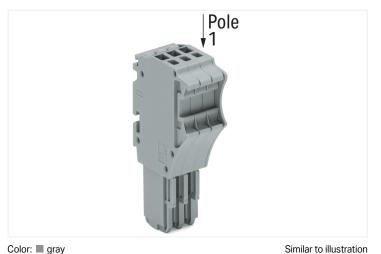
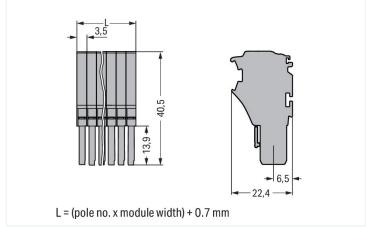
1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5

mm; 12-pole; 1,50 mm²; gray

https://www.wago.com/2020-112







Color: ■ gray

Female connector, 2020 Series, Push-in CAGE CLAMP®

Our female connector (item number 2020-112) ensures effortless electrical installations. Pluggable rail-mount terminal blocks are primarily found in switchgear units and control systems, most notably in railroad technology. These innovative systems combine the properties of rail-mount terminal blocks and connectors for a flexible and reliable wiring system. You also have the option of pre-assembling installations, which not only makes production but also installation, operation, and maintenance more efficient and cost-effective. This pluggable rail-mount terminal block has a rated voltage of 500 V and can handle currents up to 13.5 A. Conductors should only be connected to this female connector if their strip length is between 9 mm and 11 mm. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. Dimensions: 42.7 x 40.5 x 22.4 mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm². There are twelve clamping points available for connecting twelve different potentials / twelve poles. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this female connector/socket. Conductors made of copper can be connected via front-entry wiring.

Dimensions in mm

| 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 | IE | C/EN 6198 | 4 | |
| Overvoltage category | III | III | II | |
| Pollution degree | 3 | 2 | 2 | |
| Nominal voltage | 500 V | - | - | |
| Rated surge voltage | 6 kV | - | - | |
| Rated current | 13.5 A | - | - | |

| Approvals per | CS | SA 22.2 No 1 | 58 |
|---------------|-------|--------------|-------|
| Use group | В | С | D |
| Rated voltage | 300 V | 300 V | 300 V |
| Rated current | 10 A | 10 A | 10 A |

| Approvals per | | UL 1059 | |
|---------------|-------|---------|-------|
| Use group | В | С | D |
| Rated voltage | 300 V | 300 V | 300 V |
| Rated current | 15 A | 15 A | 15 A |



| onnection data | | | |
|-------------------------------|--------------------------------|---|---------------------------|
| Clamping units | 12 | Connection 1 | |
| Total number of potentials 12 | 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 | 12 |
| | Wiring direction | Front-entry wiring | |

| Physical data | |
|---------------|------------------------|
| Width | 42.7 mm / 1.681 inches |
| Height | 40.5 mm / 1.594 inches |
| Depth | 22.4 mm / 0.882 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) | Information on material specifications can be found here |
| Color | gray |
| Material group | 1 |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | VO |
| Fire load | 0.481 MJ |
| Weight | 27.1 g |

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

| Commercial data | | |
|-----------------------|---------------|--|
| PU (SPU) | 20 pcs | |
| Packaging type | Box | |
| Country of origin | CN | |
| GTIN | 4050821245100 | |
| 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 8.0 | EC001284 |
| ECCN | NO US CLASSIFICATION |

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

Approvals / Certificates

General approvals







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

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



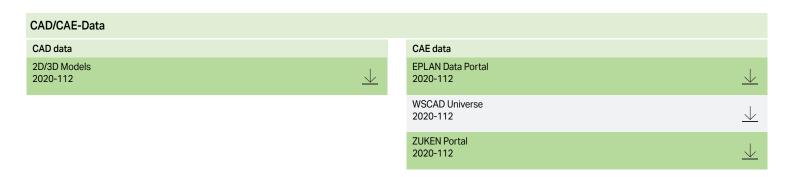
| Approval | Standard | Certificate Name |
|---------------------------------|----------|------------------|
| ABS American Bureau of Ship- | EN 60947 | 20-HG1941090-PDA |

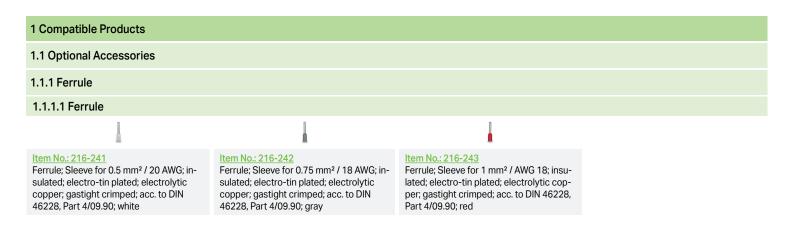
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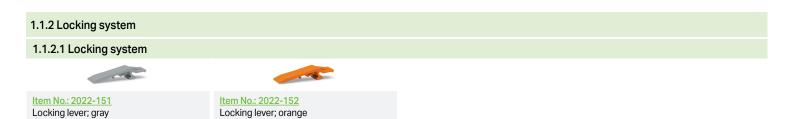


Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 2020-112

| Documentation | | | |
|---------------|------------|------------------|--------------------------|
| Bid Text | | | |
| 2020-112 | 19.02.2019 | xml 3.90 KB | $\underline{\downarrow}$ |
| 2020-112 | 06.08.2018 | docx 15.02 KB | $\underline{\downarrow}$ |







https://www.wago.com/2020-112



1.1.3 Marking

1.1.3.1 Marker

MINIME

4

Item No.: 793-3501

WMB marking card; as card; plain; snapon type; white Item No.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

1.1.3.2 Marking strip



Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

Item No.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

Item No.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

Item No.: 210-834

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; 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.: 734-326

Strain relief plate; for female and male connectors; 35 mm wide; 1 part; gray

https://www.wago.com/2020-112



1.1.7 Tool

1.1.7.1 Operating tool

<u>Item No.: 210-719</u>

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.

Locking system



Slide the locking lever into position.



Female plugs can be individually locked.

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

Current addresses can be found at:: $\underline{www.wago.com}$

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