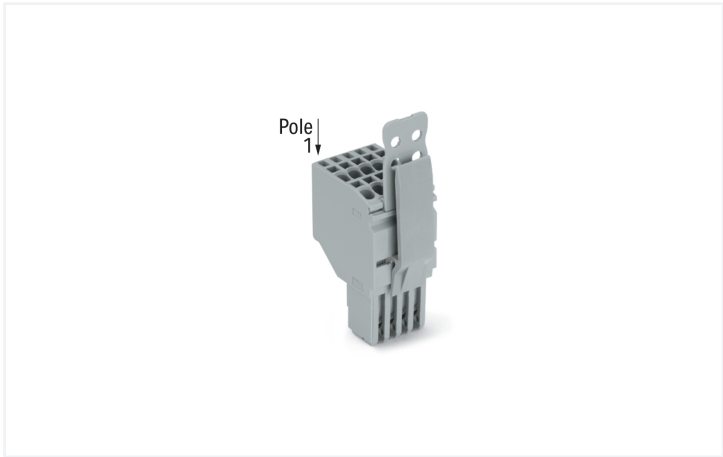




Color: ■ gray                      Similar to illustration

Female connector, 2020 Series, operating tool

This female connector (item number 2020-204/143-000) simplifies electrical installations. Strip lengths must be between 9 and 11 mm when connecting conductors to this female connector. Pluggable rail-mount terminal blocks are mainly used in switchgear units and control systems (e.g., in railroad technology). They are essentially a combination of rail-mount terminal blocks and pluggable connectors. You can also pre-assemble installations thanks to the variable wiring system. This saves both time and money during manufacture, installation, operation, and maintenance. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Dimensions: (14.7 x 59 x 29.8) mm (width x height x depth). Depending on the conductor type, this female connector is designed for conductor cross sections ranging from 0.14 mm² to 1.5 mm².

This female connector/socket is operated with an operating tool. The strain relief plate is a safety precaution for connected conductors that also makes wires easier to handle..

| 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 impulse withstand 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  |

| General information |                    |
|---------------------|--------------------|
| Wiring direction    | Front-entry wiring |

Connection Data

|                            |   |
|----------------------------|---|
| Clamping units             | 8 |
| Total number of potentials | 4 |

| 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                                                | 4                                                                                                                                 |
| Wiring direction                                           | Front-entry wiring                                                                                                                |

Physical data

|              |                        |
|--------------|------------------------|
| Width        | 14.7 mm / 0.579 inches |
| Height       | 59 mm / 2.323 inches   |
| Depth        | 29.8 mm / 1.173 inches |
| Module width | 3.5 mm / 0.138 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                      |
| Locking of plug-in connection      | Locking lever           |
| Strain relief                      | Strain relief plate     |



| Material data                      |                                                                          |  |
|------------------------------------|--------------------------------------------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |  |
| Color                              | gray                                                                     |  |
| Material group                     | I                                                                        |  |
| Insulation material (main housing) | Polyamide (PA66)                                                         |  |
| Flammability class per UL94        | V0                                                                       |  |
| Fire load                          | 0.224 MJ                                                                 |  |
| Weight                             | 12.5 g                                                                   |  |

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

| Commercial data       |                   |  |
|-----------------------|-------------------|--|
| Product Group         | 18 (X-COM-System) |  |
| PU (SPU)              | 50 pcs            |  |
| Packaging type        | Box               |  |
| Country of origin     | DE                |  |
| GTIN                  | 4050821092858     |  |
| Customs tariff number | 85366990990       |  |

| Product Classification |                      |  |
|------------------------|----------------------|--|
| UNSPSC                 | 39121409             |  |
| eCl@ss 10.0            | 27-14-11-06          |  |
| eCl@ss 9.0             | 27-14-11-06          |  |
| ETIM 9.0               | EC001284             |  |
| ETIM 10.0              | EC001284             |  |
| ECCN                   | NO US CLASSIFICATION |  |

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

Approvals / Certificates

| General approvals                                                                  |          |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------|----------|------------------|------------------------------------------------------------|----------|------------------|
|  |          |                  | Approval                                                   | Standard | Certificate Name |
| Approval                                                                           | Standard | Certificate Name | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                    | EN 60947 | NTR NL 7617      | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL<br>UL International Germany<br>GmbH                                             | UL 1059  | E 45172          |                                                            |          |                  |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance  
2020-204/143-000

↓

Documentation

Bid Text

|                  |            |                  |   |
|------------------|------------|------------------|---|
| 2020-204/143-000 | 19.02.2019 | xml<br>4.01 KB   | ↓ |
| 2020-204/143-000 | 06.08.2018 | docx<br>15.32 KB | ↓ |

CAD/CAE-Data

CAD data

2D/3D Models  
2020-204/143-000

↓

CAE data

EPLAN Data Portal  
2020-204/143-000

↓

WSCAD Universe  
2020-204/143-000

↓

ZUKEN Portal  
2020-204/143-000

↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 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



[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



[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

1.1.2 Marking

1.1.2.1 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

1.1.3 Protective warning marker

1.1.3.1 Cover



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

1.1.4 Screwless end stop

1.1.4.1 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

1.1.5 Tool

1.1.5.1 Operating tool



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



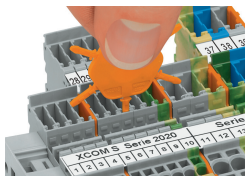
**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



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

Installation Notes

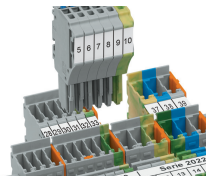
Coding



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.