Start module for 1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 1-pole; with integrated end plate; 1,50 mm²; gray www.wago.com/2020-161



Color:

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).

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

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Modules and Pole Numbers

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

- One base module with an end plate
- Up to 14 end modules

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.

Safety information 2

Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

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	13.5 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	15 A

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Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	15 A

Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 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	1 mm²
Solid conductor	0.14 1.5 mm² / 24 16 AWG
Solid conductor; push-in termination	0.5 1.5 mm² / 20 16 AWG
Fine-stranded conductor	0.14 1.5 mm² / 24 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 0.75 mm² / 24 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 0.75 mm² / 20 18 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	9 11 mm / 0.35 0.43 inches
Pole number	1
Wiring direction	Front-entry wiring

Physical data

Width	3.5 mm / 0.138 inches
Height	40.5 mm / 1.594 inches
Depth	22.4 mm / 0.882 inches

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Mechanical Data

Variable coding	Yes
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	No

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	VO
Fire load	0.052 MJ
Weight	2.7 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	4050821245131

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Customs tariff number 85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617
	CSA DEKRA Certification B.V.	C22.2	2516073
	UL UL International Germany GmbH	UL 1059	E 45172

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
	BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

Optional accessories

Marking accessories

Marking strip

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	Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; 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
	Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	www.wago.com/210-834
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	www.wago.com/210-832
Marker		
	Item no.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	www.wago.com/2009-113
	Item no.: 793-3501 WMB marking card; as card; plain; snap-on type; white	www.wago.com/793-350
Ferrule		
Ferrule		
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	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; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
Protective w	arning marker	
Cover		
	Item no.: 2000-115 Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	www.wago.com/2000-118
Strain 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
	Item no.: 734-327 Strain relief plate; for female and male connectors; 6 mm wide; 1 part; gray	www.wago.com/734-327
	Item no.: 734-328 Strain relief plate; for female and male connectors; 12.5 mm wide; 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

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Operating tool			
Item no.	210-648	WWW.W2go.com/210.649	
Operatir	g tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short	www.wago.com/210-648	
Item no.	210-647		
Operatir	g tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-647	
Item no.	210-719		
Operatir	g tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719	
ocking levers			
Locking system			
Item no.	2022-141	www.wago.com/2022-141	
Locking	lever; gray	www.wago.com/2022-141	
Item no.	2022-151	/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	(0000 45)	
Locking	lever; orange	www.wago.com/2022-152	

Downloads

Documentation

Bid Text

2020-161 X81 - Datei	2019 年2月19日	xml 4.3 kB	Download
2020-161 docx - Datei	2018 年8月6日	docx 15.9 kB	Download
Additional Information		pdf 2.3 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 2020-161 URL Download

CAE data

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WSCAD Universe 2020-161	URL	Download
ZUKEN Portal 2020-161	URL	Download

Environmental Product Compliance

spacing 3.5 mm; 1-pole; with integrated end plate; 1,50 mm²; gray

Compliance Search

Environmental Product Compliance 2020-161

Start module for 1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin

Installation Notes

С	Coding						
Г							
l							

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

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

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

Product family

X-COM S-Mini Show all products from the family

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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