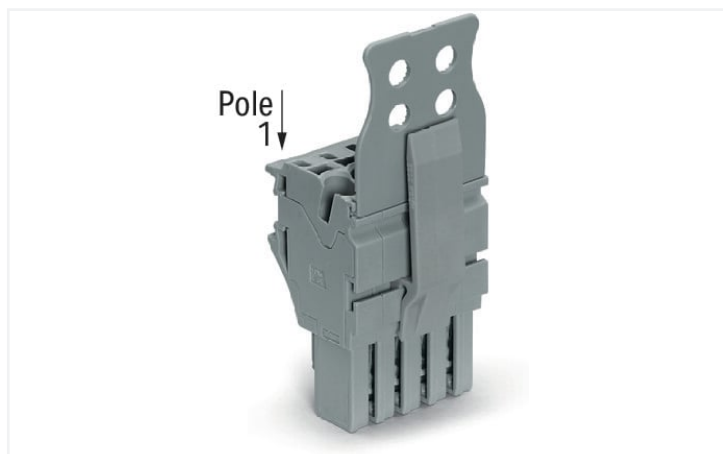# Data Sheet | Item Number: 2022-103/143-000

## 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm; 3-pole; Centered locking levers; Strain relief plate; 4,00 mm²; gray

https://www.wago.com/2022-103/143-000

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Pole 1 ↓

Color: ■ gray

Similar to illustration

## Notes

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

## Electrical data

| Ratings per | IEC/EN 61984 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 690 V | - | - |
| Rated surge voltage | 6 kV | - | - |
| Rated current | 24 A | - | - |
| Current at conductor cross-section (max.) mm² | 32 A | - | - |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 600 V | 600 V | - |
| Rated current | 20 A | 20 A | - |

| Approvals per | CSA 22.2 No 158 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | - | 600 V | - |
| Rated current | - | 20 A | - |

## Connection data

| | |
|---|---|
| Connection points | 3 |
| Total number of potentials | 3 |

| Connection 1 | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool |
| Connectable conductor materials | Copper |
| Nominal cross-section | 2.5 mm² |
| Solid conductor | 0.25 … 4 mm² / 22 … 12 AWG |
| Solid conductor; push-in termination | 0.75 … 4 mm² / 18 … 12 AWG |
| Fine-stranded conductor | 0.25 … 4 mm² / 22 … 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 … 2.5 mm² / 22 … 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1 … 2.5 mm² / 18 … 14 AWG |

## Connection 1

| | |
|---|---|
| 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 | 10 … 12 mm / 0.39 … 0.47 inches |
| Pole number | 3 |
| Wiring direction | Front-entry wiring |

## Physical data

| | |
|---|---|
| Width | 15.6 mm / 0.614 inches |
| Height | 59 mm / 2.323 inches |
| Depth | 27.2 mm / 1.071 inches |
| Module width | 5.2 mm / 0.205 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 |
| Locking of plug-in connection | Locking lever |
| Strain relief | Strain relief plate |

## 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 | 0.375 MJ |
| Weight | 10.9 g |

## Environmental requirements

| | |
|---|---|
| Processing temperature | -35 … +85 ℃ |
| Continuous operating temperature | -60 … +105 ℃ |

## 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) | 100 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821090700 |
| Customs tariff number | 85366990990 |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CSA<br>DEKRA Certification B.V. | C22.2 No. 158 | 2437422 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 2022-103/143-000

### Documentation

| Additional Information | | |
|---|---|---|
| Technical Section | pdf<br>2240.62 KB | |

| Bid Text | | |
|---|---|---|
| 2022-103/143-000 | 14.05.2019 | docx<br>15.02 KB |
| 2022-103/143-000 | 15.05.2019 | xml<br>4.22 KB |

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## CAD/CAE-Data

### CAD data

2D/3D Models
2022-103/143-000 ⤓

### CAE data

EPLAN Data Portal
2022-103/143-000 ⤓

WSCAD Universe
2022-103/143-000 ⤓

ZUKEN Portal
2022-103/143-000 ⤓

## 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.: 216-262**
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

**Item No.: 216-263**
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

**Item No.: 216-244**
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item No.: 216-264**
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item No.: 216-284**
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item No.: 216-246**
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**Item No.: 216-266**
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**Item No.: 216-286**
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

#### 1.1.2 Insulation stop

##### 1.1.2.1 Insulation stop

**Item No.: 2002-171**
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

**Item No.: 2002-172**
Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; dark gray

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## 1.1.3 Marking

### 1.1.3.1 Label

**Item No.: 210-805**
Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white

**Item No.: 210-805/000-002**
Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow

### 1.1.3.2 Marker

**Item No.: 793-5501**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

**Item No.: 2009-115**
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

### 1.1.3.3 Marking strip

**Item No.: 210-833**
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.: 2002-115**
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
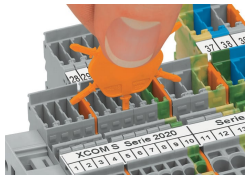
Version 13.11.2023

## 1.1.6 Tool

### 1.1.6.1 Operating tool

Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured
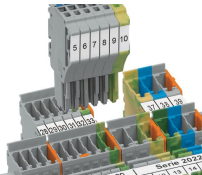
## Installation Notes

### 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.

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

Current addresses can be found at:: www.wago.com