Data sheet | Item number: 2022-181

End module for 1-conductor female connector; Push-in CAGE CLAMP[®]; 4 mm²; Pin spacing 5.2 mm; 1-pole; 4,00 mm²; gray

www.wago.com/2022-181



Item description

Customizing Modular Female Plugs

WAGO's modular X-COM[®]S-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®S-SYSTEM female plug consists of:

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- 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.

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)	690 V
Rated impulse voltage (III/3)	6 kV
Rated current	24 A
Current at conductor cross-section (max.) mm ²	32 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL 1059

Approvals per	UL 1059
Rated voltage UL (Use Group B)	600 V
Rated current UL (Use Group B)	20 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A

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Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	20 A

Connection data

Connection points	1
Total number of potentials	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm ²
Solid conductor	0.25 4 mm² / 22 12 AWG
Solid conductor; push-in termination	0.75 4 mm² / 18 12 AWG
Fine-stranded conductor	0.25 4 mm² / 22 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 2.5 mm² / 22 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 2.5 mm² / 18 14 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	10 12 mm / 0.39 0.47 inches
Pole number	1
Wiring direction	Front-entry wiring

Physical data

Width	5.2 mm / 0.205 inches
Height	40.5 mm / 1.594 inches
Depth	22.4 mm / 0.882 inches

Mechanical Data

Variable coding	Yes
Marking level	Side marking
Anti-rotation protection	Yes

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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
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.053 MJ
Weight	3.2 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)	250 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821243403
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

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Certificate

Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
SP	CSA DEKRA Certification B.V.	C22.2 No. 158	2437422
KEUR	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 101560
۶J	UL Underwriters Laboratories Inc.	UL 1059	E45172
Declaration	s of conformity and manufacturer's declarations		

Logo	Approval	Additional Approval Text	name
Ce	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity	-	-

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Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name	
ABS:	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA	
BUREAU VERITAS	BV Bureau Veritas S.A.	EN 60947	38586/B0 BV	
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2	
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ptional ac	cessories		
sulation sto			
Insulation st			
00000	Item no.: 2002-171 Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray		www.wago.com/2002-171
20000	Item no.: 2002-172 Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray		www.wago.com/2002-172
train relief			
Strain relief	plate		
::	Item no.: 734-326 Strain relief plate; for female and male connectors; 35 mm wide	»; 1 part; gray	www.wago.com/734-326
000	Item no.: 734-327 Strain relief plate; for female and male connectors; 6 mm wide;	1 part; gray	www.wago.com/734-327
200	Item no.: 734-328 Strain relief plate; for female and male connectors; 12.5 mm wid	de; 1 part; gray	www.wago.com/734-328
	Item no.: 734-329 Strain relief plate; for female and male connectors; 25 mm wide	»; 1 part; gray	www.wago.com/734-329
::::	Item no.: 734-430 Strain relief plate; for female and male connectors; 1 part; gray		www.wago.com/734-430
	Item no.: 734-431 Strain relief plate; for female and male connectors; 75 mm wide	»; 1 part; gray	www.wago.com/734-431
errule			
Ferrule			
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plat crimped; acc. to DIN 46228, Part 4/09.90; white	ted; electrolytic copper; gastight	www.wago.com/216-241
ubject to cha	anges. Please also observe the further product documentation!		
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Å	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242	
	Item no.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; www.wa acc. to DIN 46228, Part 4/09.90; red		
L.	Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-244	
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-263	
1	Item no.: 216-246 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-246	
1	Item no.: 216-266 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-266	
L	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-264	
L	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-284	
1	Item no.: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-286	
Å	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-262	
Locking leve	rs		
Locking sys	stem		
105	Item no.: 2022-141 Locking lever; gray	www.wago.com/2022-141	
- E	ltem no.: 2022-151 Locking lever; gray	www.wago.com/2022-151	
	Item no.: 2022-142 Locking lever; orange	www.wago.com/2022-142	
	Item no.: 2022-152 Locking lever; orange	www.wago.com/2022-152	
Marking acce			
Marking str	ip		

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	ltem no.: 2009-110		www.wago	com/2009-110	
		eel; not stretchable; plain; snap-on type; white			
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; p	olain; Self-adhesive; white	www.wago.com/210-831		
	Item no.: 210-833 Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white		www.wago.com/210-833		
	ltem no.: 210-834 Marking strips; on reel; 5 mm wide; pla	in; Self-adhesive; white	www.wago.o	com/210-834	
	ltem no.: 210-832 Marking strips; on reel; 3 mm wide; pla	0-832 ps; on reel; 3 mm wide; plain; Self-adhesive; white		www.wago.com/210-832	
Marker					
Ø	Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pi	eces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.	com/2009-115	
annan	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		www.wago.	com/793-550	
ool					
Operating t	lool				
Card Card Card Card Card Card Card Card	tem no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured		www.wago.o	com/210-720	
rotective wa	rning marker				
Cover					
	Item no.: 2002-115 Protective warning marker; for 5 termi	nal blocks; with high-voltage symbol, black; yellow	www.wago.o	com/2002-11	
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id Text					
022-181 ocx - Datei		2019 May 14	docx 16.5 kB	Download	
022-181		2019 Feb 19	xml	Download	
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Additional Information		
Technical Section	pdf	Download
Technical explanations	2.2 MB	
CAD/CAE-Data		
CAD data		
2D/3D Models 2022-181	URL	Download
CAE data		
WSCAD Universe 2022-181	URL	Download
ZUKEN Portal 2022-181	URL	Download
EPLAN Data Portal 2022-181	URL	Download
Environmental Product Compliance		
Compliance Search		
Environmental Product Compliance 2022, 191	וחו	Download

Environmental Product Compliance 2022-181	URL	Download
End module for 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin		
spacing 5.2 mm; 1-pole; 4,00 mm²; gray		

Installation Notes

Coding

 $\label{eq:subject} Subject \ to \ changes. \ Please \ also \ observe \ the \ further \ product \ documentation!$

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Insert coding pin into the corresponding slot and twist it off.

Coding a female plug: remove coding finger using a suitable tool.



Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

Locking system



Slide the locking lever into position.



Female plugs can be individually locked.

Product family

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X-COM S Show all products from the family

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