

**Data sheet | Item number: 769-612**

1-conductor male connector; CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing 5 mm; 12-pole; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-612](http://www.wago.com/769-612)



**Data**

**Electrical data**

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

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### Ratings per IEC/EN

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

### Connection data

Connection points	12
Total number of potentials	12

### Connection 1

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

### Physical data

Pin spacing	5 mm / 0.197 inches
Width	63.6 mm / 2.504 inches
Height	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	Flying leads
Anti-rotation protection	Yes

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
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Subject to changes. Please also observe the further product documentation!



Connector (connection type)	for conductor
Mismating protection	No
Plugging without loss of pin spacing	No

## 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	0.767 MJ
Weight	35.2 g

## Environmental requirements

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

## Commercial data

Product Group	18 (X-COM-System)
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	25 pcs
Packaging type	box
Country of origin	PL
GTIN	4044918521710
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Certificate

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Logo	Approval	Additional Approval Text	name
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	2190419.02
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL-7626
	<b>CCA</b> DEKRA Certification B.V.	IEC 61984	NL-47799/A1
	<b>CSA</b> CSA Group	C22.2	1101144
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60947	2190419.01
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	E 45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

#### Declarations of conformity and manufacturer's declarations

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

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

#### Optional accessories

##### Tool

Operating tool			
<b>Item no.: 210-490</b> Operating tool			<a href="http://www.wago.com/210-490">www.wago.com/210-490</a>
<b>Item no.: 769-434</b> Operating tool; made of insulating material; 1-way; loose; white			<a href="http://www.wago.com/769-434">www.wago.com/769-434</a>

##### Ferrule

Ferrule			
<b>Item no.: 216-101</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored			<a href="http://www.wago.com/216-101">www.wago.com/216-101</a>

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



<b>Item no.: 216-104</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-104">www.wago.com/216-104</a>
<b>Item no.: 216-102</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-102">www.wago.com/216-102</a>
<b>Item no.: 216-103</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-103">www.wago.com/216-103</a>
<b>Item no.: 216-203</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-203">www.wago.com/216-203</a>
<b>Item no.: 216-206</b> Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; blue	<a href="http://www.wago.com/216-206">www.wago.com/216-206</a>
<b>Item no.: 216-202</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-202">www.wago.com/216-202</a>
<b>Item no.: 216-204</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<a href="http://www.wago.com/216-204">www.wago.com/216-204</a>
<b>Item no.: 216-201</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-201">www.wago.com/216-201</a>
<b>Coding</b>	
Coding	
<b>Item no.: 769-435</b> Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange	<a href="http://www.wago.com/769-435">www.wago.com/769-435</a>
<b>Strain relief</b>	
Strain relief	
<b>Item no.: 769-1612</b> Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 12-pole; gray	<a href="http://www.wago.com/769-1612">www.wago.com/769-1612</a>
<b>Item no.: 769-414</b> Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 10- to 15-pole; gray	<a href="http://www.wago.com/769-414">www.wago.com/769-414</a>
<b>Protective warning marker</b>	
Cover	
<b>Item no.: 280-415</b> Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	<a href="http://www.wago.com/280-415">www.wago.com/280-415</a>
<b>Insulation stop</b>	
Insulation stop	
<b>Item no.: 769-470</b> Insulation stop; 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st"); 5 pieces/strip; white	<a href="http://www.wago.com/769-470">www.wago.com/769-470</a>
<b>Item no.: 769-471</b> Insulation stop; 0.25 - 0.5 mm <sup>2</sup> ; 5 pieces/strip; light gray	<a href="http://www.wago.com/769-471">www.wago.com/769-471</a>
<b>Item no.: 769-472</b> Insulation stop; 0.75 - 1 mm <sup>2</sup> ; 5 pieces/strip; dark gray	<a href="http://www.wago.com/769-472">www.wago.com/769-472</a>

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



### Marking accessories

Marking strip		
<b>Item no.: 210-831</b>	Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
<b>Item no.: 210-833</b>	Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-833">www.wago.com/210-833</a>
<b>Item no.: 210-834</b>	Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-834">www.wago.com/210-834</a>
<b>Item no.: 210-832</b>	Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>
Marker		
<b>Item no.: 248-501</b>	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>

### Downloads

#### Documentation

##### Bid Text

769-612 X81 - Datei	2019 年2月19日	xml 3.2 kB	Download
769-612 doc - Datei	2017 年10月4日	doc 25.1 kB	Download

##### Additional Information

		pdf 2.3 MB	Download
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### CAD/CAE-Data

#### CAD data

2D/3D Models 769-612		URL	Download
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#### CAE data

EPLAN Data Portal 769-612		URL	Download
WSCAD Universe 769-612		URL	Download
ZUKEN Portal 769-612		URL	Download

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 769-612

URL

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## Installation Notes

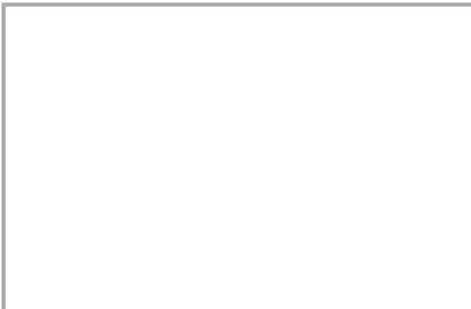
### Conductor termination



### Operating tool

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

### Application



Male connector with CAGE CLAMP®  
connection

1-conductor female plug, straight

### Marking

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



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

## Product family

**X-COM**

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