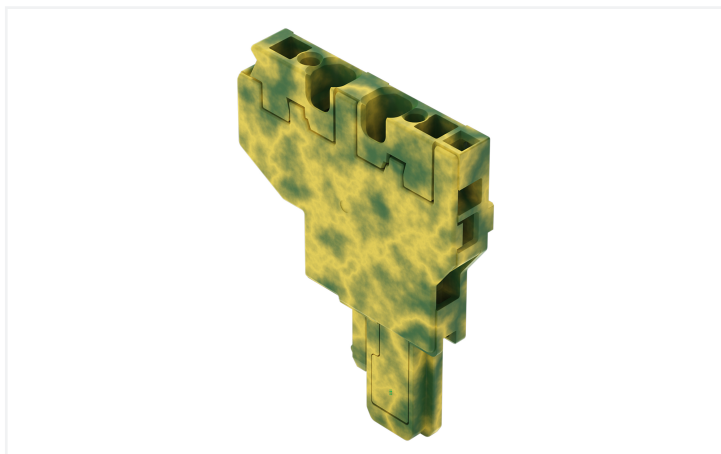


## Data Sheet | Item Number: 769-503/000-016

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

<https://www.wago.com/769-503/000-016>



Color: ■ green-yellow

### Customizing Modular Female Plugs

WAGO's modular X-COM®-SYSTEM female plugs can be customized for applications that require a varying number of poles (e.g., when designing prototypes).

### Modules and Pole Numbers

A customized X-COM®-SYSTEM female plug consists of:

- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

### Intended Use

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

### Assembly

The appropriate mounting tool shall be used to ensure that the individual modules are properly attached to each other without damaging the locking latches.

## 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 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	-
Rated surge voltage	-	-	-
Rated current	-	-	-

### Connection data

Connection points	1
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	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

### Material data

Note (material data)	<a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a>
Color	green-yellow
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.049 MJ
Halogen-free	Yes
Weight	3 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)	250 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4017332591430
Customs tariff number	85366990990

### 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.	EN 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 1977	E 45171
UR Underwriters Laboratories Inc.	UL 1059	E45172

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

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

## Downloads

### Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 769-503/000-016	↓

## Documentation

Additional Information		
Technical Section	pdf 2240.62 KB	↓

Bid Text			
769-503/000-016	19.02.2019	xml 3.08 KB	↓
769-503/000-016	04.10.2017	doc 25.50 KB	↓

## CAD/CAE-Data

CAD data	
2D/3D Models 769-503/000-016	↓

CAE data	
EPLAN Data Portal 769-503/000-016	↓
WSCAD Universe 769-503/000-016	↓
ZUKEN Portal 769-503/000-016	↓

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Cover

##### 1.1.1.1 Cover



**Item No.: 769-436**  
 Jumper cover; for 1-conductor female plugs; for 5 poles; gray

### 1.1.2 Ferrule

#### 1.1.2.1 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; 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

1.1.2.1 Ferrule



**Item No.: 216-204**  
 Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; 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

1.1.3 Insulation stop

1.1.3.1 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

1.1.4 Jumper

1.1.4.1 Jumper



**Item No.: 769-402**  
 Jumper; insulated; gray

1.1.5 Locking system

1.1.5.1 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

**Item No.: 769-430**  
 Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; gray

**Item No.: 769-431**  
 Locking lever; for female connectors; 1 part; Pin spacing 5 mm; 2-pole; orange

1.1.6 Marking

1.1.6.1 Label



**Item No.: 210-805**  
 Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white

**Item No.: 210-805/000-002**  
 Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow

1.1.6.2 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

1.1.6.3 Marking strip



**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

1.1.7 Protective warning marker

1.1.7.1 Cover



**Item No.: 280-415**

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

1.1.8 Strain relief

1.1.8.1 Strain relief



**Item No.: 769-1610**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 10-pole; gray



**Item No.: 769-1611**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 11-pole; gray



**Item No.: 769-1612**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 12-pole; gray



**Item No.: 769-1613**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 13-pole; gray



**Item No.: 769-1614**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 14-pole; gray



**Item No.: 769-1615**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 15-pole; gray



**Item No.: 769-1602**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 2-pole; gray



**Item No.: 769-1603**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 3-pole; gray



**Item No.: 769-1604**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 4-pole; gray



**Item No.: 769-1605**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 5-pole; gray



**Item No.: 769-1606**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 6-pole; gray



**Item No.: 769-1607**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 7-pole; gray



**Item No.: 769-1608**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 8-pole; gray



**Item No.: 769-1609**

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 9-pole; gray



**Item No.: 769-414**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 10- to 15-pole; gray



**Item No.: 769-410**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 1-pole; gray



**Item No.: 769-411**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 2- to 3-pole; gray



**Item No.: 769-412**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 4- to 5-pole; gray



**Item No.: 769-413**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 5 mm; 6- to 9-pole; gray

### 1.1.9 Test and measurement

#### 1.1.9.1 Testing accessories



Item No.: 210-136

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

### 1.1.10 Tool

#### 1.1.10.1 Operating tool



Item No.: 210-490

Operating tool



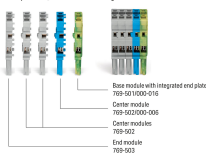
Item No.: 769-434

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

## Installation Notes

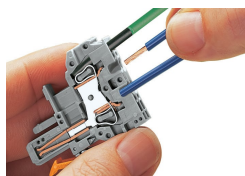
### Installation

Example: 5-Pole, 1-Conductor Female Plug



Female plugs for self-assembly

## Conductor termination



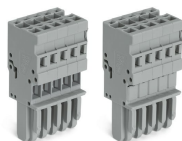
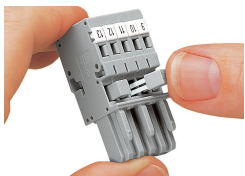
### CAGE CLAMP® connection

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 1-conductor female plugs via miniature adjacent jumpers.

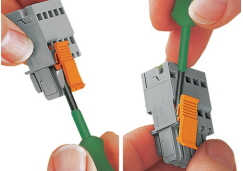
Jumper cover for 1-conductor female plugs

## Coding



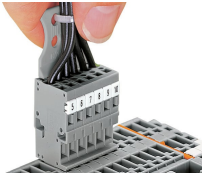
Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

## Locking system



Locking/releasing a lever.

## Strain relief



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.