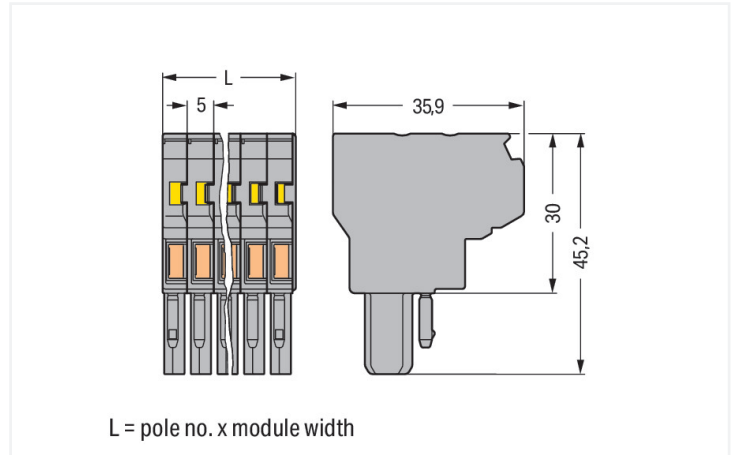


## Data Sheet | Item Number: 769-121

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

<https://www.wago.com/769-121>



Color: ■ gray

Dimensions in mm

Female connector, 769 Series, CAGE CLAMP®

This female connector (item number 769-121) is designed for fault-free electrical installations. Conductors should only be connected to this female connector if their strip length is between 8 and 9 mm. Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors to create the perfect solution. Variable wiring systems make pre-assembly easy, which leads to considerable time and cost savings in production, installation, operation, and maintenance. This product features conductor terminals and utilizes CAGE CLAMP®. Our trusted universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. Dimensions: (5 x 45.2 x 35.9) mm (width x height x depth). Depending on the conductor type, this female connector is designed for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 4 mm<sup>2</sup>.

This female connector/socket is operated with an operating tool.

### Notes

Safety Information

According to EN 61984, pluggable connectors without current interrupting capacity must not be mated or unmated when live or under load.

Safety information 2

Staggered jumpers cannot be installed in terminal blocks when using 2-conductor female plugs.

### Electrical data

Rated per	IEC/EN 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated impulse withstand voltage	6 kV	-	-
Rated current	32 A	-	-

### General information

Wiring direction Front-entry wiring

## Connection Data

Clamping units	2
Total number of potentials	1

## 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	1
Wiring direction	Front-entry wiring

## Physical data

Width	5 mm / 0.197 inches
Height	45.2 mm / 1.78 inches
Depth	35.9 mm / 1.413 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	0.086 MJ
Halogen-free	Yes
Weight	5.4 g

## Environmental requirements

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

### Commercial data

Product Group	18 (X-COM-System)
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918473460
Customs tariff number	85366990990

### 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 10.0	EC001284
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### 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	E 45171

#### 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
ABS American Bureau of Shipping	EN 60947	24-0152298-PDA
BV Bureau Veritas S.A.	EN 60947	07436/G0 BV
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23

**Downloads**

**Environmental Product Compliance**

Compliance Search	
Environmental Product Compliance 769-121	↓

**Documentation**

Bid Text			
769-121	19.02.2019	xml 3.21 KB	↓
769-121	04.10.2017	doc 25.50 KB	↓

**CAD/CAE-Data**

CAD data	
2D/3D Models 769-121	↓

CAE data	
EPLAN Data Portal 769-121	↓
WSCAD Universe 769-121	↓
ZUKEN Portal 769-121	↓

**1 Compatible Products**

**1.1 System counterpart**

**1.1.1 Component terminal block with diode**

<p><b>Item No.: 769-218/281-410</b></p> <p>1-conductor/1-pin component carrier terminal block; with 2 jumper positions; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray</p>	<p><b>Item No.: 769-218/281-411</b></p> <p>1-conductor/1-pin component carrier terminal block; with 2 jumper positions; with diode 1N4007; anode, right side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray</p>	<p><b>Item No.: 769-238/281-410</b></p> <p>1-conductor/1-pin component carrier terminal block; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray</p>	<p><b>Item No.: 769-238/281-411</b></p> <p>1-conductor/1-pin component carrier terminal block; with diode 1N4007; anode, right side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray</p>
<p><b>Item No.: 769-208/281-410</b></p> <p>2-pin component carrier block; with 2 jumper positions; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; gray</p>	<p><b>Item No.: 769-208/281-411</b></p> <p>2-pin component carrier block; with 2 jumper positions; with diode 1N4007; anode, right side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; gray</p>	<p><b>Item No.: 769-228/281-410</b></p> <p>2-pin component carrier block; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; gray</p>	<p><b>Item No.: 769-228/281-411</b></p> <p>2-pin component carrier block; with diode 1N4007; anode, right side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; gray</p>

1.1.2 Component terminal block with LED



**Item No.: 769-239/281-413**  
 1-conductor/1-pin component carrier terminal block; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray



**Item No.: 769-239/281-434**  
 1-conductor/1-pin component carrier terminal block; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray



**Item No.: 769-219/281-413**  
 1-conductor/1-pin component carrier terminal block; with 2 jumper positions; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray



**Item No.: 769-219/281-434**  
 1-conductor/1-pin component carrier terminal block; with 2 jumper positions; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; gray



**Item No.: 769-229/281-413**  
 2-pin component carrier block; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-229/281-434**  
 2-pin component carrier block; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-209/281-413**  
 2-pin component carrier block; with 2 jumper positions; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-209/281-434**  
 2-pin component carrier block; with 2 jumper positions; LED (red); 24 VDC; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.3 Disconnect terminal block



**Item No.: 769-232**  
 1-conductor/1-pin disconnect carrier terminal block; 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



**Item No.: 769-212**  
 1-conductor/1-pin disconnect carrier terminal block; with 2 jumper positions; 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



**Item No.: 769-233**  
 1-conductor/1-pin disconnect carrier terminal block; with shield contact; 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



**Item No.: 769-213**  
 1-conductor/1-pin disconnect carrier terminal block; with shield contact; with 2 jumper positions; 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



**Item No.: 769-222**  
 2-pin disconnect carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-202**  
 2-pin disconnect carrier terminal block; with 2 jumper positions; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-223**  
 2-pin disconnect carrier terminal block; with shield contact; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-203**  
 2-pin disconnect carrier terminal block; with shield contact; with 2 jumper positions; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.4 Shield termination



**Item No.: 769-231**  
 1-conductor/1-pin carrier terminal block; with shield contact; 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



**Item No.: 769-233**  
 1-conductor/1-pin disconnect carrier terminal block; with shield contact; 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



**Item No.: 769-213**  
 1-conductor/1-pin disconnect carrier terminal block; with shield contact; with 2 jumper positions; 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



**Item No.: 769-211**  
 2-conductor/2-pin carrier terminal block; with shield contact; 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



**Item No.: 769-221**  
 2-pin carrier terminal block; with shield contact; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-223**  
 2-pin disconnect carrier terminal block; with shield contact; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-203**  
 2-pin disconnect carrier terminal block; with shield contact; with 2 jumper positions; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-201**  
 4-pin carrier terminal block; with shield contact; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.5 Through terminal block



**Item No.: 769-176/000-006**  
 1-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; blue



**Item No.: 769-176**  
 1-conductor/1-pin carrier terminal block; 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



**Item No.: 769-176/000-012**  
 1-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; orange



**Item No.: 769-231**  
 1-conductor/1-pin carrier terminal block; with shield contact; 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



**Item No.: 769-214**  
 1-conductor/1-pin disconnect carrier terminal block; with 3 jumper positions; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; 4,00 mm<sup>2</sup>; gray



**Item No.: 769-251/000-006**  
 2-conductor/1-pin carrier terminal block; 4 mm<sup>2</sup>; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 4,00 mm<sup>2</sup>; blue



**Item No.: 769-251**  
 2-conductor/1-pin carrier terminal block; 4 mm<sup>2</sup>; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 4,00 mm<sup>2</sup>; gray



**Item No.: 769-171/000-006**  
 2-conductor/2-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; blue

1.1.5 Through terminal block



**Item No.: 769-171**  
2-conductor/2-pin carrier terminal block; 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



**Item No.: 769-211**  
2-conductor/2-pin carrier terminal block; with shield contact; 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



**Item No.: 769-156/000-006**  
2-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; blue



**Item No.: 769-156**  
2-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-221**  
2-pin carrier terminal block; with shield contact; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-151/000-004**  
4-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; black



**Item No.: 769-151**  
4-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 769-151/000-005**  
4-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; red



**Item No.: 769-151/000-002**  
4-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; yellow



**Item No.: 769-201**  
4-pin carrier terminal block; with shield contact; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



**Item No.: 216-301**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-302**  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-201**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-202**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-203**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; un-insulated; electro-tin plated



**Item No.: 216-204**  
Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-insulated; electro-tin plated; black



**Item No.: 216-104**  
Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-206**  
Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; blue

1.2.2 Insulation stop

1.2.2.1 Insulation stop



**Item No.: 769-470**  
Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white



**Item No.: 769-471**  
Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray



**Item No.: 769-472**  
Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray

### 1.2.3 Jumper

#### 1.2.3.1 Jumper



**Item No.: 280-402**  
Jumper; insulated; gray



**Item No.: 780-452**  
Staggered jumper; from 1 to 2; insulated; gray



**Item No.: 780-453**  
Staggered jumper; from 1 to 3; insulated; gray



**Item No.: 780-454**  
Staggered jumper; from 1 to 4; insulated; gray



**Item No.: 780-455**  
Staggered jumper; from 1 to 5; insulated; gray



**Item No.: 780-456**  
Staggered jumper; from 1 to 6; insulated; gray



**Item No.: 780-457**  
Staggered jumper; from 1 to 7; insulated; gray



**Item No.: 780-458**  
Staggered jumper; from 1 to 8; insulated; gray

### 1.2.4 Locking system

#### 1.2.4.1 Locking system



**Item No.: 769-428**  
Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 1-pole; gray



**Item No.: 769-429**  
Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 1-pole; orange

### 1.2.5 Marking

#### 1.2.5.1 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

### 1.2.6 Protective warning marker

#### 1.2.6.1 Cover



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

### 1.2.7 Strain relief

#### 1.2.7.1 Strain relief



**Item No.: 769-410**  
Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 1-pole; gray

## 1.2.8 Test and measurement

### 1.2.8.1 Testing accessories



**Item No.: 210-136**

Test plug; 2 mm Ø; with 500 mm cable; red

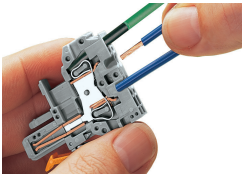
## Installation Notes



### 2-conductor female plugs

- Common signals from one subassembly to the other (bus structure)
- Can be used as a T-wire branch tap connection (e.g. for lighting wiring)
- Enable a higher number of connection possibilities

## Conductor termination

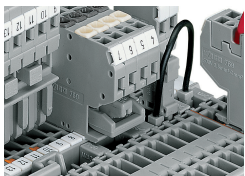


### CAGE CLAMP® connection

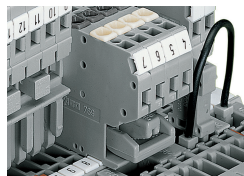
Female plug: Inserting/removing a conductor via operating tool.  
Operation 90° to conductor is also possible.

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

## Commoning



Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.



### Commoning options of female plugs:

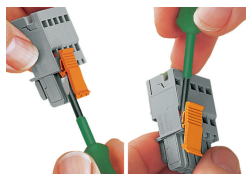
- After removal, commoned potentials still remain commoned
- Use of plug-in jumpers instead of additional wired jumpers
- Can be used as a "hardware" key for safety lockout
- Can also be used as a commoning jumper for sensor circuits or machine programming

## Coding



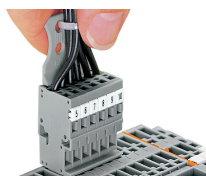
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

## Locking system



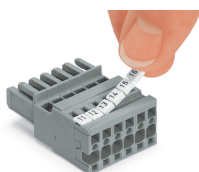
Locking/releasing a lever.

## Strain relief



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.