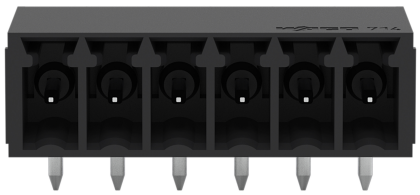
# Data Sheet | Item Number: 714-166

THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 6-pole; black

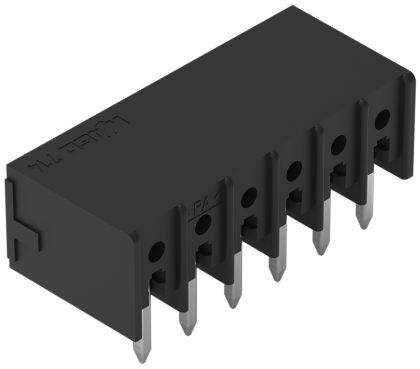
https://www.wago.com/714-166



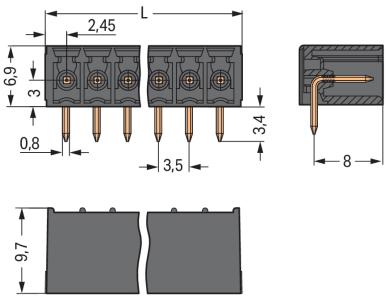


Color: ■ black

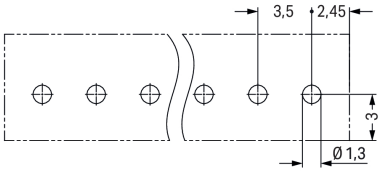









Dimensions in mm
L = (pole no. – 1) x pin spacing + 4.9 mm




Male connector, 714 Series, with 3.5 mm pin spacing

This male connector (item number 714-166) simplifies electrical installations. The item's dimensions are (22.4 x 10.3 x 9.7) 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<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 | 160 V | 160 V | 320 V |
| Rated impulse withstand voltage | 2.5 kV | 2.5 kV | 2.5 kV |
| Rated current | 8 A | 8 A | 8 A |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 150 V | - | - |
| Rated current | 8 A | - | - |

## Connection Data

| | |
|---|---|
| Total number of potentials | 6 |
| Number of connection types | 1 |
| Number of levels | 1 |

### Connection 1

| | |
|---|---|
| Pole number | 6 |

## Physical data

| | |
|---|---|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 22.4 mm / 0.882 inches |
| Height | 10.3 mm / 0.406 inches |
| Height from the surface | 6.9 mm / 0.272 inches |
| Depth | 9.7 mm / 0.382 inches |
| Solder pin length | 3.4 mm |
| Solder pin dimensions | 0.8 x 0.8 mm |
| Drilled hole diameter | 1.2 $^{(+0.1)}$ 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 | No |
| 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) | 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 | 0.013 MJ |
| Weight | 1.3 g |

## Environmental requirements

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

## Commercial data

| | |
|---|---|
| Product Group | 3 (Multi Conn. System) |
| PU (SPU) | 200 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4045454859190 |
| Customs tariff number | 85366930000 |


Continued on next page

## Product Classification

| | |
|---|---|
| UNSPSC | 39121409 |
| eCl@ss 10.0 | 27-44-04-02 |
| eCl@ss 9.0 | 27-44-04-01 |
| 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 |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 61984 | NTR NL-7604 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984 | 2198681.01 |
| UL<br>Underwriters Laboratories Inc. | UL 1059 | UL-US-L45172-6187124-1 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 714-166

### Documentation

**Additional Information**

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

## CAD/CAE-Data

**CAD data**

2D/3D Models 714-166

**CAE data**

ZUKEN Portal 714-166


Continued on next page

| PCB Design | |
|---|---|
| Symbol and Footprint via SamacSys 714-166 | |
| Symbol and Footprint via Ultra Librarian 714-166 | |

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



Item No.: 714-106
1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; black



Item No.: 714-106/000-047
1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; direct marking; 1,50 mm²; black

### 1.2 Optional Accessories

#### 1.2.1 Coding

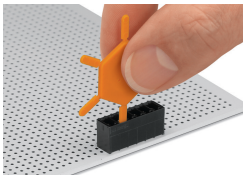
##### 1.2.1.1 Coding



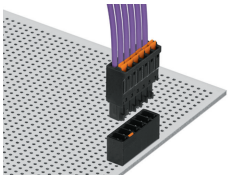
Item No.: 714-101
Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.



Coded connectors