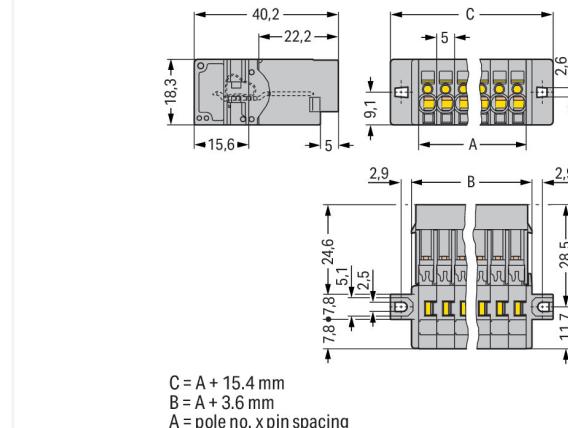




Color: ■ gray



Dimensions in mm

Male connector, 769 Series, gray

This male connector (item number 769-609/002-000) 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. 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 male connector if their strip length is between 8 mm and 9 mm. Featuring conductor terminals along with CAGE CLAMP®, this connector outperforms the competition. Our celebrated universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. Depending on the type of conductor, this male connector is suitable for conductor cross sections ranging from 0.08 mm² to 4 mm². Up to nine potentials / nine poles can be connected to this terminal strip using nine clamping points. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this male connector/plug. You can connect copper conductors via front-entry wiring.

Electrical data

Ratings per IEC/EN

Nominal voltage (III/3)	500 V
Rated impulse withstand voltage (III / 3)	6 kV
Rated current	32 A
Legend (ratings)	(III / 3) ≈ Overvoltage category III / Pollution degree 3

Connection data

Clamping units	9
Total number of potentials	9

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	4 mm ² / 12 AWG
Solid conductor	0.08 ... 4 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm ² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Pole number	9
Wiring direction	Front-entry wiring

Physical data

Pin spacing	5 mm / 0.197 inches
Width	60.4 mm / 2.378 inches
Height from the surface	18.3 mm / 0.72 inches
Depth	40.2 mm / 1.583 inches

Mechanical data

Variable coding	Yes
Direct ground contact to DIN-rail/drilled hole/housing	No
Mounting type	Mounting flange
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	No

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.574 MJ
Weight	27.9 g

Environmental requirements

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

Commercial data

Product Group	18 (X-COM-System)
PU (SPU)	25 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918521468
Customs tariff number	85366930000

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



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.	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 1059	E45172
UL Underwriters Laboratories Inc.	UL 1977	20151210-E45171

Declarations of conformity and manufacturer's declarations



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

Approvals for marine applications



Approval	Standard	Certificate Name
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance
769-609/002-000

Documentation

Bid Text

769-609/002-000	19.02.2019	xml 3.24 KB	
769-609/002-000	04.10.2017	doc 25.00 KB	

CAD/CAE-Data

CAD data

2D/3D Models 769-609/002-000	
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CAE data

EPLAN Data Portal 769-609/002-000	
WSCAD Universe 769-609/002-000	
ZUKEN Portal 769-609/002-000	

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 769-109

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; 4,00 mm²; gray

Item No.: 769-109/021-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; Lateral locking levers; 4,00 mm²; gray

Item No.: 769-129

2-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; 4,00 mm²; gray

1.2 Required Accessories

1.2.1 Installation

1.2.1.1 Mounting accessories



Item No.: 769-499

Fixing screw M2.5 x 16; and hexagon nut M2.5

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



[Item No.: 769-435](#)

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

1.3.2 Ferrule

1.3.2.1 Ferrule



[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



1.3.3 Insulation stop

1.3.3.1 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

1.3.4 Marking

1.3.4.1 Marker



[Item No.: 248-501](#)

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

1.3.4.2 Marking strip



[Item No.: 210-833](#)

Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

[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

1.3.5 Protective warning marker

1.3.5.1 Cover



[Item No.: 280-415](#)

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

1.3.6 Strain relief

1.3.6.1 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

1.3.7 Tool

1.3.7.1 Operating tool



[Item No.: 210-490](#)

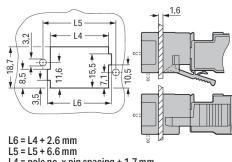
Operating tool

[Item No.: 769-434](#)

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

Installation Notes

Installation



Cutout

Headers with solder pins and mounting flanges

Conductor termination



Operating tool

Inserting a conductor via operating tool
(example shows a male connector).

Application



Male connector with CAGE CLAMP® and
mounting flanges
1-connector female plug, straight

Marking



Labeling a male connector with CAGE
CLAMP® connection via Mini-WSB Quick
Markers.