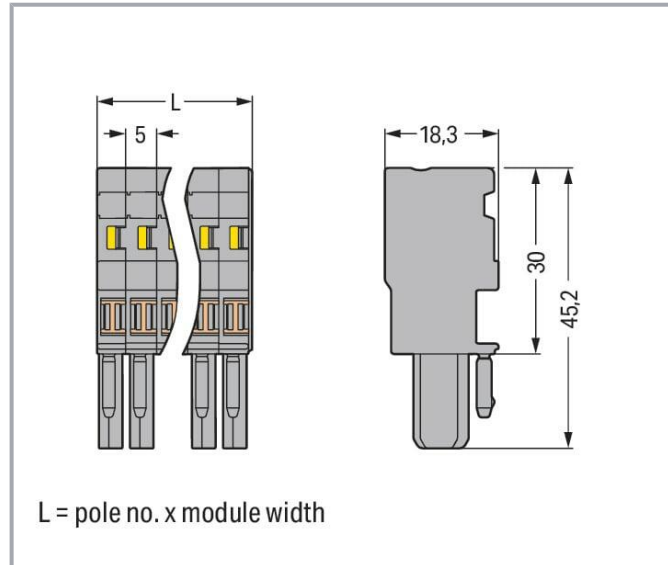
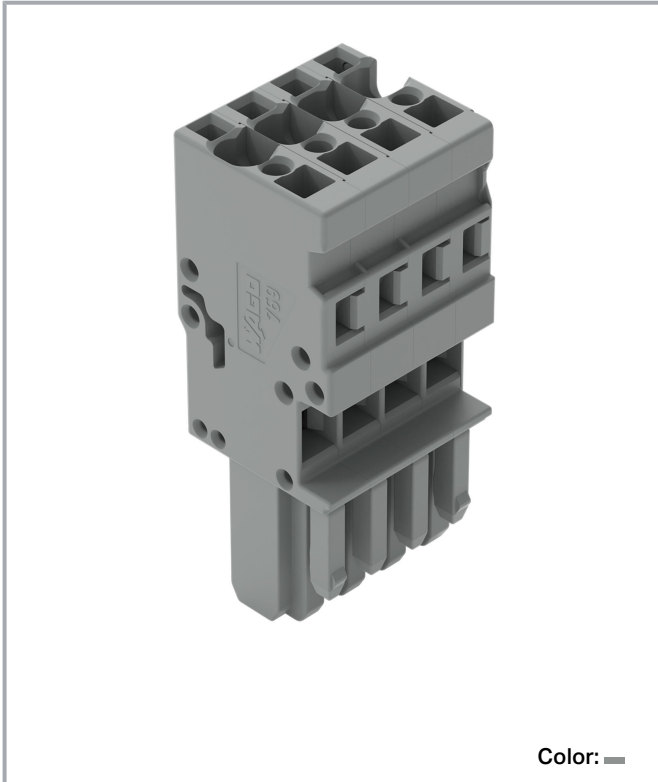


## Data sheet | Item number: 769-104

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

[www.wago.com/769-104](http://www.wago.com/769-104)



### 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	4
Total number of potentials	4

## 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	4
Wiring direction	Front-entry wiring

## Physical data

Width	20 mm / 0.787 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	0.263 MJ
Halogen-free	Yes
Weight	12.6 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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918471442
Customs tariff number	85366990990

## Environmental Product Compliance

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

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA	IEC 61984	NL-47799



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

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	DEKRA Certification B.V.		/A1
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626
	CCA DEKRA Certification B.V.	EN 61984	2190419.02
	CSA DEKRA Certification B.V.	C22.2 No. 158	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-PDA

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



**DNV GL**

Det Norske Veritas, Germanischer Lloyd

TAE00001V2

## Counterpart



**Item no. 769-164/769-313**

2-pin terminal block for pluggable modules; 8-pole; with 2 jumper positions; with orange separator plate; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/769-164/769-313](http://www.wago.com/769-164/769-313)



**Item no. 769-184/769-314**

1-conductor/1-pin terminal block for pluggable modules; 8-pole; with 2 jumper positions; with orange separator plate; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-184/769-314](http://www.wago.com/769-184/769-314)

## 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](http://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](http://www.wago.com/769-431)

### Cover

Cover



**Item no.: 769-436**

Jumper cover; for 1-conductor female plugs; for 5 poles; gray

[www.wago.com/769-436](http://www.wago.com/769-436)

### Ferrule

Ferrule

1

**Item no.: 216-101**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-101](http://www.wago.com/216-101)

1

**Item no.: 216-104**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-104](http://www.wago.com/216-104)

1

**Item no.: 216-102**

[www.wago.com/216-102](http://www.wago.com/216-102)

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

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Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

	<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>Item no.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-301">www.wago.com/216-301</a>
	<b>Item no.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<a href="http://www.wago.com/216-302">www.wago.com/216-302</a>




#### Jumpers

Jumper



	<b>Item no.: 769-402</b> Jumper; insulated; gray	<a href="http://www.wago.com/769-402">www.wago.com/769-402</a>
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#### 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.: 210-834</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>


Label

	<b>Item no.: 210-805</b> Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white	<a href="http://www.wago.com/210-805">www.wago.com/210-805</a>
	<b>Item no.: 210-805/000-002</b> Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow	<a href="http://www.wago.com/210-805/000-002">www.wago.com/210-805/000-002</a>


Marker


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

	<p><b>Item no.: 2009-145</b> Mini-USB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a></p>
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	<p><b>Item no.: 248-501</b> Mini-USB 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></p>
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**Strain relief**


Strain relief	
	<p><b>Item no.: 769-1604</b> Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 4-pole; gray <a href="http://www.wago.com/769-1604">www.wago.com/769-1604</a></p>


	<p><b>Item no.: 769-412</b> Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 4- to 5-pole; gray <a href="http://www.wago.com/769-412">www.wago.com/769-412</a></p>
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**Protective warning marker**

Cover	
	<p><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></p>

**Insulation stop**

Insulation stop	
	<p><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></p>

	<p><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></p>
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	<p><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></p>
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**Testing and measuring**

Testing accessories	
	<p><b>Item no.: 210-136</b> Test plug; 2 mm Ø; with 500 mm cable; red <a href="http://www.wago.com/210-136">www.wago.com/210-136</a></p>

**Tool**

Operating tool	
	<p><b>Item no.: 210-490</b> Operating tool <a href="http://www.wago.com/210-490">www.wago.com/210-490</a></p>

	<p><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></p>
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Subject to changes. Please also observe the further product documentation!



## Downloads

### Documentation

#### Bid Text

769-104 X81 - Datei	19 Feb 2019	xml 3.3 kB	Download
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769-104 doc - Datei	4 Oct 2017	doc 25.6 kB	Download
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#### Additional Information

		pdf 2.2 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 769-104		URL	Download
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### CAE data

ZUKEN Portal 769-104		URL	Download
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EPLAN Data Portal 769-104		URL	Download
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WSCAD Universe 769-104		URL	Download
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## Environmental Product Compliance

### Compliance Search

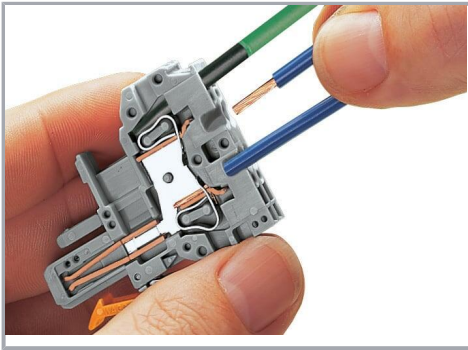
Environmental Product Compliance 769-104 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 4-pole; coding finger; 4,00 mm²; gray		URL	Download
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## Installation Notes

### Conductor termination

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



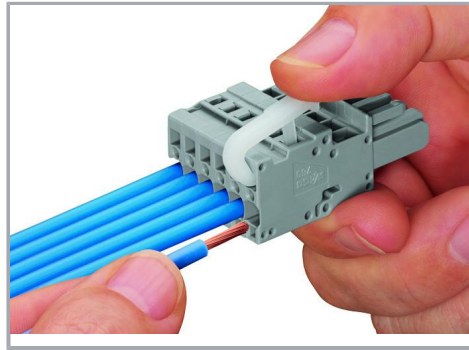


#### CAGE CLAMP® connection

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

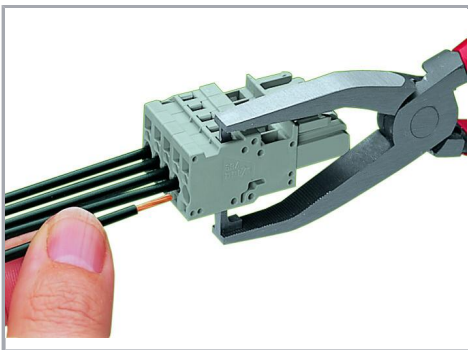
Operation 90° to conductor is also possible.

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).



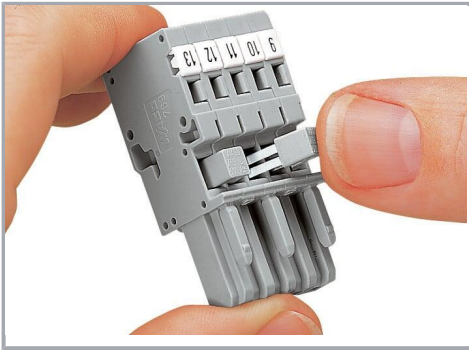
#### Operating tool

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

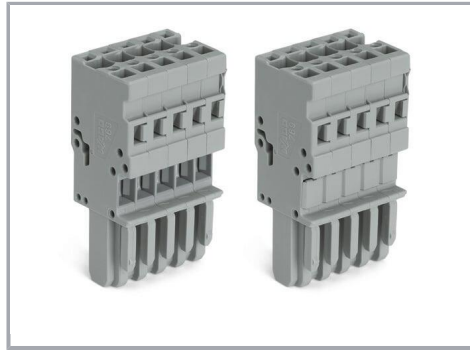
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.

#### Commoning

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



Commoning 1-conductor female plugs via miniature adjacent jumpers.



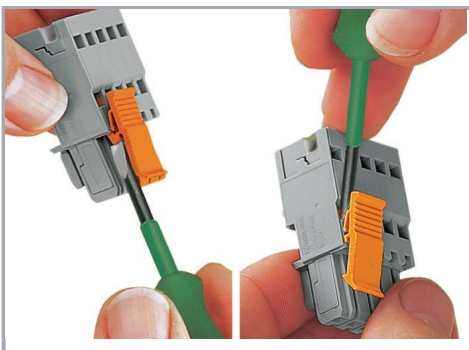
Jumper cover for 1-conductor female plugs

### 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.

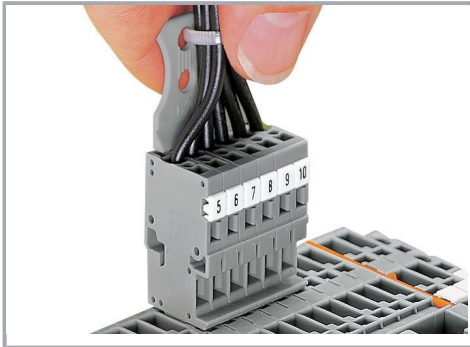
### Locking system



Locking/releasing a lever.

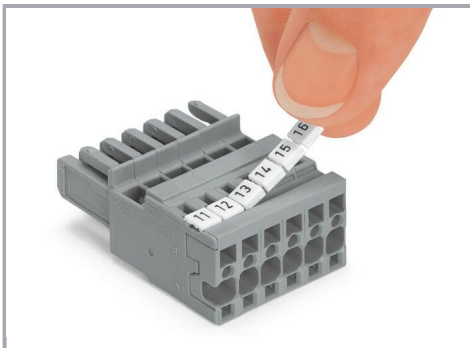
Subject to changes. Please also observe the further product documentation!

### 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.

### Product family

**X-COM**

[Show all products from the family](#)

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