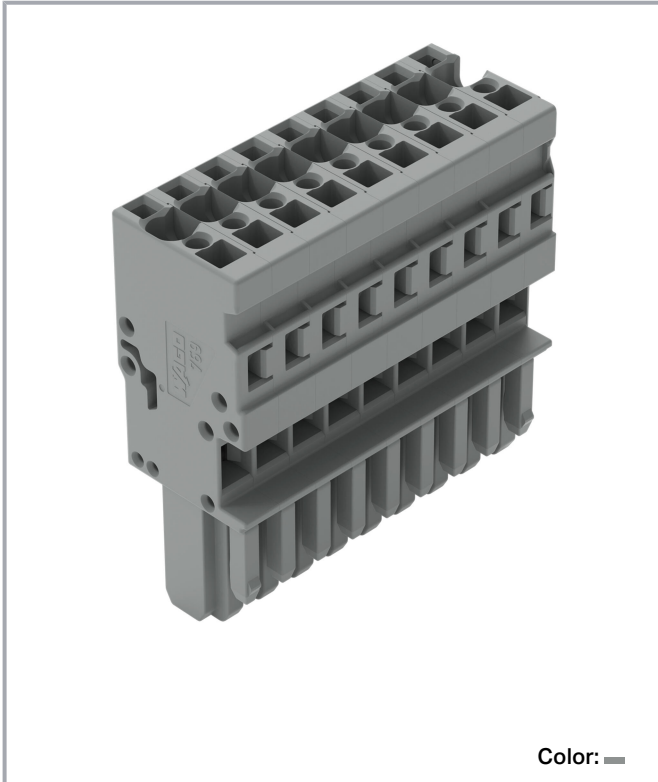


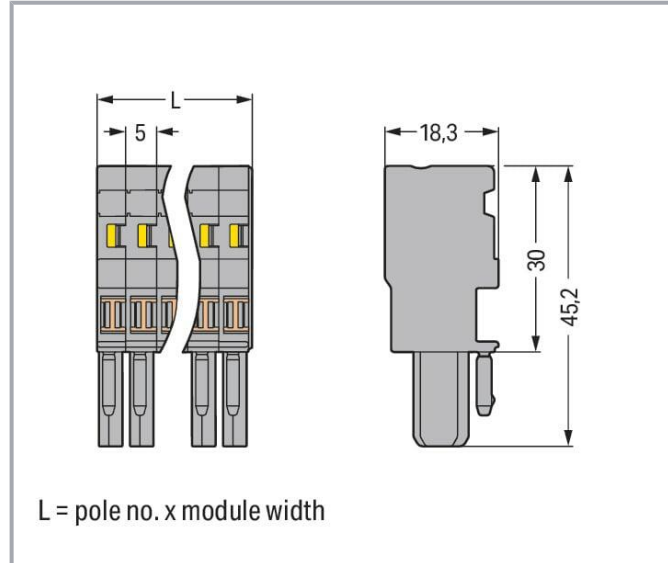
Data sheet | Item number: 769-109

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

www.wago.com/769-109



Color: ■



Data

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

Ratings per	IEC/EN 61984
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	32 A

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

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Legend (ratings)

(III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3

Connection data

Connection points	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

Width	45 mm / 1.772 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

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



Material data

Note (material data)

Information on material specifications can be found here

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.568 MJ
Halogen-free	Yes
Weight	28.3 g

Environmental requirements

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

Commercial data

eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
ECCN	NO DATA
PU (SPU)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918471671
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA	EN 60947	NTR NL-

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

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DEKRA Certification B.V.

7626

CCA DEKRA Certification B.V.	IEC 61984	NL-47799 /A1
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CCA
DEKRA Certification B.V.

EN 61984

2190419.02



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

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	20- HG1941090-

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



Counterpart



Item no.769-609

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

www.wago.com/769-609



Item no.769-609/002-000

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; clamping collar; 4,00 mm²; gray

www.wago.com/769-609/002-000



Item no.769-609/001-000

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; 4,00 mm²; gray

www.wago.com/769-609/001-000



Item no.769-609/005-000

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; Snap-in flange; 4,00 mm²; gray

www.wago.com/769-609/005-000



Item no.769-639/004-000

THT male header; 1.0 x 1.0 mm solder pin; straight; Feedthrough flange; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-639/004-000



Item no.769-609/006-000

1-conductor male connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; Snap-in flange; 4,00 mm²; gray

www.wago.com/769-609/006-000



Item no.769-639/003-000

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-639/003-000



Item no.769-639

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-639



Item no.769-669/003-000

THT male header; 1.0 x 1.0 mm solder pin; angled; clamping collar; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-669/003-000



Item no.769-639/007-000

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-639/007-000

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

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Item no.769-669

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-669



Item no.769-669/004-000

THT male header; 1.0 x 1.0 mm solder pin; angled; Feedthrough flange; Pin spacing 5 mm; 9-pole; gray

www.wago.com/769-669/004-000

Optional accessories

Locking levers

Locking system



Item no.: 769-430

Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; gray

www.wago.com/769-430



Item no.: 769-431

Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; orange

www.wago.com/769-431

Ferrule

Ferrule



Item no.: 216-101

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

www.wago.com/216-101



Item no.: 216-104

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

www.wago.com/216-104



Item no.: 216-102

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

www.wago.com/216-102



Item no.: 216-103

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

www.wago.com/216-103



Item no.: 216-203

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

www.wago.com/216-203



Item no.: 216-206

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

www.wago.com/216-206



Item no.: 216-202

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

www.wago.com/216-202



Item no.: 216-204

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

www.wago.com/216-204



Item no.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

www.wago.com/216-201



Item no.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

www.wago.com/216-301

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

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	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; light turquoise	www.wago.com/216-302
Marking accessories		
Marking strip		
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	www.wago.com/210-831
	Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	www.wago.com/210-834
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	www.wago.com/210-832
Label		
	Item no.: 210-805 Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white	www.wago.com/210-805
	Item no.: 210-805/000-002 Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow	www.wago.com/210-805/000-002
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	www.wago.com/2009-145
	Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/248-501
Cover		
Cover		
	Item no.: 769-436 Jumper cover; for 1-conductor female plugs; for 5 poles; gray	www.wago.com/769-436
Strain relief		
Strain relief		
	Item no.: 769-1609 Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 9-pole; gray	www.wago.com/769-1609
	Item no.: 769-413 Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 6- to 9-pole; gray	www.wago.com/769-413
Testing and measuring		
Testing accessories		

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



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

www.wago.com/210-136

Protective warning marker

Cover



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

www.wago.com/280-415

Tool

Operating tool



Item no.: 210-490
Operating tool

www.wago.com/210-490



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

www.wago.com/769-434

Insulation stop

Insulation stop



Item no.: 769-470
Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white

www.wago.com/769-470



Item no.: 769-471
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

www.wago.com/769-471



Item no.: 769-472
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

www.wago.com/769-472

Jumpers

Jumper



Item no.: 769-402
Jumper; insulated; gray

www.wago.com/769-402

Downloads

Documentation

Bid Text

769-109 X81 - Datei	2019 Feb 19	xml 3.3 kB	Download
769-109 doc - Datei	2017 Oct 4	doc 25.6 kB	Download

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



Additional Information

pdf
2.3 MB Download

CAD/CAE-Data

CAD data

2D/3D Models 769-109 URL Download

CAE data

WSCAD Universe 769-109 URL Download

ZUKEN Portal 769-109 URL Download

EPLAN Data Portal 769-109 URL Download

Asset Administration Shell

Asset Administration Shell 769-109 URL Download

Environmental Product Compliance

Compliance Search

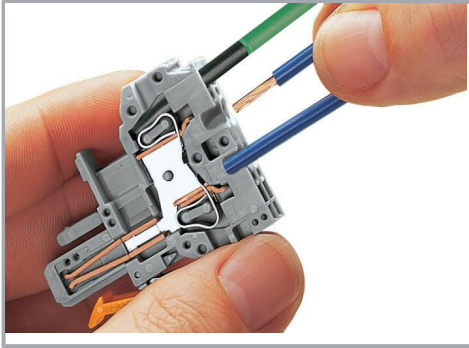
Environmental Product Compliance 769-109 URL Download

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

Installation Notes

Conductor termination

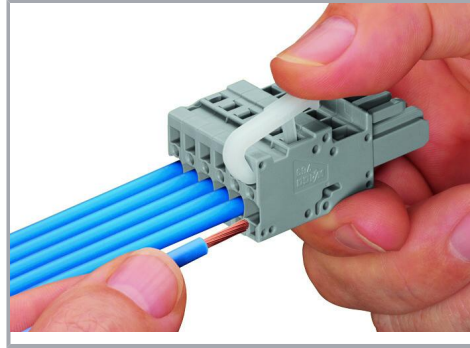
Subject to changes. Please also observe the further product documentation!



CAGE CLAMP® connection

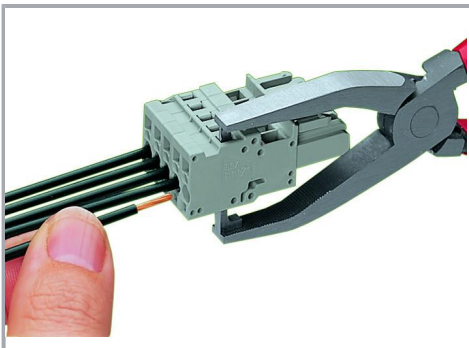
Female plug: Inserting/removing a conductor via operating tool.

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).



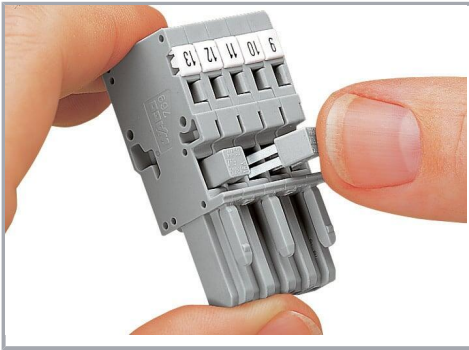
Operating tool

Inserting a conductor – side-entry wiring (example shows a female plug).

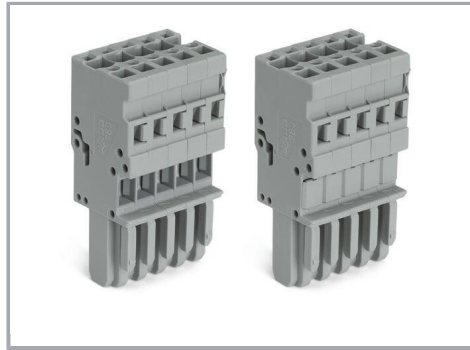
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.

Commoning

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



Commoning 1-conductor female plugs via miniature adjacent jumpers.



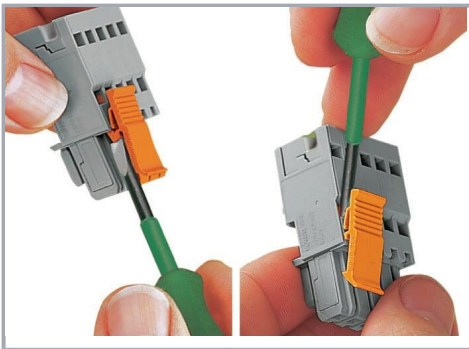
Jumper cover for 1-conductor female plugs

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.

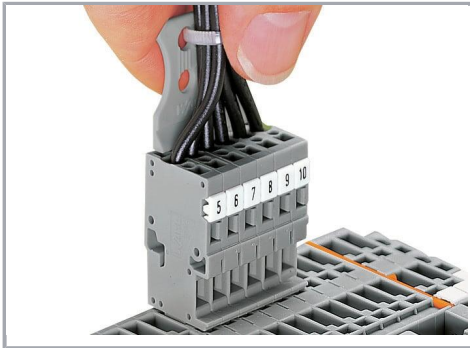
Locking system



Locking/releasing a lever.

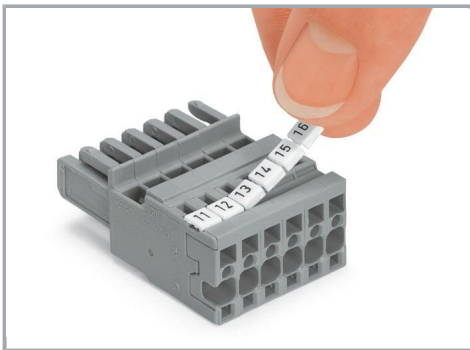
Strain relief

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



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.

Product family

X-COM

[Show all products from the family](#)

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