

# Data Sheet | Item Number: 713-1414/117-000

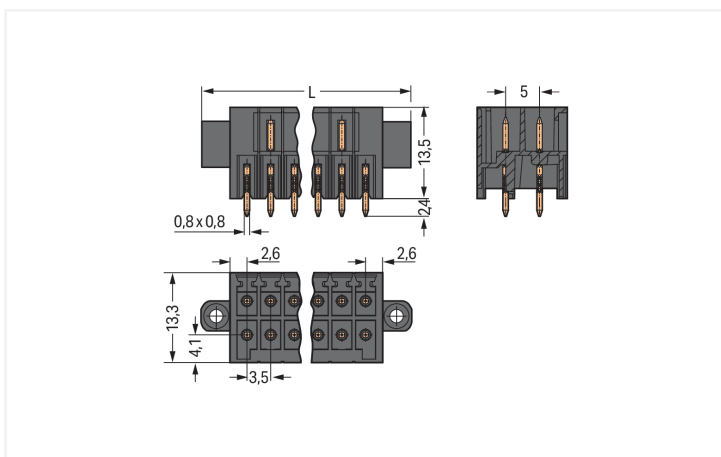
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 28-pole; black

<https://www.wago.com/713-1414/117-000>



Color: ■ black

Similar to illustration



Dimensions in mm

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



Male connector, 713 Series, with 3.5 mm pin spacing

This male connector (item number 713-1414/117-000) simplifies electrical installations. The item's dimensions are (59.1 x 15.9 x 13.3) mm (width x height x depth).

The contact surface is coated with tin. THR is used to solder 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 | 28 | <b>Connection 1</b> |    |
| Number of connection types | 1  | Pole number         | 28 |
| Number of levels           | 2  |                     |    |

## Physical data

|                                    |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 3.5 mm / 0.138 inches    |
| Width                              | 59.1 mm / 2.327 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      | 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                          | 0.154 MJ   |
| Weight                             | 7.6 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)              | 20 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4050821156512          |
| 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)        | 1a292f1b-cae1-4809-8a9f-5b5c080abdaf |
| SCIP notification number (Belgium)        | e5c5d481-2d02-4b37-b908-edab28bf0ea3 |
| SCIP notification number (Bulgaria)       | 4b10279b-bd9a-4256-becf-ecfdcc2201fa |
| SCIP notification number (Czech Republic) | 6eaf5a66-e7dd-4cf9-a08a-d314829d1896 |
| SCIP notification number (Denmark)        | d5a1a31a-04ce-4ee1-8bd8-5a7d4d58cc5b |
| SCIP notification number (Finland)        | 03e7ff85-7237-42f5-8268-7d042457c7ca |
| SCIP notification number (France)         | ec56fb76-4e21-4e7f-b577-8ed5177c360b |
| SCIP notification number (Germany)        | 85c91d66-bb4c-4287-9b88-890129c173a1 |
| SCIP notification number (Hungary)        | d549980e-ac35-49ea-955e-44787364074f |
| SCIP notification number (Italy)          | 3d377c13-819c-4b60-b966-07ce83f4ff6c |
| SCIP notification number (Netherlands)    | 82ad3b54-6ad6-44cd-b3db-d1c0e3f29652 |
| SCIP notification number (Poland)         | dd9eb9d7-41b9-4e6a-9599-227b2bfd1ef1 |
| SCIP notification number (Romania)        | ca9235ef-771d-4621-833a-4430d92f351a |
| SCIP notification number (Sweden)         | 0fda162a-9dfe-4cf2-8353-4d09d31dc76f |

### 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  | 71-126089        |

### Downloads

#### Environmental Product Compliance

| Compliance Search                                    |                   |
|--|-------------------|
| Environmental Product Compliance<br>713-1414/117-000 | <a href="#">↓</a> |

### Documentation

| Additional Information |            |                   |                   |
|------------------------|------------|-------------------|-------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | <a href="#">↓</a> |
|                        |            | pdf<br>535.32 KB  | <a href="#">↓</a> |

## CAD/CAE-Data

## CAD data

2D/3D Models  
713-1414/117-000

## CAE data

ZUKEN Portal  
713-1414/117-000

## PCB Design

Symbol and Footprint  
via SamacSys  
713-1414/117-000Symbol and Footprint  
via Ultra Librarian  
713-1414/117-000

## 1 Compatible Products

## 1.1 System counterpart

## 1.1.1 Female connector/socket

Item No.: [713-1114/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 28-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

## 1.2.1 Coding

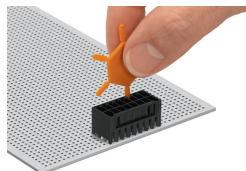
## 1.2.1.1 Coding

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

Coding key; orange

## Installation Notes

## Coding



Coding a male header by inserting a coding pin.