

## Data Sheet | Item Number: 2734-120/107-000

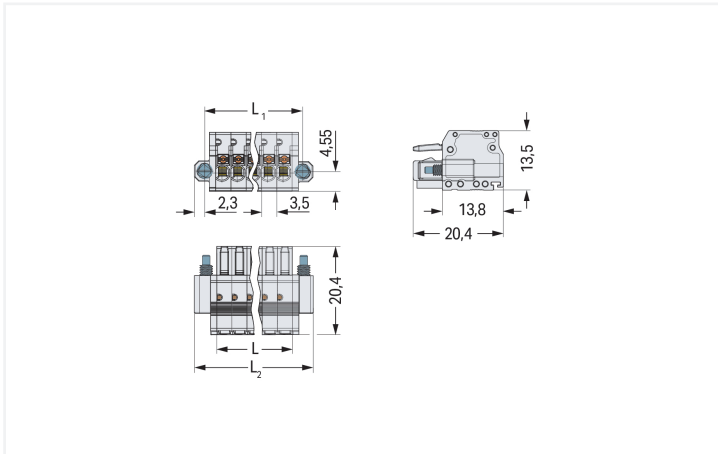
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray

<https://www.wago.com/2734-120/107-000>



Color: ■ light gray

Similar to illustration



Dimensions in mm

$L = \text{pole no.} \times \text{pin spacing}$   
 $L_1 = (\text{pole no.} \times \text{pin spacing}) + 4.9 \text{ mm}$   
 $L_2 = (\text{pole no.} \times \text{pin spacing}) + 9.5 \text{ mm}$

Female connector, 2734 Series, with 3.5 mm pin spacing

Our female connector (item number 2734-120/107-000) is designed for seamless electrical installations. Conductors can only be connected to this female connector if their strip length is between 8 and 9 mm. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. The dimensions are (79.5 x 13.5 x 20.4) mm (width x height x depth). Depending on the type of conductor, this female connector is ideal for conductor cross sections ranging from 0.2 mm² to 1.5 mm².

The contact surface is coated with tin.

## Notes

## Safety Information

The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

## Variants:

Other pole numbers  
Gold-plated or partially gold-plated contact surfaces  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

| Ratings per                     | IEC/EN 60664-1 |        |        | Approvals per | UL 1059   |   |       |
|---------------------------------|----------------|--------|--------|---------------|-----------|---|-------|
|                                 | III            | III    | II     |               | Use group | B | C     |
| Overvoltage category            | III            | III    | II     | Use group     | B         | C | D     |
| Pollution degree                | 3              | 2      | 2      | Rated voltage | 300 V     | - | 300 V |
| Nominal voltage                 | 160 V          | 160 V  | 320 V  | Rated current | 10 A      | - | 10 A  |
| Rated impulse withstand voltage | 2.5 kV         | 2.5 kV | 2.5 kV |               |           |   |       |
| Rated current                   | 10 A           | 10 A   | 10 A   |               |           |   |       |

| Approvals per | CSA   |   |       |
|---------------|-------|---|-------|
| Use group     | B     | C | D     |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 10 A  | - | 10 A  |

## Connection Data

|                            |    |   |   |
|----------------------------|----|---|---|
| Clamping units             | 20 | <b>Connection 1</b>                               |   |
| Total number of potentials | 20 | Connection technology                             | Push-in CAGE CLAMP®                         |
| Number of connection types | 1  | Actuation type                                    | Push-button                                 |
| Number of levels           | 1  | Actuation direction 1                             | Operation parallel to conductor entry       |
|                            |    | Solid conductor                                   | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
|                            |    | Fine-stranded conductor                           | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
|                            |    | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm <sup>2</sup>               |
|                            |    | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm <sup>2</sup>                |
|                            |    | Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches           |
|                            |    | Pole number                                       | 20  |
|                            |    | Conductor entry direction to mating direction     | 0°  |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 79.5 mm / 3.13 inches  |
| Height      | 13.5 mm / 0.531 inches |
| Depth       | 20.4 mm / 0.803 inches |

### Mechanical data

|                          |     |
|--------------------------|-----|
| Variable coding          | Yes |
| Anti-rotation protection | Yes |

### Plug-in connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type)        | for conductor           |
| Mismatching protection             | Yes                     |
| Locking of plug-in connection      | Screw flange            |

### Material data

|                                    |  |
|------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | light gray   |
| Material group                     | I  |
| Insulation material (main housing) | Polyamide (PA66)   |
| Flammability class per UL94        | V0   |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)  |
| Contact material                   | Copper alloy   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.318 MJ   |
| Weight                             | 18.3 g   |

### Environmental requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
| Processing temperature  | -35 ... +60 °C  |

### Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 25 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4055143285377          |
| Customs tariff number | 85366990990            |

### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 39121409             |
| eCl@ss 10.0 | 27-44-03-09          |
| eCl@ss 9.0  | 27-44-03-09          |
| ETIM 9.0    | EC002638             |
| ETIM 10.0   | EC002638             |
| 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.      | IEC 61984     | NL-23611         |
| CCA<br>DEKRA Certification B.V.      | EN 61984      | 2147056.01       |
| CSA<br>DEKRA Certification B.V.      | C22.2 No. 158 | 2314554          |
| UL<br>Underwriters Laboratories Inc. | UL 1977       | E 45171          |

**Downloads**

**Environmental Product Compliance**

| Compliance Search                                    |                   |
|--|-------------------|
| Environmental Product Compliance<br>2734-120/107-000 | <a href="#">↓</a> |

**Documentation**

| Additional Information |            |                   |                   |
|------------------------|------------|-------------------|-------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | <a href="#">↓</a> |

**CAD/CAE-Data**

| CAD data                         |                   |
|----------------------------------|-------------------|
| 2D/3D Models<br>2734-120/107-000 | <a href="#">↓</a> |

| CAE data                         |                   |
|----------------------------------|-------------------|
| ZUKEN Portal<br>2734-120/107-000 | <a href="#">↓</a> |

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Male connector/plug



**Item No.: 734-320/109-000**

1-conductor male connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Threaded flange; 1,50 mm<sup>2</sup>; light gray



**Item No.: 734-180/108-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 20-pole; light gray



**Item No.: 734-150/108-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 20-pole; light gray

## 1.2 Optional Accessories

### 1.2.1 Ferrule

#### 1.2.1.1 Ferrule



**Item No.: 216-301**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-201**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white



**Item No.: 216-241**

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



**Item No.: 216-141**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-101**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-242**

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



**Item No.: 216-262**

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



**Item No.: 216-202**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-142**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-102**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored

### 1.2.2 Strain relief

#### 1.2.2.1 Strain relief plate



**Item No.: 734-426**

Strain relief plate; for female and male connectors; 1 part; Pin spacing 3.5 mm; light gray

### 1.2.3 Tool

#### 1.2.3.1 Operating tool



[Item No.: 734-190](#)

Combination operating tool; natural



[Item No.: 734-231](#)

Operating tool; black



[Item No.: 210-719](#)

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



[Item No.: 210-647](#)

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



[Item No.: 210-251](#)

Operating tool; for MCS MICRO and MINI with CAGE CLAMP® connection; yellow



[Item No.: 210-250](#)

Operating tool; for MCS MINI and MIDI with CAGE CLAMP® connection; red



[Item No.: 734-191](#)

Operating tool; made of insulating material; 1-way; loose; black

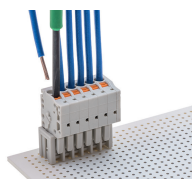


[Item No.: 734-230](#)

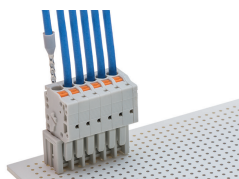
Operating tool; made of insulating material; 1-way; white

### Installation Notes

#### Conductor termination

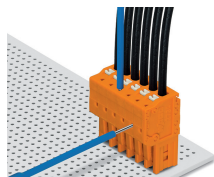


Conductor termination Inserting fine-stranded conductors into Push-in CAGE CLAMP® unit via push-buttons.



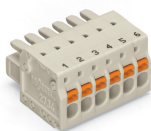
Push-in termination of solid conductors and fine-stranded conductors with ferrules

### Testing



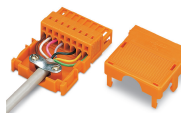
Testing via 1 mm Ø test pin (735-500). Push-in CAGE CLAMP® termination – parallel to conductor entry

### Marking



Labeling via direct marking or self-adhesive strips.

### Installation



Strain relief housing for 734 Series Male and Female Connectors with CAGE CLAMP® connection

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

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Current addresses can be found at: [www.wago.com](http://www.wago.com)