



Color: ■ gray

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	500 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	32 A	-	-



Connection data			
Connection points	1	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
		Actuation type	Operating tool
		Connectable conductor materials	Copper
		Nominal cross-section	4 mm² / 12 AWG
		Solid conductor	0.08 ... 4 mm² / 28 ... 12 AWG
		Fine-stranded conductor	0.08 ... 4 mm² / 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	37.1 mm / 1.461 inches
Depth	26.5 mm / 1.043 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)	Information on material specifications can be found here
Color	gray
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.056 MJ
Halogen-free	Yes
Weight	2.5 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	4017332619714
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 61984	2190419.02	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
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			

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 769-513	



Documentation			
Additional Information		Bid Text	
Technical Section	pdf 2240.62 KB	769-513	19.02.2019 xml 3.05 KB
		769-513	04.10.2017 doc 25.50 KB

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 769-513	EPLAN Data Portal 769-513
	WSCAD Universe 769-513
	ZUKEN Portal 769-513

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

 Item No.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	 Item No.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	 Item No.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	 Item No.: 216-101 Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored
 Item No.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored	 Item No.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	 Item No.: 216-103 Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated
 Item No.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	 Item No.: 216-104 Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored	 Item No.: 216-206 Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue	

1.1.2 Insulation stop

1.1.2.1 Insulation stop

 Item No.: 769-470 Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white	 Item No.: 769-471 Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray	 Item No.: 769-472 Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray
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1.1.3 Marking			
1.1.3.1 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	Item No.: 793-5501 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	Item No.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white
			
Item No.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white			
1.1.3.2 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		
1.1.4 Protective warning marker			
1.1.4.1 Cover			
			
Item No.: 280-415 Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow			
1.1.5 Strain relief			
1.1.5.1 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

1.1.5.1 Strain relief



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

1.1.6 Test and measurement

1.1.6.1 Testing accessories



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

1.1.7 Tool

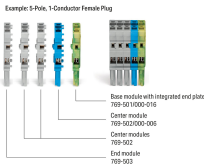
1.1.7.1 Operating tool



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

Installation Notes

Installation



Female plugs for self-assembly

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.

Marking



Labeling a female plug with CAGE CLAMP® connection via Mini-WSB Quick Markers.