

## Data sheet | Item number: 2020-108/144-000

1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 8-pole; Centered locking levers; Strain relief plate; 1,50 mm<sup>2</sup>; gray

[www.wago.com/2020-108/144-000](http://www.wago.com/2020-108/144-000)



### Data 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

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Ratings per                   | IEC/EN 61984                                              |
| Nominal voltage (III/3)       | 500 V                                                     |
| Rated impulse voltage (III/3) | 6 kV                                                      |
| Rated current                 | 13.5 A                                                    |
| Legend (ratings)              | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

#### Ratings per UL

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

#### Ratings per CSA

|                                 |                 |
|---------------------------------|-----------------|
| Approvals per                   | CSA 22.2 No 158 |
| Rated voltage CSA (Use Group B) | 300 V           |
| Rated current CSA (Use Group B) | 10 A            |
| Rated voltage CSA (Use Group C) | 300 V           |

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

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|                                 |       |
|---------------------------------|-------|
| Rated current CSA (Use Group C) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

## Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 8 |
| Total number of potentials | 8 |

## 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                                                | 8                                                                                                                                 |
| Wiring direction                                           | Front-entry wiring                                                                                                                |

## Physical data

|              |                        |
|--------------|------------------------|
| Width        | 28.7 mm / 1.13 inches  |
| Height       | 64 mm / 2.52 inches    |
| Depth        | 27.2 mm / 1.071 inches |
| Module width | 3.5 mm / 0.138 inches  |

## Mechanical Data

|                          |              |
|--------------------------|--------------|
| Variable coding          | Yes          |
| Marking level            | Side marking |
| Anti-rotation protection | Yes          |

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## Plug-in connection

|                                      |                         |
|--------------------------------------|-------------------------|
| Contact type (pluggable connector)   | Female connector/socket |
| Connector (connection type)          | for conductor           |
| Mismating protection                 | No                      |
| Plugging without loss of pin spacing | No                      |
| Locking of plug-in connection        | Locking lever           |
| Strain relief                        | Strain relief plate     |

## Material data

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | gray                                                     |
| Material group              | I                                                        |
| Insulation material         | Polyamide (PA66)                                         |
| Flammability class per UL94 | V0                                                       |
| Fire load                   | 0.514 MJ                                                 |
| Weight                      | 19.7 g                                                   |

## Environmental requirements

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

## 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          |
| ECCN                  | NO DATA           |
| PU (SPU)              | 25 pcs            |
| Packaging type        | Box               |
| Country of origin     | DE                |
| GTIN                  | 4050821092599     |
| Customs tariff number | 85366990990       |

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



## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## Approvals / Certificates

### General approvals

| Logo                                                                             | Approval                                   | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.     | EN 60947                 | NTR NL<br>7617   |
|  | <b>UL</b><br>UL International Germany GmbH | UL 1059                  | E 45172          |

### Declarations of conformity and manufacturer's declarations

| Logo                                                                               | Approval                                                  | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------|------------------|
|   | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |
|  | <b>UK-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

## Optional accessories

### Ferrule

| Ferrule                                                                           |                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Item no.: 216-241</b><br>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; white <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>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; gray <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-243</b><br>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; red <a href="http://www.wago.com/216-243">www.wago.com/216-243</a>     |

### Protective warning marker

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## Cover

**Item no.: 2000-115**

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

[www.wago.com/2000-115](http://www.wago.com/2000-115)

## Tool

## Operating tool

**Item no.: 210-648**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

[www.wago.com/210-648](http://www.wago.com/210-648)**Item no.: 210-647**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-647](http://www.wago.com/210-647)**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-719](http://www.wago.com/210-719)

## Screwless end stop

## Mounting accessories

**Item no.: 249-117**

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-117](http://www.wago.com/249-117)

## Marking accessories

## Marking strip

**Item no.: 2009-110**

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

[www.wago.com/2009-110](http://www.wago.com/2009-110)**Item no.: 210-831**

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

[www.wago.com/210-831](http://www.wago.com/210-831)**Item no.: 210-833**

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

[www.wago.com/210-833](http://www.wago.com/210-833)**Item no.: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

[www.wago.com/210-834](http://www.wago.com/210-834)**Item no.: 210-832**

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

[www.wago.com/210-832](http://www.wago.com/210-832)

## Marker

**Item no.: 2009-113**

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

[www.wago.com/2009-113](http://www.wago.com/2009-113)

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Item no.: 793-3501

WMB marking card; as card; plain; snap-on type; white

**Downloads****Documentation****Bid Text**

|                                  |             |                 |          |
|----------------------------------|-------------|-----------------|----------|
| 2020-108/144-000<br>X81 - Datei  | 2019 Feb 19 | xml<br>4.1 kB   | Download |
| 2020-108/144-000<br>docx - Datei | 2018 Aug 6  | docx<br>15.7 kB | Download |

**Additional Information**

pdf  
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**CAD/CAE-Data****CAD data**

|                               |     |          |
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| 2D/3D Models 2020-108/144-000 | URL | Download |
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**CAE data**

|                                    |     |          |
|------------------------------------|-----|----------|
| EPLAN Data Portal 2020-108/144-000 | URL | Download |
| WSCAD Universe 2020-108/144-000    | URL | Download |
| EPLAN Data Portal 2020-108/144-000 | URL | Download |
| WSCAD Universe 2020-108/144-000    | URL | Download |
| ZUKEN Portal 2020-108/144-000      | URL | Download |

**Asset Administration Shell**

|                                             |     |          |
|---------------------------------------------|-----|----------|
| Asset Administration Shell 2020-108/144-000 | URL | Download |
|---------------------------------------------|-----|----------|

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2020-108/144-000

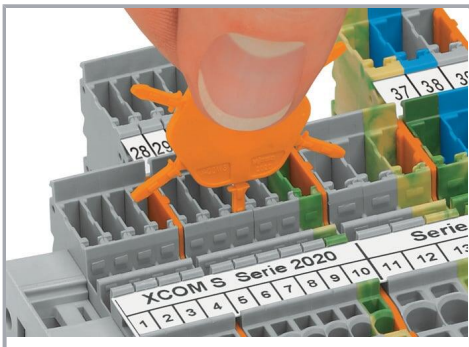
URL

Download

1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm;  
8-pole; Centered locking levers; Strain relief plate; 1,50 mm²; gray

## Installation Notes

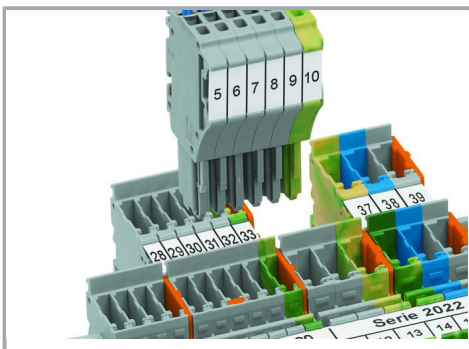
### Coding



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.

## Product family

### X-COM S-Mini

[Show all products from the family](#)

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