

Data Sheet | Item Number: 713-1105/032-047

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm²; black

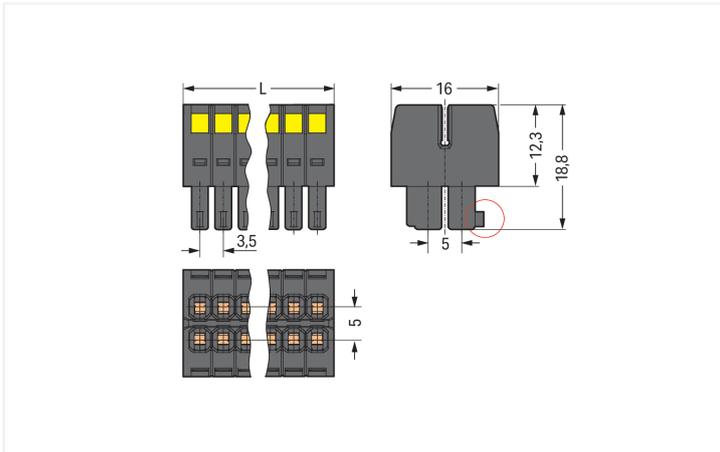
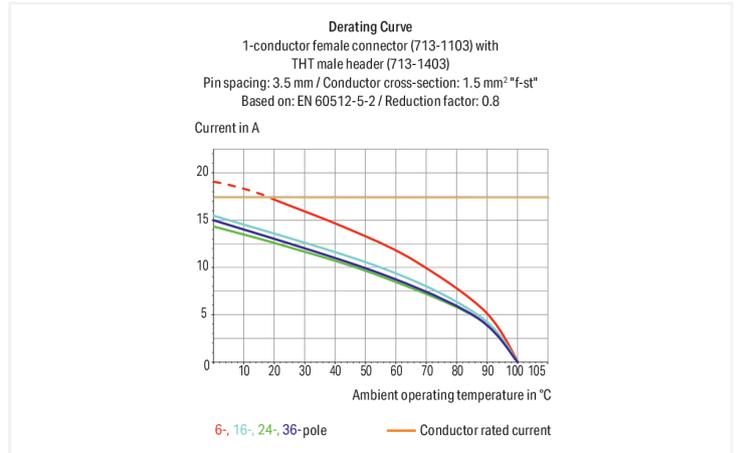


<https://www.wago.com/713-1105/032-047>



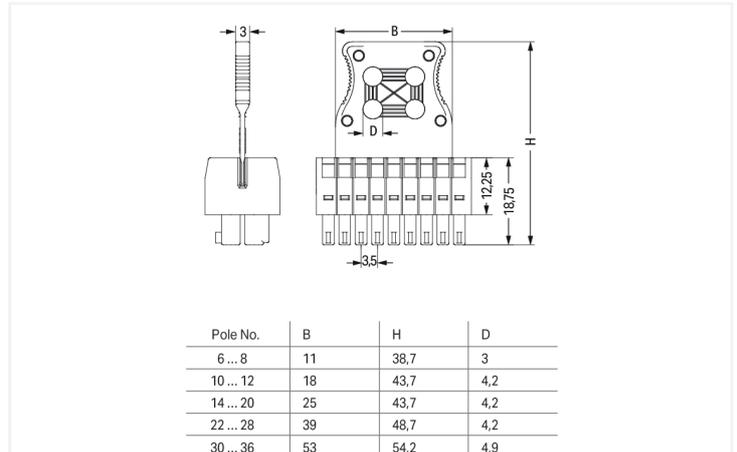
Color: ■ black

Similar to illustration



Dimensions in mm

$L = [(pole\ no./2) - 1] \times pin\ spacing + 5.2\ mm$ Coding finger (red circle)



Dimensions in mm

The arrangement of the attachments for cable ties allows single conductors or multi-core cables to be secured in different ways. The width of the cable ties must correspond to the hole dimensions of the strain relief plates shown above. Cable ties and binding tools are not offered by WAGO.

Female connector, 713 Series, CAGE CLAMP®

This female connector (item number 713-1105/032-047) simplifies electrical installations. Strip lengths must be between 6 and 7 mm when connecting conductors to this female connector. This product features one conductor terminal and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a dependable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The item's dimensions are (19 x 38.7 x 16) mm (width x height x depth). Depending on the type of conductor, this female connector is suitable for conductor cross sections ranging from 0.08 mm² to 1.5 mm².

The contact surface is coated with tin. The strain relief plate is a safety precaution for connected conductors that also makes wires much easier to handle.

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 | | |
|---------------------------------|--|----------------|--------|--------|---------------|-------|---------|---|--|
| Overvoltage category | | III | III | II | Use group | B | C | D | |
| Pollution degree | | 3 | 2 | 2 | Rated voltage | 300 V | 50 V | - | |
| Nominal voltage | | 80 V | 160 V | 250 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 | - | - |
| Rated current | | 10 A | - | - |

Connection Data

| | | | |
|----------------------------|----|---|--|
| Clamping units | 10 | Connection 1 | |
| Total number of potentials | 10 | Connection technology | CAGE CLAMP® |
| Number of connection types | 1 | Actuation type | Operating tool |
| Number of levels | 2 | Actuation direction 1 | Operation perpendicular to conductor entry |
| | | Solid conductor | 0.08 ... 1.5 mm ² / 28 ... 16 AWG |
| | | Fine-stranded conductor | 0.08 ... 1.5 mm ² / 28 ... 16 AWG |
| | | Fine-stranded conductor; with insulated ferrule | 0.25 ... 1 mm ² |
| | | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1 mm ² |
| | | Strip length | 6 ... 7 mm / 0.24 ... 0.28 inches |
| | | Pole number | 10 |
| | | Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 19.2 mm / 0.756 inches |
| Height | 16 mm / 0.63 inches |
| Depth | 38.7 mm / 1.524 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 | Yes |
| Strain relief | Strain relief plate |

Material data

| | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| Material group | II |
| Insulation material (main housing) | Glass fiber-reinforced polyamide (PA66 GF) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper alloy |
| Contact Plating | Tin |
| Fire load | 0.092 MJ |
| Weight | 5.6 g |

Environmental requirements

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

Commercial data

| | |
|-----------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4050821176756 |
| 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 | |
|---|--|
| REACH Candidate List Substance | Perfluorobutane sulfonic acid (PFBS) and its salts |
| RoHS Compliance Status | Compliant, No Exemption |
| SCIP notification number (Austria) | e851a55b-0ddc-450a-8c90-9110f4a836dd |
| SCIP notification number (Belgium) | 140b12ae-6b69-43eb-8bfa-98f7c7c1e6bb |
| SCIP notification number (Bulgaria) | 571766c6-5c00-4247-9598-7eb4e1cf16fc |
| SCIP notification number (Czech Republic) | fbf744e2-3e26-427d-b85f-5ec0a8624e94 |
| SCIP notification number (Denmark) | 2629561c-0405-46c5-b45b-68f1c118ab64 |
| SCIP notification number (Finland) | 8c05c38e-238b-4c59-b751-60b10420d8b9 |
| SCIP notification number (France) | c27b1108-9afb-4411-bab4-e658f8e8d810 |
| SCIP notification number (Germany) | d42043a0-4fac-43cc-a8b8-9c9ac6c5d697 |
| SCIP notification number (Hungary) | 42708fe1-70d3-41d3-a2af-857e73423270 |
| SCIP notification number (Italy) | f99ef706-4090-4a5a-95da-95b6b0d2d0a3 |
| SCIP notification number (Netherlands) | a846783b-cc75-4317-82af-048ab1b8d165 |
| SCIP notification number (Poland) | 188b42c1-8348-43ff-96c9-b72666240957 |
| SCIP notification number (Romania) | dfc6b223-43d2-461b-803e-57d47269fea8 |
| SCIP notification number (Sweden) | 2975287f-8cce-4452-b273-bdc03730eddc |

Approvals / Certificates

| General approvals | | | Declarations of conformity and manufacturer's declarations | | |
|---|-----------|---------------------------------|--|----------|------------------|
|    | | |  | | |
| Approval | Standard | Certificate Name | Approval | Standard | Certificate Name |
| CB DEKRA Certification B.V. | IEC 61984 | NL-102427 | Railway WAGO GmbH & Co. KG | - | Z00004422.000 |
| CSA CSA Group | C22.2 | 2315087 | | | |
| KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 71-133740 | | | |
| UL Underwriters Laboratories Inc. | UL 1059 | UL-US-L45172-6187124-22905991-1 | | | |

Downloads

| Environmental Product Compliance | |
|--|-------------------|
| Compliance Search | |
| Environmental Product Compliance 713-1105/032-047 | ↓ |

Documentation

| Additional Information | | | |
|------------------------|------------|-------------------|-------------------|
| Technical Section | 03.04.2019 | pdf 2027.26 KB | ↓ |

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



Item No.: 713-1425

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 10-pole; black

Item No.: 713-1405

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 10-pole; black

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



Item No.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored



Item No.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



Item No.: 216-132

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 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 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



Item No.: 216-221

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



Item No.: 216-141

Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



Item No.: 216-121

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



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.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored



Item No.: 216-122

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored



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.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



Item No.: 216-143

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



Item No.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

1.2.2 Stickers with operating instructions

1.2.2.1 Stickers with operating instructions



Item No.: 210-493

Stickers for operating instructions

1.2.3 Strain relief

1.2.3.1 Strain relief plate



Item No.: 713-130

Strain relief plate; for female connectors; 1 part; Pin spacing 3.5 mm; black

1.2.4 Tool

1.2.4.1 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

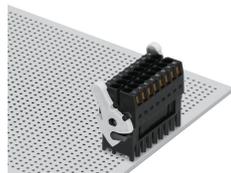
Installation Notes

Conductor termination

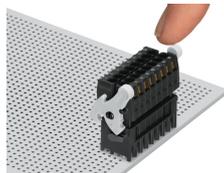


Inserting a conductor via (2.5 x 0.4) mm screwdriver.

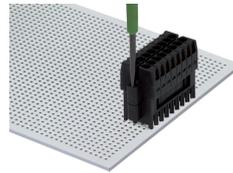
Locking system



Lever as a lock – when closed, female connector is locked.



Lever as a disconnection aid – when opened, female connector is disconnected. Rotating the lever lifts the female connector out of the male header.



Screw interlock can only be disconnected using a tool.

Coding



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

Strain relief



Strain relief plate for field assembly



Centered strain relief plate anchors conductors for easy disconnection.