

**Data sheet | Item number: 2022-112**

1-conductor female connector; Push-in CAGE CLAMP®; 4 mm<sup>2</sup>; Pin spacing  
5.2 mm; 12-pole; 4,00 mm<sup>2</sup>; gray

[www.wago.com/2022-112](http://www.wago.com/2022-112)



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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## 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 <sup>2</sup>	32 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

### Ratings per UL

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

### 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	12
Total number of potentials	12

## Connection 1

Connection technology

Push-in CAGE CLAMP®

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Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm <sup>2</sup>
Solid conductor	0.25 ... 4 mm <sup>2</sup> / 22 ... 12 AWG
Solid conductor; push-in termination	0.75 ... 4 mm <sup>2</sup> / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm <sup>2</sup> / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm <sup>2</sup> / 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	12
Wiring direction	Front-entry wiring

### Physical data

Width	62.4 mm / 2.457 inches
Height	40.5 mm / 1.594 inches
Depth	22.4 mm / 0.882 inches
Module width	5.2 mm / 0.205 inches

### 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	Yes

### Material Data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I

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Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.643 MJ
Weight	40.6 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)	25 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821242833
Customs tariff number	85366990990

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CSA</b> DEKRA Certification B.V.	C22.2 No. 158	2437422
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71- 101560
	<b>UL</b> Underwriters Laboratories Inc.	UL 1059	E45172

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

Logo	Approval	Additional Approval Text	Certificate name

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<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
<b>ABS</b> American Bureau of Shipping		EN 60947	20- HG1941090- PDA
<b>BV</b> Bureau Veritas S.A.		EN 60947	38586/B0 BV
<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd		-	TAE00001V2
<b>LR</b> Lloyds Register		EN 60947	91/20112 (E9)

#### Optional accessories

##### Tool

Operating tool		
<b>Item no.: 210-720</b>		<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured		

##### Marking accessories

Marking strip		
<b>Item no.: 2009-110</b>		<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white		
<b>Item no.: 210-831</b>		<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white		
<b>Item no.: 210-833</b>		<a href="http://www.wago.com/210-833">www.wago.com/210-833</a>
Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white		
<b>Item no.: 210-834</b>		<a href="http://www.wago.com/210-834">www.wago.com/210-834</a>
Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white		
<b>Item no.: 210-832</b>		<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white		
Label		
<b>Item no.: 210-805</b>		<a href="http://www.wago.com/210-805">www.wago.com/210-805</a>
Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white		

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**Item no.:** 210-805/000-002

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow

[www.wago.com/210-805/000-002](http://www.wago.com/210-805/000-002)

Marker	
<b>Item no.:</b> 2009-115	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	
<b>Item no.:</b> 793-5501	<a href="http://www.wago.com/793-5501">www.wago.com/793-5501</a>
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	
Ferrule	
Ferrule	
<b>Item no.:</b> 216-241	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	
<b>Item no.:</b> 216-242	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	
<b>Item no.:</b> 216-243	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	
<b>Item no.:</b> 216-244	<a href="http://www.wago.com/216-244">www.wago.com/216-244</a>
Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	
<b>Item no.:</b> 216-263	<a href="http://www.wago.com/216-263">www.wago.com/216-263</a>
Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	
<b>Item no.:</b> 216-246	<a href="http://www.wago.com/216-246">www.wago.com/216-246</a>
Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	
<b>Item no.:</b> 216-266	<a href="http://www.wago.com/216-266">www.wago.com/216-266</a>
Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	
<b>Item no.:</b> 216-264	<a href="http://www.wago.com/216-264">www.wago.com/216-264</a>
Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	
<b>Item no.:</b> 216-286	<a href="http://www.wago.com/216-286">www.wago.com/216-286</a>
Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	
<b>Item no.:</b> 216-262	<a href="http://www.wago.com/216-262">www.wago.com/216-262</a>
Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	
Strain relief	
Strain relief plate	
<b>Item no.:</b> 734-430	<a href="http://www.wago.com/734-430">www.wago.com/734-430</a>
Strain relief plate; for female and male connectors; 1 part; gray	

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



### Insulation stop

Insulation stop		
<b>Item no.: 2002-171</b> Insulation stop; 0.25 - 0.5 mm <sup>2</sup> ; 5 pieces/strip; light gray		<a href="http://www.wago.com/2002-171">www.wago.com/2002-171</a>
<b>Item no.: 2002-172</b> Insulation stop; 0.75 - 1 mm <sup>2</sup> ; 5 pieces/strip; dark gray		<a href="http://www.wago.com/2002-172">www.wago.com/2002-172</a>

### Locking levers

Locking system		
<b>Item no.: 2022-151</b> Locking lever; gray		<a href="http://www.wago.com/2022-151">www.wago.com/2022-151</a>
<b>Item no.: 2022-152</b> Locking lever; orange		<a href="http://www.wago.com/2022-152">www.wago.com/2022-152</a>

### Protective warning marker

Cover		
<b>Item no.: 2002-115</b> Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow		<a href="http://www.wago.com/2002-115">www.wago.com/2002-115</a>

## Downloads

### Documentation

#### Bid Text

2022-112 X81 - Datei	2019 年5月17 日	xml 4.2 kB	Download
2022-112 docx - Datei	2019 年5月14 日	docx 15.7 kB	Download

#### Additional Information

		pdf 2.3 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 2022-112		URL	Download
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### CAE data

EPLAN Data Portal 2022-112		URL	Download
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WSCAD Universe 2022-112

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2022-112

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1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm;  
12-pole; 4,00 mm²; gray

## Installation Notes

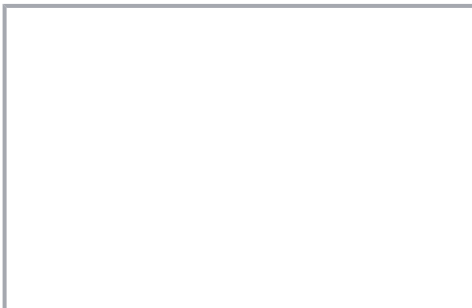
### Coding



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

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Hansastr. 27

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Slide the locking lever into position.

Female plugs can be individually locked.

## Product family

**X-COM S**

[Show all products from the family](#)

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