

Data Sheet | Item Number: 713-1410/117-000

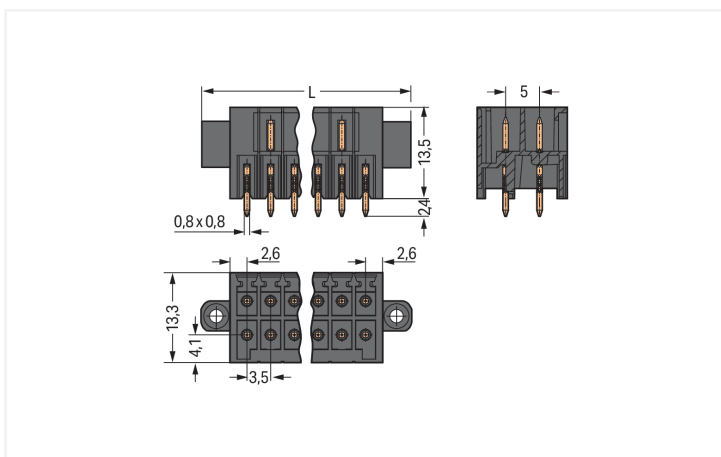
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 20-pole; black

<https://www.wago.com/713-1410/117-000>



Color: ■ black

Similar to illustration



Dimensions in mm

$L = [(pole\ no./2) - 1] \times pin\ spacing + 13.6\ mm$



Male connector, 713 Series, solder pin dimensions 0.8 x 0.8 mm

Our male connector (item number 713-1410/117-000) ensures effortless electrical installations. Dimensions: (45.1 x 15.9 x 13.3) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THR soldering.

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
Other solder pin lengths
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 | 150 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 | 150 V | - | - |
| Rated current | 12 A | - | - |

Connection Data

| | | | |
|----------------------------|----|---------------------|----|
| Total number of potentials | 20 | Connection 1 | |
| Number of connection types | 1 | Pole number | 20 |
| Number of levels | 2 | | |

Physical data

| | |
|------------------------------------|--------------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 45.1 mm / 1.776 inches |
| Height | 15.9 mm / 0.626 inches |
| Height from the surface | 13.5 mm / 0.531 inches |
| Depth | 13.3 mm / 0.524 inches |
| Solder pin length | 2.4 mm |
| Solder pin dimensions | 0.8 x 0.8 mm |
| Plated through-hole diameter (THR) | 1.3 ^(+0.1) mm |

Mechanical data

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

Plug-in connection

| | |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type) | for PCB |
| Mismating protection | Yes |
| Mating direction to the PCB | 90 ° |
| Locking of plug-in connection | Threaded flange |

PCB contact

| | |
|-------------------------------------|--|
| PCB contact | THR |
| Solder pin arrangement | over the entire male connector (in-line) |
| Number of solder pins per potential | 1 |

Material data

| | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| Material group | I |
| Insulation material (main housing) | Polyphthalamide (PPA GF) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact Plating | Tin |
| Fire load | 0.115 MJ |
| Weight | 5.7 g |
| MSL per J-STD 020D | 1 |

Environmental requirements

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

Commercial data

| | |
|-----------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| PU (SPU) | 20 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4050821156475 |
| Customs tariff number | 85366930000 |

Product Classification

| | |
|-------------|----------------------|
| UNSPSC | 39121409 |
| eCl@ss 10.0 | 27-44-04-02 |
| eCl@ss 9.0 | 27-44-04-02 |
| ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

| | |
|---|--------------------------------------|
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) |
| SCIP notification number (Austria) | ff03f8e7-bbd3-4b7e-a7f9-4e0a4478ebba |
| SCIP notification number (Belgium) | a7344f27-a707-4bd7-a3d9-bb243ba91337 |
| SCIP notification number (Bulgaria) | 13ac56a7-c5bc-4c32-adca-0d8afa7af63e |
| SCIP notification number (Czech Republic) | 53939b93-8874-493b-a8b1-0439feb69b9a |
| SCIP notification number (Denmark) | 4afd1150-c673-4ecd-9d27-50d4a8c832f3 |
| SCIP notification number (Finland) | 5337117c-ba1a-4ba9-a1e6-afe8c8dad0bf |
| SCIP notification number (France) | 75fe5369-4c9f-4ef5-ae93-a6872749e92e |
| SCIP notification number (Germany) | 7350b7f5-75b9-41fc-b7bf-3d8352ef7490 |
| SCIP notification number (Hungary) | cda4b1d3-d7e1-426c-960c-00c4c7d42b0d |
| SCIP notification number (Italy) | 894cb85e-4782-43fd-8698-8a6741894042 |
| SCIP notification number (Netherlands) | 9de1aae0-416e-41b3-a4eb-88363b395652 |
| SCIP notification number (Poland) | b89d6d18-fafa-43e5-814c-f7d1a2b0ea85 |
| SCIP notification number (Romania) | f341322f-405a-47bd-bc5f-edfc5862be85 |
| SCIP notification number (Sweden) | 6188d11c-2a1f-4b9f-aba0-6e5697b6600e |

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---------------------------------------|-----------|------------------|
| CB DEKRA Certification B.V. | IEC 61984 | NL-102427 |
| CSA CSA Group | C22.2 | 2315087 |
| KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 71-126089 |

Downloads

Environmental Product Compliance

| Compliance Search | |
|--|---|
| Environmental Product Compliance 713-1410/117-000 | ↓ |

Documentation

| Additional Information | | | |
|------------------------|------------|-------------------|---|
| Technical Section | 03.04.2019 | pdf 2027.26 KB | ↓ |
| | | pdf 535.32 KB | ↓ |

CAD/CAE-Data

CAD data

2D/3D Models
713-1410/117-000



CAE data

ZUKEN Portal
713-1410/117-000



PCB Design

Symbol and Footprint
via SamacSys
713-1410/117-000



Symbol and Footprint
via Ultra Librarian
713-1410/117-000



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: [713-1110/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; black

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding

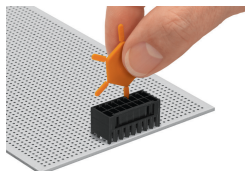


Item No.: [714-101](#)

Coding key; orange

Installation Notes

Coding



Coding a male header by inserting a coding pin.