-000	EPLAN Data Portal 769-110/022-000
	WSCAD Universe 769-110/022-000
	ZUKEN Portal 769-110/022-000

1 Compatible Products

1.1 Optional Accessories




1.1.1 Ferrule

1.1.1.1 Ferrule

			
<b>Item No.: 216-301</b> Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	<b>Item No.: 216-302</b> Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	<b>Item No.: 216-201</b> Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white	<b>Item No.: 216-101</b> Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored
			
<b>Item No.: 216-202</b> Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	<b>Item No.: 216-102</b> Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored	<b>Item No.: 216-203</b> Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	<b>Item No.: 216-103</b> Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated
			
<b>Item No.: 216-204</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	<b>Item No.: 216-104</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored	<b>Item No.: 216-206</b> Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue	

1.1.2 Insulation stop

1.1.2.1 Insulation stop

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



1.1.3 Marking

1.1.3.1 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

1.1.4 Protective warning marker

1.1.4.1 Cover



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

1.1.5 Strain relief

1.1.5.1 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.: 769-414**  
Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 10- to 15-pole; gray

1.1.6 Test and measurement

1.1.6.1 Testing accessories



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

1.1.7 Tool

1.1.7.1 Operating tool



**Item No.: 769-434**  
Operating tool; made of insulating material; 1-way; loose; white

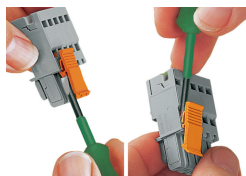
## Installation Notes

### Coding



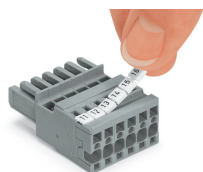
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

### Locking system



Locking/releasing a lever.

### Marking



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