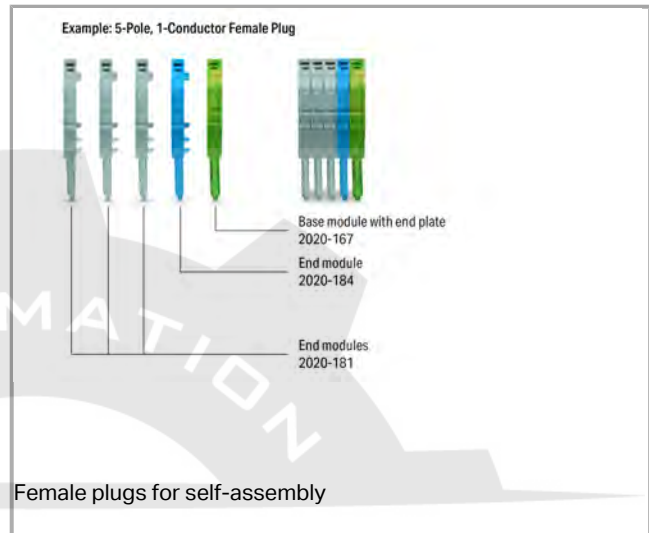


**Data sheet | Item number: 2020-161**

Start module for 1-conductor female connector; with integrated end plate;  
1.5 mm<sup>2</sup>; 1-pole



2020-161



RoHS ✓  
Compliant

BOMcheck.net

Color: ■

## Item description

### Customizing Modular Female Plugs

WAGO's modular X-COM®S-SYSTEM female plugs can be customized for applications requiring varying numbers 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 end plate
- Up to 14 end modules

### Intended Use

According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

### Mounting

The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.

### Safety information 1:

According to EN 61984, pluggable connectors without current interrupting capacity shall not be mated and unmated when live or under load.

## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 500 V  |
| Rated impulse voltage (III / 3) | 6 kV   |
| Rated current                   | 13.5 A |

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

#### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| 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  |

## Connection data

|                                      |                                                                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection technology                | Push-in CAGE CLAMP®                                                                                                               |
| Actuation type                       | Open Tool Slot<br>Push-in                                                                                                         |
| 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                                                                                                  |
| Strip length                         | 9 ... 11 mm / 0.35 ... 0.43 inch                                                                                                  |
| Note (conductor cross-section)       | Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination. |
| No. of poles                         | 1                                                                                                                                 |
| Total number of connection points    | 1                                                                                                                                 |
| Total number of potentials           | 1                                                                                                                                 |
| Type of wiring                       | Front-entry wiring                                                                                                                |

## Geometrical Data

|        |                      |
|--------|----------------------|
| Width  | 4.2 mm / 0.165 inch  |
| Height | 40.5 mm / 1.594 inch |
| Depth  | 22.4 mm / 0.882 inch |

## Mechanical data

|               |              |
|---------------|--------------|
| Marking level | Side marking |
|---------------|--------------|

## Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for conductors          |

## Material Data

|                     |                      |
|---------------------|----------------------|
| Color               | gray                 |
| Insulating material | Polyamide 66 (PA 66) |
| Fire load           | 0.052 MJ             |
| Weight              | 2.69 g               |

## Commercial data

|                   |                   |
|-------------------|-------------------|
| Product Group     | 18 (X-COM-System) |
| Country of origin | CN                |
| GTIN              | 4050821245131     |

Customs Tariff No.

85366990990

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                             | Approval                               | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|----------------------------------------|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V. | EN 60947                 | NTR NL<br>7617   |
|  | <b>CSA</b><br>DEKRA Certification B.V. | C22.2 No. 158            | 2516073          |
|  | <b>CSA</b><br>DEKRA Certification B.V. | C22.2 No. 158            | 2516073          |

### Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | EN 60947                 | 14-<br>HG1293677-<br>PDA |
|   | <b>BV</b><br>Bureau Veritas S.A.                        | EN 60947                 | 38586/A0 BV              |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001V2               |
|  | <b>LR</b><br>Lloyds Register                            | EN 60947                 | 91/20112<br>(E9)         |

### UL-Approvals

| Logo                                                                               | Approval                                   | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>UL International Germany GmbH | UL 1059                  | E45172           |
|                                                                                    | <b>UL</b>                                  | UL 1059                  | E45172           |



Underwriters Laboratories Inc.

## Compatible products

### Strain relief plate



Item no.: 734-326  
Strain relief plate

734-326

### 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

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

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

216-243

### tools



Item no.: 210-647  
Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short

210-647



Item no.: 210-648  
Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short; angled

210-648



Item no.: 210-719  
Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm

210-719

### Protective Warning Marker



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

2000-115

### Marking accessories



Item no.: 2009-110  
Marking strips; on reel; not stretchable; plain; snap-on type

2009-110



Item no.: 2009-113  
WMB-Inline; for Smart Printer; on reel; plain; snap-on type

2009-113



Item no.: 2009-113/000-002  
WMB-Inline; for Smart Printer; on reel; plain; snap-on type

2009-113

/000-002



Item no.: 2009-113/000-005  
WMB-Inline; for Smart Printer; on reel; plain; snap-on type

2009-113

/000-005

|                                                                                    |                                                                                           |                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------|
|   | Item no.: 2009-113/000-006<br>WMB-Inline; for Smart Printer; on reel; plain; snap-on type | 2009-113<br>/000-006 |
|   | Item no.: 2009-113/000-007<br>WMB-Inline; for Smart Printer; on reel; plain; snap-on type | 2009-113<br>/000-007 |
|   | Item no.: 2009-113/000-012<br>WMB-Inline; for Smart Printer; on reel; plain; snap-on type | 2009-113<br>/000-012 |
|   | Item no.: 2009-113/000-017<br>WMB-Inline; for Smart Printer; on reel; plain; snap-on type | 2009-113<br>/000-017 |
|   | Item no.: 2009-113/000-023<br>WMB-Inline; for Smart Printer; on reel; plain; snap-on type | 2009-113<br>/000-023 |
|   | Item no.: 2009-113/000-024<br>WMB-Inline; for Smart Printer; on reel; plain; snap-on type | 2009-113<br>/000-024 |
|    | Item no.: 210-831<br>Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive           | 210-831              |
|  | Item no.: 210-832<br>Marking strips; on reel; 3 mm wide; plain; Self-adhesive             | 210-832              |
|  | Item no.: 210-833<br>Marking strips; on reel; 6 mm wide; plain; Self-adhesive             | 210-833              |
|  | Item no.: 210-834<br>Marking strips; on reel; 5 mm wide; plain; Self-adhesive             | 210-834              |
|  | Item no.: 793-3501<br>WMB marking card; as card; plain; snap-on type                      | 793-3501             |

## Downloads

## Documentation

## Bid Text

|          |                 |          |
|----------|-----------------|----------|
| 2020-161 | docx<br>15.9 kB | Download |
|----------|-----------------|----------|

## Additional Information

|               |          |
|---------------|----------|
| pdf<br>2.1 MB | Download |
|---------------|----------|

## CAD/CAE - Smart Data

## CAD data

## Product family

### X-COM S

Show all products from the family



Subject to changes.