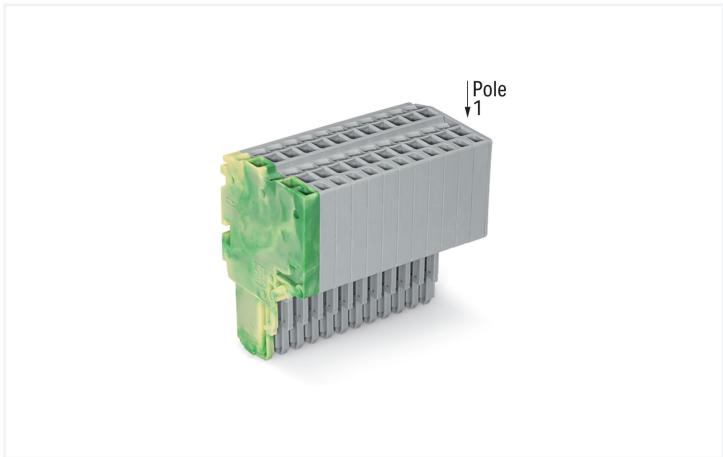




Color: ☐ green-yellow/gray Similar to illustration

Female connector, 2020 Series, green-yellow/gray

This female connector (item number 2020-215/000-037) provides seamless electrical installations. Ensure that the strip lengths are 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. The dimensions are (53.2 x 40.5 x 25) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm².

This female connector/socket is operated with an operating tool.

| 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                                             | 30                                                                                                                                | <div><div>Connection 1</div><table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Operating tool</td></tr><tr><td>Connectable conductor materials</td><td>Copper</td></tr><tr><td>Nominal cross-section</td><td>1 mm²</td></tr><tr><td>Solid conductor</td><td>0.14 ... 1.5 mm² / 24 ... 16 AWG</td></tr><tr><td>Solid conductor; push-in termination</td><td>0.5 ... 1.5 mm² / 20 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.14 ... 1.5 mm² / 24 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated fer-rule</td><td>0.14 ... 0.75 mm² / 24 ... 18 AWG</td></tr><tr><td>Fine-stranded conductor; with ferrule; push-in termination</td><td>0.5 ... 0.75 mm² / 20 ... 18 AWG</td></tr><tr><td>Note (conductor cross-section)</td><td>Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.</td></tr><tr><td>Strip length</td><td>9 ... 11 mm / 0.35 ... 0.43 inches</td></tr><tr><td>Pole number</td><td>15</td></tr><tr><td>Wiring direction</td><td>Front-entry wiring</td></tr></table></div> | 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 fer-rule | 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 | 15 | Wiring direction | Front-entry wiring |
| 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 fer-rule           | 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                                                | 15                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                     |                |                |                                 |        |                       |       |                 |                                  |                                      |                                 |                         |                                  |                                                  |                                   |                                                            |                                  |                                |                                                                                                                                   |              |                                    |             |    |                  |                    |
| Wiring direction                                           | Front-entry wiring                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                     |                |                |                                 |        |                       |       |                 |                                  |                                      |                                 |                         |                                  |                                                  |                                   |                                                            |                                  |                                |                                                                                                                                   |              |                                    |             |    |                  |                    |
| Total number of potentials                                 | 15                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                     |                |                |                                 |        |                       |       |                 |                                  |                                      |                                 |                         |                                  |                                                  |                                   |                                                            |                                  |                                |                                                                                                                                   |              |                                    |             |    |                  |                    |

| Physical data |                        |
|---------------|------------------------|
| Width         | 53.2 mm / 2.094 inches |
| Height        | 40.5 mm / 1.594 inches |
| Depth         | 25 mm / 0.984 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                      |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | green-yellow/gray                                                        |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Fire load                          | 0.601 MJ                                                                 |
| Weight                             | 41.2 g                                                                   |

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

| Commercial data       |  |                   |
|-----------------------|--|-------------------|
| Product Group         |  | 18 (X-COM-System) |
| PU (SPU)              |  | 10 pcs            |
| Packaging type        |  | Box               |
| Country of origin     |  | DE                |
| GTIN                  |  | 4050821221975     |
| 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



| Approval                            | Standard | Certificate Name |
|-------------------------------------|----------|------------------|
| CCA<br>DEKRA Certification B.V.     | EN 60947 | NTR NL 7617      |
| 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 | -        | -                |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance  
2020-215/000-037





Documentation

| Bid Text         |            |                  |  |
|------------------|------------|------------------|--|
| 2020-215/000-037 | 19.02.2019 | xml<br>4.00 KB   |  |
| 2020-215/000-037 | 07.08.2018 | docx<br>15.27 KB |  |

CAD/CAE-Data

| CAD data                         |  |
|----------------------------------|--|
| 2D/3D Models<br>2020-215/000-037 |  |

| CAE data                              |  |
|---------------------------------------|--|
| EPLAN Data Portal<br>2020-215/000-037 |  |
| WSCAD Universe<br>2020-215/000-037    |  |
| ZUKEN Portal<br>2020-215/000-037      |  |

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 Locking system

1.1.2.1 Locking system



**Item No.: 2022-151**  
Locking lever; gray



**Item No.: 2022-152**  
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 Strain relief

1.1.5.1 Strain relief plate



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

1.1.6 Tool

1.1.6.1 Operating tool



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



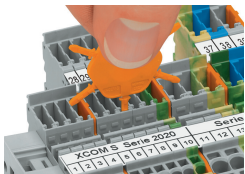
**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



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

Installation Notes

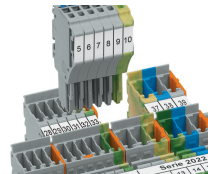
Coding



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.