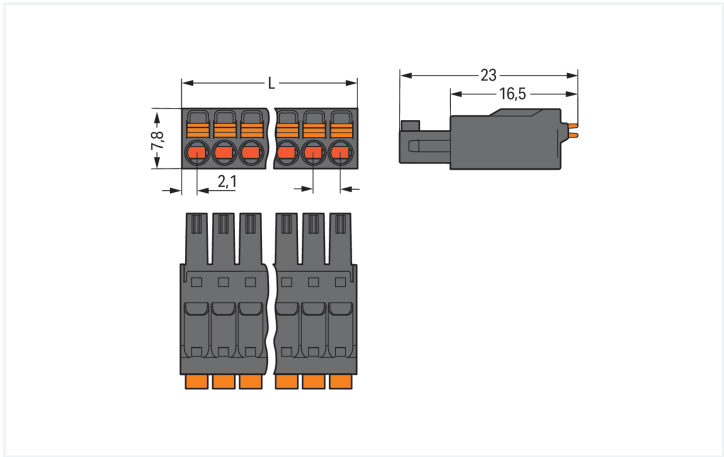




Color: ■ black



Dimensions in mm  
L = (pole no. – 1) x pin spacing + 4.2 mm

Female connector, 714 Series, push-button

Our female connector (item number 714-110) simplifies electrical installations. Strip lengths must be between 9 and 10 mm when connecting conductors to this female connector. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this connector delivers reliable performance. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. 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 (35.7 x 7.8 x 23) mm (width x height x depth). Depending on the type of conductor, this female connector is designed for conductor cross sections ranging from 0.2 mm² to 1.5 mm².

The contact surface is coated with tin.

Notes

Safety Information

Other pole numbers  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Variants:

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.

| Electrical data                 |        |                |        |               |       |         |   |
|---------------------------------|--------|----------------|--------|---------------|-------|---------|---|
| Ratings per                     |        | IEC/EN 60664-1 |        | Approvals per |       | UL 1059 |   |
| Overvoltage category            | III    | III            | II     | Use group     | B     | C       | D |
| Pollution degree                | 3      | 2              | 2      | Rated voltage | 150 V | -       | - |
| Nominal voltage                 | 160 V  | 160 V          | 320 V  | Rated current | 8 A   | -       | - |
| Rated impulse withstand voltage | 2.5 kV | 2.5 kV         | 2.5 kV |               |       |         |   |
| Rated current                   | 8 A    | 8 A            | 8 A    |               |       |         |   |



| Connection Data                                   |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
|---------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|----------------|-------------|-----------------------|---------------------------------------|-----------------|---------------------------------|-------------------------|---------------------------------|-------------------------------------------------|-------------------|---------------------------------------------------|------------------|--------------|------------------------------------|-------------|----|-----------------------------------------------|-----|
| Clamping units                                    | 10                                    | <div>Connection 1</div> <table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Push-button</td></tr><tr><td>Actuation direction 1</td><td>Operation parallel to conductor entry</td></tr><tr><td>Solid conductor</td><td>0.2 ... 1.5 mm² / 24 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.2 ... 1.5 mm² / 24 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.25 ... 0.75 mm²</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.25 ... 1.5 mm²</td></tr><tr><td>Strip length</td><td>9 ... 10 mm / 0.35 ... 0.39 inches</td></tr><tr><td>Pole number</td><td>10</td></tr><tr><td>Conductor entry direction to mating direction</td><td>0 °</td></tr></table> | Connection technology | Push-in CAGE CLAMP® | Actuation type | Push-button | Actuation direction 1 | Operation parallel to conductor entry | Solid conductor | 0.2 ... 1.5 mm² / 24 ... 16 AWG | Fine-stranded conductor | 0.2 ... 1.5 mm² / 24 ... 16 AWG | Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm² | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm² | Strip length | 9 ... 10 mm / 0.35 ... 0.39 inches | Pole number | 10 | Conductor entry direction to mating direction | 0 ° |
| Connection technology                             | Push-in CAGE CLAMP®                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Actuation type                                    | Push-button                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Actuation direction 1                             | Operation parallel to conductor entry |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Solid conductor                                   | 0.2 ... 1.5 mm² / 24 ... 16 AWG       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Fine-stranded conductor                           | 0.2 ... 1.5 mm² / 24 ... 16 AWG       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm²                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm²                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Pole number                                       | 10                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Conductor entry direction to mating direction     | 0 °                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Total number of potentials                        | 10                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Number of connection types                        | 1                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |
| Number of levels                                  | 1                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                     |                |             |                       |                                       |                 |                                 |                         |                                 |                                                 |                   |                                                   |                  |              |                                    |             |    |                                               |     |

| Physical data |                        |  |
|---------------|------------------------|--|
| Pin spacing   | 3.5 mm / 0.138 inches  |  |
| Width         | 35.7 mm / 1.406 inches |  |
| Height        | 7.8 mm / 0.307 inches  |  |
| Depth         | 23 mm / 0.906 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           |  |
| Mismating protection               | No                      |  |

| Material data                      |                                                                          |  |
|------------------------------------|--------------------------------------------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |  |
| Color                              | black                                                                    |  |
| 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                          | 0.072 MJ                                                                 |  |
| Weight                             | 5.8 g                                                                    |  |



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

| Commercial data       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 100 pcs                |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4045454858766          |
| 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 61984 | NTR NL-7604      |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984 | 2198681.01       |

| Downloads                                |  |
|------------------------------------------|--|
| Environmental Product Compliance         |  |
| Compliance Search                        |  |
| Environmental Product Compliance 714-110 |  |



Documentation

| Additional Information |            |                   |  |
|------------------------|------------|-------------------|--|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB |  |

CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 714-110 |

| CAE data             |
|----------------------|
| ZUKEN Portal 714-110 |

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



[Item No.: 714-170](#)  
THT male header; 0.8 x 0.8 mm solder pin;  
angled; Pin spacing 3.5 mm; 10-pole;  
black



[Item No.: 714-140](#)  
THT male header; 0.8 x 0.8 mm solder pin;  
straight; Pin spacing 3.5 mm; 10-pole;  
black

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



[Item No.: 216-241](#)  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-  
sulated; 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 mm² / 20 AWG; un-  
insulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 1/08.92



[Item No.: 216-242](#)  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-  
sulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 4/09.90; gray



[Item No.: 216-142](#)  
Ferrule; Sleeve for 0.75 mm² / 18 AWG;  
uninsulated; electro-tin plated; electroly-  
tic copper; gastight crimped; acc. to DIN  
46228, Part 1/08.92



[Item No.: 216-143](#)  
Ferrule; Sleeve for 1 mm² / AWG 18; unin-  
sulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 1/08.92



[Item No.: 216-144](#)  
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-  
insulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 1/08.92; silver-colored

1.2.2 Test and measurement

1.2.2.1 Testing accessories



[Item No.: 735-500](#)  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V  
DC; CAT0; 1 A; 6 mm uninsulated; Test lead  
for soldering up to 0,5mm²

1.2.3 Tool

1.2.3.1 Operating tool



Item No.: 210-719

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

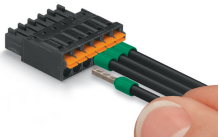


Item No.: 210-647

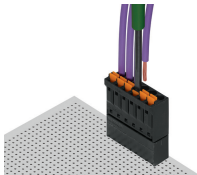
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination



Solid and ferruled conductors are terminated by simply pushing them into unit.



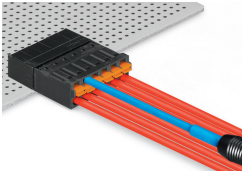
Inserting/removing fine-stranded conductors via push-button.

Coding



Coding a female connector by removing coding finger(s).

Testing



Testing via 1 mm Ø test pin – insertion parallel to conductor entry.

Marking



Pole marking via factory direct marking