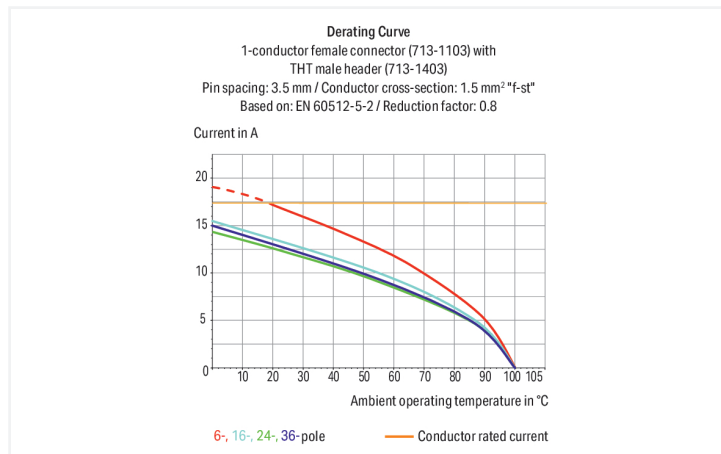


# Data Sheet | Item Number: 713-1403/116-000

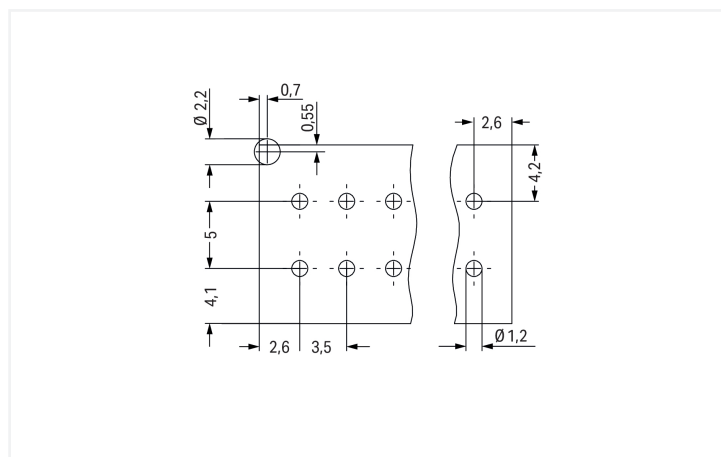
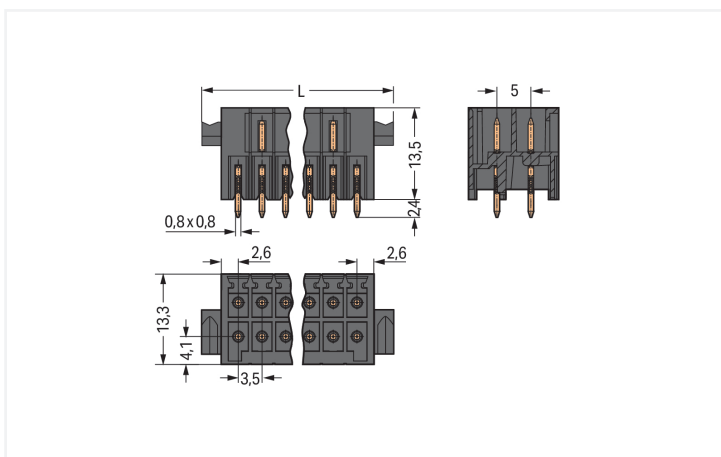
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Levers; Pin spacing 3.5 mm; 6-pole; black

<https://www.wago.com/713-1403/116-000>



Color: ■ black

Similar to illustration



Dimensions in mm

$L = [(pole\ no./2) - 1] \times pin\ spacing + 11.6\ mm$

Male connector, 713 Series, with 3.5 mm pin spacing

Our male connector (item number 713-1403/116-000) ensures effortless electrical installations. The dimensions are (18.6 x 15.9 x 13.3) mm (width x height x depth).

Tin is used for coating the contact surfaces. THR is used to assemble the pcb connector.

## 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                              | 18.6 mm / 0.732 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 <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             |
| Mismatching protection             | Yes                 |
| Mating direction to the PCB        | 90 °                |
| Locking of plug-in connection      | Locking lever       |

### 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                          | 0.044 MJ   |
| Weight                             | 1.9 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                  | 4050821157250          |
| 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, No Exemption

**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>713-1403/116-000 | ↓ |
|--|---|

**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<br>713-1403/116-000 | ↓ |
|----------------------------------|---|

CAE data

|                                  |   |
|----------------------------------|---|
| ZUKEN Portal<br>713-1403/116-000 | ↓ |
|----------------------------------|---|

PCB Design

|   |   |
|---|---|
| Symbol and Footprint<br>via SamacSys<br>713-1403/116-000        | ↓ |
| Symbol and Footprint<br>via Ultra Librarian<br>713-1403/116-000 | ↓ |

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



**Item No.: 713-1103/037-000**

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



**Item No.: 713-1103/037-047**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; Levers; direct marking; black



**Item No.: 713-1103/037-9037**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; Levers; direct marking; black



**Item No.: 713-1103/037-047/032-000**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; Levers; Strain relief plate; direct marking; black



**Item No.: 713-1103/037-9037/032-000**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; Levers; Strain relief plate; direct marking; 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.