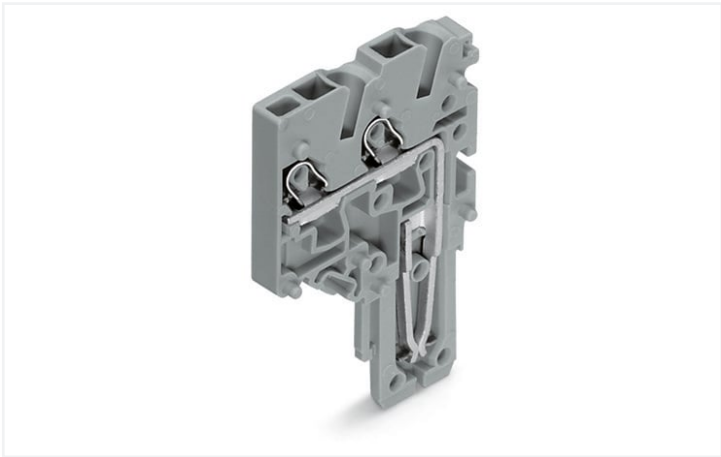




Color: ■ gray

**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 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.

| 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 61984    |       |       | Approvals per |       | UL 1059 |       |
| Overvoltage category |  | III             | III   | II    | Use group     | B     | C       | D     |
| Pollution degree     |  | 3               | 2     | 2     | Rated voltage | 300 V | 300 V   | 300 V |
| Nominal voltage      |  | 500 V           | -     | -     | Rated current | 15 A  | 15 A    | 15 A  |
| Rated surge voltage  |  | 6 kV            | -     | -     |               |       |         |       |
| Rated current        |  | 13.5 A          | -     | -     |               |       |         |       |
| Approvals per        |  | CSA 22.2 No 158 |       |       |               |       |         |       |
| Use group            |  | B               | C     | D     |               |       |         |       |
| Rated voltage        |  | 300 V           | 300 V | 300 V |               |       |         |       |
| Rated current        |  | 10 A            | 10 A  | 10 A  |               |       |         |       |

## Connection data

|                            |   |                                                            |                                                                                                                                   |
|----------------------------|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection points          | 2 | <b>Connection 1</b>                                        |                                                                                                                                   |
| Total number of potentials | 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  | 25 mm / 0.984 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)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | gray                                                                                                                   |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.044 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                  | 4050821245261     |
| Customs tariff number | 85366990990       |

### Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

### Approvals / Certificates

#### General approvals



| Approval                            | Standard | Certificate Name |
|-------------------------------------|----------|------------------|
| CCA<br>DEKRA Certification B.V.     | EN 60947 | NTR NL 7617      |
| CSA<br>DEKRA Certification B.V.     | C22.2    | 2516073          |
| UL<br>UL International Germany GmbH | UL 1059  | E 45172          |

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

| Approval                                           | Standard | Certificate Name |
|----------------------------------------------------|----------|------------------|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |

### Approvals for marine applications



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



Downloads

Environmental Product Compliance

|                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|
| Compliance Search                                                                                                           |
| Environmental Product Compliance 2020-281  |

Documentation

|                        |                                                                                                     |          |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------|
| Additional Information |                                                                                                     | Bid Text |                                                                                                                 |
| Technical Section      | pdf<br>2240.62 KB  | 2020-281 | 19.02.2019 xml<br>4.10 KB    |
|                        |                                                                                                     | 2020-281 | 07.08.2018 docx<br>15.51 KB  |

CAD/CAE-Data

|                                                                                                            |                                                                                                                   |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| CAD data                                                                                                   | CAE data                                                                                                          |
| 2D/3D Models<br>2020-281  | EPLAN Data Portal<br>2020-281  |
|                                                                                                            | WSCAD Universe<br>2020-281    |
|                                                                                                            | ZUKEN Portal<br>2020-281     |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



|                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-241</a><br>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 | <a href="#">Item No.: 216-242</a><br>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 | <a href="#">Item No.: 216-243</a><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.1.2 Locking system

1.1.2.1 Locking system



|                                                           |                                                           |                                                             |                                                             |
|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <a href="#">Item No.: 2022-141</a><br>Locking lever; gray | <a href="#">Item No.: 2022-151</a><br>Locking lever; gray | <a href="#">Item No.: 2022-142</a><br>Locking lever; orange | <a href="#">Item No.: 2022-152</a><br>Locking lever; orange |
|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|



1.1.3 Marking

1.1.3.1 Marker



**Item No.: 793-3501**  
WMB marking card; as card; plain; snap-on type; white



**Item No.: 2009-113**  
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

1.1.4 Protective warning marker

1.1.4.1 Cover



**Item No.: 2000-115**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.1.5 Screwless end stop

1.1.5.1 Mounting accessories



**Item No.: 249-117**  
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 249-116**  
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.6 Strain relief

1.1.6.1 Strain relief plate



**Item No.: 734-328**  
Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; gray



**Item No.: 734-329**  
Strain relief plate; for female and male connectors; 25 mm wide; 1 part; gray



**Item No.: 734-326**  
Strain relief plate; for female and male connectors; 35 mm wide; 1 part; gray



**Item No.: 734-327**  
Strain relief plate; for female and male connectors; 6 mm wide; 1 part; gray

1.1.7 Tool

1.1.7.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



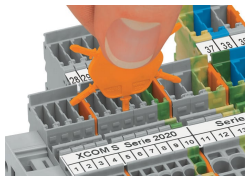
**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

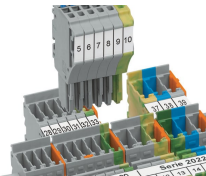
Coding



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.