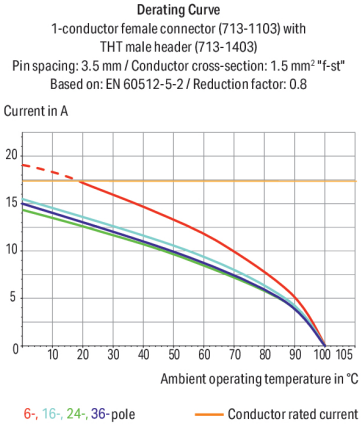
# Data Sheet | Item Number: 713-1424/105-000

THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mis-mating; Pin spacing 3.5 mm; 8-pole; black

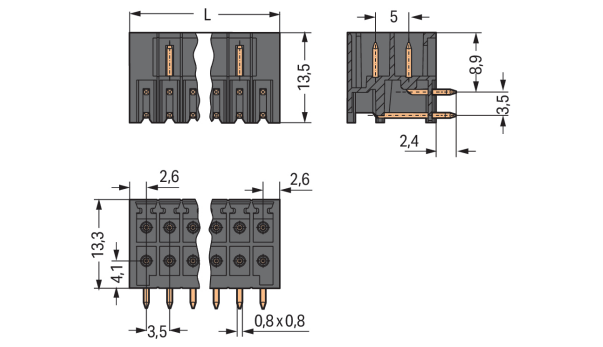
https://www.wago.com/713-1424/105-000

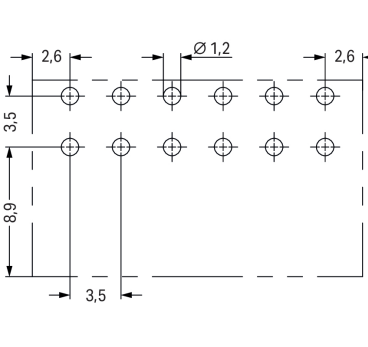





Color: ■ black

Similar to illustration




Dimensions in mm
L = [(pole no./2) – 1] x pin spacing + 5.2 mm

Male connector, 713 Series, with 3.5 mm pin spacing

Enjoy seamless electrical installations with this male connector (item number 713-1424/105-000). The dimensions are (15.5 x 15.7 x 13.5) 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<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 https://configurator.wago.com/. |

## Electrical data

| Ratings per | IEC/EN 60664-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 80 V | 160 V | 250 V |
| Rated impulse withstand voltage | 2.5 kV | 2.5 kV | 2.5 kV |
| Rated current | 10 A | 10 A | 10 A |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 150 V | 50 V | - |
| Rated current | 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 | 8 |
| Number of connection types | 1 |
| Number of levels | 2 |

### Connection 1

| | |
|---|---|
| Pole number | 8 |

## Physical data

| | |
|---|---|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 15.5 mm / 0.61 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 |

## Mechanical data

| | |
|---|---|
| Variable coding | Yes |
| Anti-rotation protection | Yes |


Continued on next page

## 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 | THR |
| Solder pin arrangement | over the entire male connector (in-line) |
| Number of solder pins per potential | 1 |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| Material group | I |
| Insulation material (main housing) | Polyphthalamide (PPA GF) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact Plating | Tin |
| Fire load | 0.023 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 | 4050821156093 |
| 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 |


Continued on next page

## 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
713-1424/105-000

### 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
713-1424/105-000

**CAE data**

ZUKEN Portal
713-1424/105-000

**PCB Design**

Symbol and Footprint via SamacSys
713-1424/105-000

Symbol and Footprint via Ultra Librarian
713-1424/105-000


Continued on next page

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



Item No.: 713-1104
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismating; black

### 1.2 Optional Accessories

#### 1.2.1 Coding

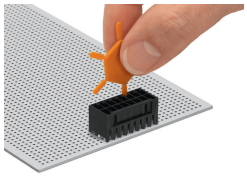
##### 1.2.1.1 Coding



Item No.: 714-101
Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.