

Data Sheet | Item Number: 713-1409/117-000

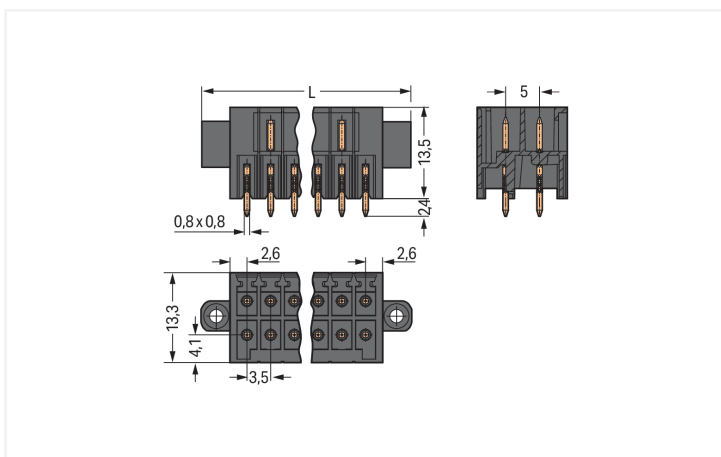
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 18-pole; black

<https://www.wago.com/713-1409/117-000>



Color: ■ black

Similar to illustration



Dimensions in mm

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



Male connector, 713 Series, black

Our male connector (item number 713-1409/117-000) ensures effortless electrical installations. The item's dimensions are (41.6 x 15.9 x 13.3) mm (width x height x depth).

Tin is used for coating the contact surfaces. 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 | 18 | Connection 1 | |
| Number of connection types | 1 | Pole number | 18 |
| Number of levels | 2 | | |

Physical data

| | |
|------------------------------------|--------------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 41.6 mm / 1.638 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 | 0.105 MJ |
| Weight | 5.2 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) | 25 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4050821156468 |
| 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) | 10b18860-ba82-418c-9a58-83dcc20d2ab2 |
| SCIP notification number (Belgium) | 0a2455cf-6d23-4e56-b806-061de6325290 |
| SCIP notification number (Bulgaria) | 6eb7bbc3-bfe8-4ba4-ae93-ecc981bd089a |
| SCIP notification number (Czech Republic) | 65598366-62da-4afb-95e3-ea0a037efabd |
| SCIP notification number (Denmark) | 0b58e23a-debe-428e-8da9-f84c128e8bc9 |
| SCIP notification number (Finland) | ead02d3b-8003-4c20-be6e-79b9dccc0 |
| SCIP notification number (France) | 6227f500-9046-4245-9083-4bd1bd756434 |
| SCIP notification number (Germany) | 2b2d29ea-1ec2-4344-bb46-cb8c270bb381 |
| SCIP notification number (Hungary) | 38209fe1-7e80-4069-9f74-6e02d8cdf84a |
| SCIP notification number (Italy) | 3e265bcc-85a4-431a-aeae-4ff4ef71eef7 |
| SCIP notification number (Netherlands) | 5e171ae3-5402-4620-9753-7c52c36a5d74 |
| SCIP notification number (Poland) | 58531386-cccf-4aca-b9b4-a4d276abb3c8 |
| SCIP notification number (Romania) | 5b0579cf-b663-4879-8b05-baf11f132b87 |
| SCIP notification number (Sweden) | 1e0e979a-969b-4214-9c3f-c2f2df6cc164 |

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 | 71-133740 |

Downloads

Environmental Product Compliance

| Compliance Search | |
|--|---|
| Environmental Product Compliance 713-1409/117-000 | ↓ |

Documentation

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

CAD/CAE-Data

CAD data

2D/3D Models
713-1409/117-000



CAE data

ZUKEN Portal
713-1409/117-000



PCB Design

Symbol and Footprint
via SamacSys
713-1409/117-000



Symbol and Footprint
via Ultra Librarian
713-1409/117-000



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: [713-1109/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; Screw flange; black

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding

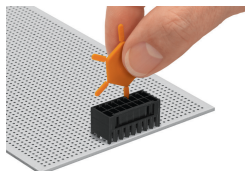


Item No.: [714-101](#)

Coding key; orange

Installation Notes

Coding



Coding a male header by inserting a coding pin.