

## Data Sheet | Item Number: 713-1430

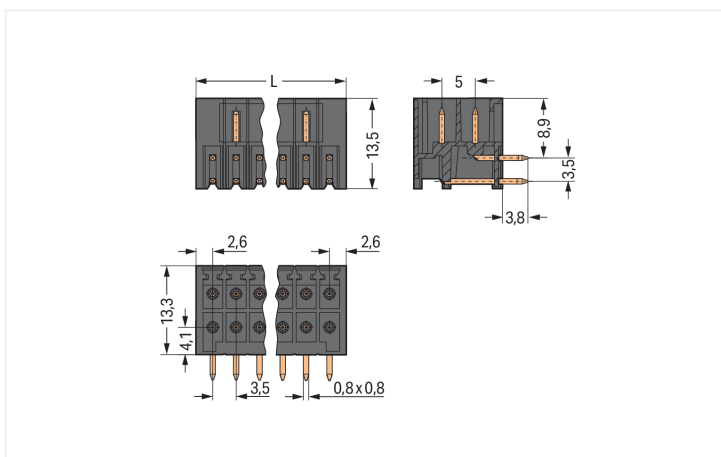
THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 20-pole; black

<https://www.wago.com/713-1430>



Color: ■ black

Similar to illustration



Dimensions in mm

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



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

Our male connector (item number 713-1430) is designed for seamless electrical installations. The item's dimensions are (36.5 x 17.1 x 13.5) mm (width x height x depth).

Tin is used for coating the contact surfaces. The pcb connector is designed for THT 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 | <b>Connection 1</b> |    |
| Number of connection types | 1  | Pole number         | 20 |
| Number of levels           | 2  |                     |    |

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 3.5 mm / 0.138 inches    |
| Width                                | 36.5 mm / 1.437 inches   |
| Height                               | 17.1 mm / 0.673 inches   |
| Height from the surface              | 13.3 mm / 0.524 inches   |
| Depth                                | 13.5 mm / 0.531 inches   |
| Solder pin length                    | 3.8 mm                   |
| Solder pin dimensions                | 0.8 x 0.8 mm             |
| Drilled hole diameter with tolerance | 1.2 <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°                  |

### PCB contact

|                                     |  |
|-------------------------------------|--|
| PCB contact                         | THT                                      |
| 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                          | 0.108 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)              | 25 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4045454700218          |
| 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 713-1430 | <a href="#">↓</a> |

### Documentation

| Additional Information |            |                   |                   |
|------------------------|------------|-------------------|-------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | <a href="#">↓</a> |

### CAD/CAE-Data

| CAD data                 |                   |
|--------------------------|-------------------|
| 2D/3D Models<br>713-1430 | <a href="#">↓</a> |

| CAE data                 |                   |
|--------------------------|-------------------|
| ZUKEN Portal<br>713-1430 | <a href="#">↓</a> |

#### PCB Design

|   |                   |
|---|-------------------|
| Symbol and Footprint<br>via SamacSys<br>713-1430        | <a href="#">↓</a> |
| Symbol and Footprint<br>via Ultra Librarian<br>713-1430 | <a href="#">↓</a> |

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



**Item No.: 713-1110**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; black



**Item No.: 713-1110/000-9037**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; direct marking; 1,50 mm<sup>2</sup>; black



**Item No.: 713-1110/000-047**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; direct marking; black



**Item No.: 713-1110/033-047**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Strain relief plate; direct marking; black



**Item No.: 713-1110/033-9037**

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Strain relief plate; direct marking; black

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

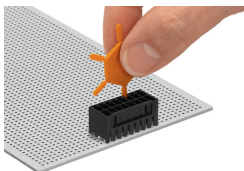


**Item No.: 714-101**

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.