

**Data sheet | Item number: 2022-174**

Center module for 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm; 1-pole; 4,00 mm²; blue

[www.wago.com/2022-174](http://www.wago.com/2022-174)



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

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.

### 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.

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### 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

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

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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 <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	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

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



## 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	blue
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.053 MJ
Weight	3.3 g

## Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

## Commercial data

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	4050821243380
Customs tariff number	85366990990

## Environmental Product Compliance

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

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### 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
	<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

#### Strain relief

Strain relief plate		
<b>Item no.: 734-326</b>	Strain relief plate; for female and male connectors; 35 mm wide; 1 part; gray	<a href="http://www.wago.com/734-326">www.wago.com/734-326</a>
<b>Item no.: 734-327</b>	Strain relief plate; for female and male connectors; 6 mm wide; 1 part; gray	<a href="http://www.wago.com/734-327">www.wago.com/734-327</a>
<b>Item no.: 734-328</b>	Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; gray	<a href="http://www.wago.com/734-328">www.wago.com/734-328</a>

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**Item no.: 734-329**

Strain relief plate; for female and male connectors; 25 mm wide; 1 part; gray

[www.wago.com/734-329](http://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](http://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](http://www.wago.com/734-431)**Tool**

## Operating tool

**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Locking levers**

## Locking system

**Item no.: 2022-141**

Locking lever; gray

[www.wago.com/2022-141](http://www.wago.com/2022-141)**Item no.: 2022-151**

Locking lever; gray

[www.wago.com/2022-151](http://www.wago.com/2022-151)**Item no.: 2022-142**

Locking lever; orange

[www.wago.com/2022-142](http://www.wago.com/2022-142)**Item no.: 2022-152**

Locking lever; orange

[www.wago.com/2022-152](http://www.wago.com/2022-152)**Insulation stop**

## Insulation stop

**Item no.: 2002-171**Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray[www.wago.com/2002-171](http://www.wago.com/2002-171)**Item no.: 2002-172**Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray[www.wago.com/2002-172](http://www.wago.com/2002-172)**Ferrule**

## Ferrule

**Item no.: 216-241**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[www.wago.com/216-241](http://www.wago.com/216-241)**Item no.: 216-242**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[www.wago.com/216-242](http://www.wago.com/216-242)**Item no.: 216-243**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[www.wago.com/216-243](http://www.wago.com/216-243)**Item no.: 216-244**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[www.wago.com/216-244](http://www.wago.com/216-244)**Item no.: 216-263**

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

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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 [www.wago.com/216-263](http://www.wago.com/216-263)

**Item no.: 216-246**

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 [www.wago.com/216-246](http://www.wago.com/216-246)

**Item no.: 216-266**

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 [www.wago.com/216-266](http://www.wago.com/216-266)

**Item no.: 216-264**

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 [www.wago.com/216-264](http://www.wago.com/216-264)

**Item no.: 216-286**

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 [www.wago.com/216-286](http://www.wago.com/216-286)

**Item no.: 216-262**

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 [www.wago.com/216-262](http://www.wago.com/216-262)

**Marking accessories**

## Marking strip

**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white [www.wago.com/2009-110](http://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](http://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](http://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](http://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](http://www.wago.com/210-832)

## Marker

**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white [www.wago.com/2009-115](http://www.wago.com/2009-115)

**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/793-5501](http://www.wago.com/793-5501)

**Protective warning marker**

## Cover

**Item no.: 2002-115**

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow [www.wago.com/2002-115](http://www.wago.com/2002-115)

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## Downloads

### Documentation

#### Bid Text

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2022-174 X81 - Datei	2019 年2月19 日	xml 4.4 kB	Download
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#### Additional Information

		pdf 2.3 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 2022-174		URL	Download
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EPLAN Data Portal 2022-174		URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2022-174		URL	Download
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Center module for 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm<sup>2</sup>;  
Pin spacing 5.2 mm; 1-pole; 4,00 mm<sup>2</sup>; blue

## Installation Notes

### Coding

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<sup>®</sup>S-SYSTEM terminal block assembly.

## Product family

### X-COM S

[Show all products from the family](#)

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