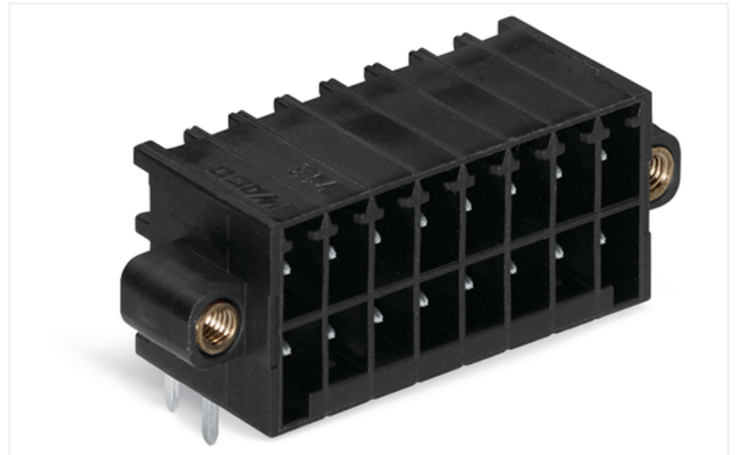


**Data Sheet | Item Number: 713-1437/117-000/997-409**

THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 34-pole; black

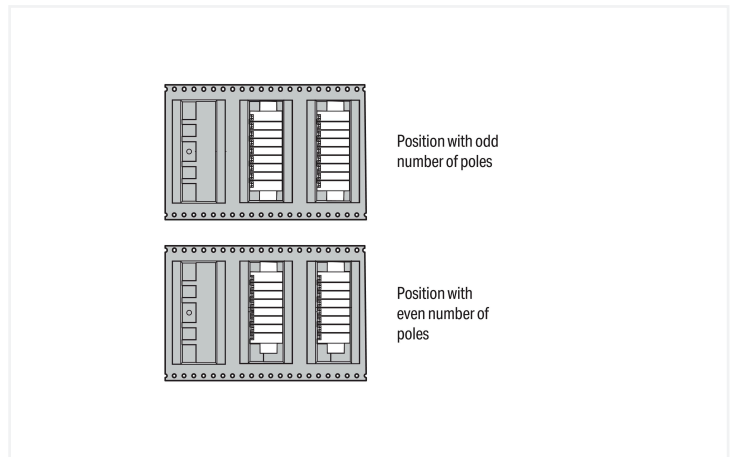
<https://www.wago.com/713-1437/117-000/997-409>



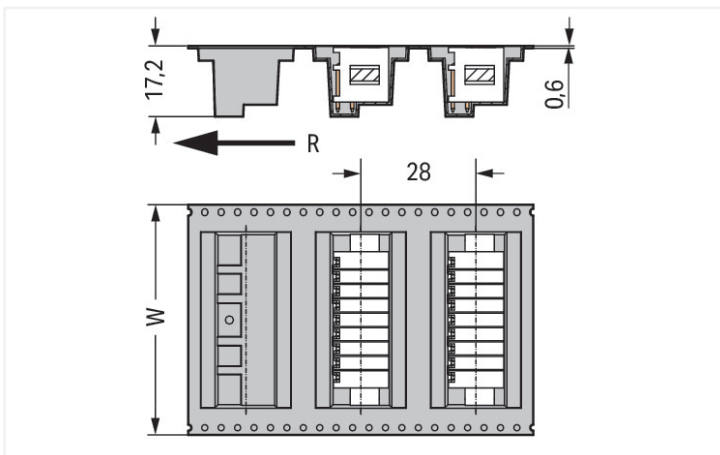
Color: ■ black

Similar to illustration

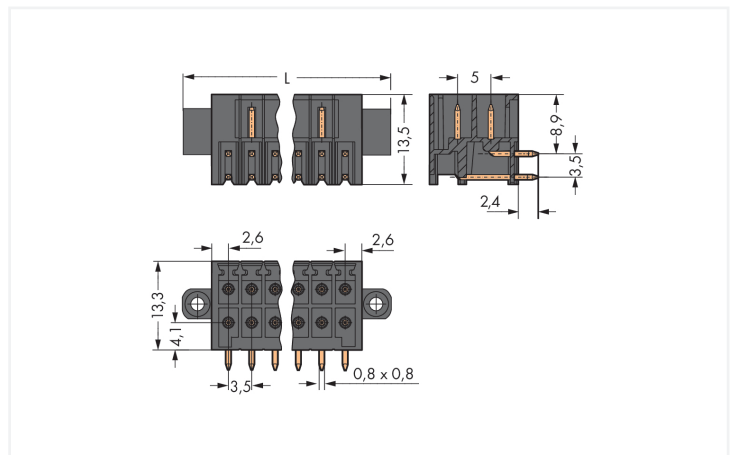
Similar to illustration



Dimensions in mm  
 Pin position in tape-and-reel packaging



Dimensions in mm  
 W = tape width R = feed direction



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

This male connector (item number 713-1437/117-000/997-409) provides hassle-free electrical installations. The dimensions are (69.6 x 15.7 x 13.5) 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<br>Other solder pin lengths<br>Gold-plated or partially gold-plated contact surfaces<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .   |

### 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 | 34 | <b>Connection 1</b> |    |
| Number of connection types | 1  | Pole number         | 34 |
| Number of levels           | 2  |                     |    |

### Physical data

|  |                        |
|--|------------------------|
| Pin spacing                              | 3.5 mm / 0.138 inches  |
| Width                                    | 69.6 mm / 2.74 inches  |
| Height                                   | 15.7 mm / 0.618 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 (+0.1) mm          |
| Reel diameter of tape-and-reel packaging | 330 mm                 |
| Tape width                               | 88 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 MJ   |
| Weight                             | 10.5 g   |
| MSL per J-STD 020D                 | 1  |

### Environmental requirements

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

### Commercial data

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 120 pcs       |
| Packaging type        | Bag           |
| Country of origin     | DE            |
| GTIN                  | 4055143778909 |
| 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)        | 059f8040-7b5c-4eea-b7de-a3ebef2d8ffd |
| SCIP notification number (Belgium)        | b1e973b8-83d9-4088-90b2-9bb8a59980fd |
| SCIP notification number (Bulgaria)       | 4b449cec-a915-4135-bc48-aca352346eca |
| SCIP notification number (Czech Republic) | a37d978e-a727-45c0-a4bc-02dd0c1a9eac |
| SCIP notification number (Denmark)        | 412c9b52-2c04-4e68-be95-8dcbf1e17cf6 |
| SCIP notification number (Finland)        | 0624c93c-ff73-457c-a7b1-a2a911af5649 |
| SCIP notification number (France)         | fec57990-a7d9-4183-9eea-ff8a9cb94580 |
| SCIP notification number (Germany)        | 596eb4dc-0ff6-4bc0-9b07-6f0cee51acbf |
| SCIP notification number (Hungary)        | 071cddf0-c23b-4c11-9ee5-0285e2ce68a9 |
| SCIP notification number (Italy)          | ba0e42ac-7cd1-4dca-bb73-6aa4a52924de |
| SCIP notification number (Netherlands)    | 6537dc81-20ce-4d41-9892-bfb89ac3cc8c |
| SCIP notification number (Poland)         | 6ea6eaea-a311-4da3-a1dd-86bb2b863294 |
| SCIP notification number (Romania)        | 1ef19992-7f63-4221-81e7-fe5783b237fb |
| SCIP notification number (Sweden)         | b973bf8e-5653-482a-95dd-0810ef5aca7e |

**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**



**Documentation**

**Additional Information**

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

### CAD/CAE-Data

CAD data

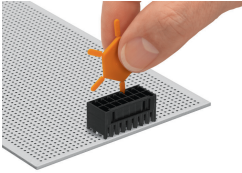


PCB Design



### Installation Notes

#### Coding



Coding a male header by inserting a coding pin.