

## Data Sheet | Item Number: 713-1423/117-000

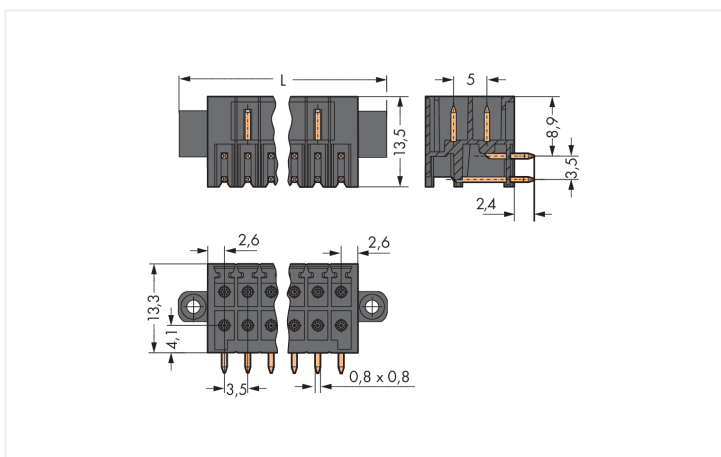
THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 6-pole; black

<https://www.wago.com/713-1423/117-000>



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

Error-free electrical installations are guaranteed with this male connector (item number 713-1423/117-000). Dimensions: (20.6 x 15.7 x 13.5) 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 | 6 | <b>Connection 1</b> |   |
| Number of connection types | 1 | Pole number         | 6 |
| Number of levels           | 2 |                     |   |

## Physical data

|                                    |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 3.5 mm / 0.138 inches    |
| Width                              | 20.6 mm / 0.811 inches   |
| Height                             | 15.9 mm / 0.626 inches   |
| Height from the surface            | 13.3 mm / 0.524 inches   |
| Depth                              | 13.5 mm / 0.531 inches   |
| Solder pin length                  | 2.4 mm                   |
| Solder pin dimensions              | 0.8 x 0.8 mm             |
| Plated through-hole diameter (THR) | 1.3 <sup>(+0.1)</sup> 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        | 0°                  |
| 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)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | black  |
| Material group                     | I  |
| Insulation material (main housing) | Polyphthalamide (PPA GF)   |
| Flammability class per UL94        | V0   |
| Contact material                   | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.047 MJ   |
| Weight                             | 2.6 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)              | 50 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4050821156567          |
| 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)        | 2357d038-9666-4854-a6de-11093b2cdbc2 |
| SCIP notification number (Belgium)        | d95d7944-1943-459b-95e8-d4700e4bb2bc |
| SCIP notification number (Bulgaria)       | 1b5db552-4da0-4680-a6dc-7e546c473cc9 |
| SCIP notification number (Czech Republic) | 9ef09be1-762c-4864-92a9-74093319bd16 |
| SCIP notification number (Denmark)        | 75731702-0044-47f0-8930-0a72f883d0a7 |
| SCIP notification number (Finland)        | d557e854-a354-49be-b07b-19149f504cd1 |
| SCIP notification number (France)         | b7fea405-c4f6-43f2-ae4a-7a0795793c32 |
| SCIP notification number (Germany)        | 98b73b2f-3dfe-4d41-913d-83ed438c559d |
| SCIP notification number (Hungary)        | a9e5f635-afe7-49ca-8837-87e670b5757c |
| SCIP notification number (Italy)          | 410a247e-33c1-4f27-bd88-909d1030d86b |
| SCIP notification number (Netherlands)    | a1d60777-1d31-4b09-abe5-5287d84aa395 |
| SCIP notification number (Poland)         | 29ddcc4b-e5ed-4752-909b-7b2971134164 |
| SCIP notification number (Romania)        | 899a0fd5-b069-4afd-907b-21562c76ffb0 |
| SCIP notification number (Sweden)         | 443c474a-53e9-4d7b-b197-20dc3fc27ab0 |

## Approvals / Certificates

### General approvals



| Approval                              | Standard  | Certificate Name |
|---------------------------------------|-----------|------------------|
| CB<br>DEKRA Certification B.V.        | IEC 61984 | NL-102427        |
| CSA<br>CSA Group                      | C22.2     | 2315087          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984  | 71-133740        |

## Downloads

### Environmental Product Compliance

#### Compliance Search

|  |   |
|--|---|
| Environmental Product Compliance<br>713-1423/117-000 | ↓ |
|--|---|

## Documentation

### Additional Information

|                   |            |                   |   |
|-------------------|------------|-------------------|---|
| Technical Section | 03.04.2019 | pdf<br>2027.26 KB | ↓ |
|                   |            | pdf<br>535.32 KB  | ↓ |

## CAD/CAE-Data

### CAD data

2D/3D Models  
713-1423/117-000



### CAE data

ZUKEN Portal  
713-1423/117-000



## PCB Design

Symbol and Footprint  
via SamacSys  
713-1423/117-000



Symbol and Footprint  
via Ultra Librarian  
713-1423/117-000



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



#### Item No.: [713-1103/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

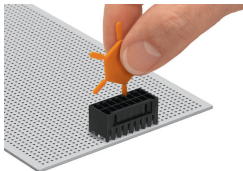


#### Item No.: [714-101](#)

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.