# Data Sheet | Item Number: 734-407

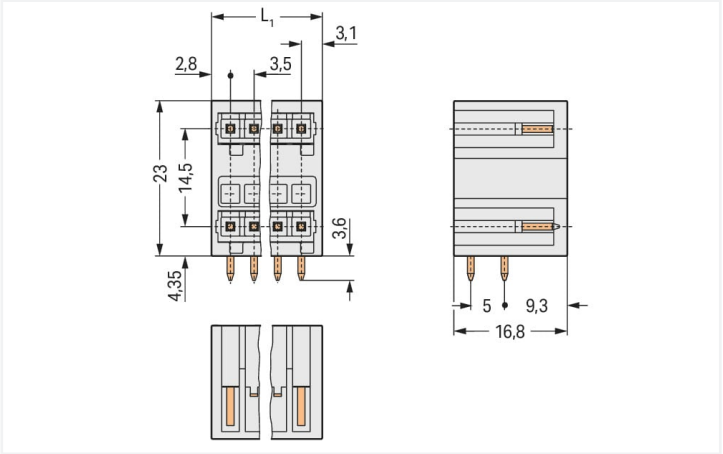
THT double-deck male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 3.5 mm; 14-pole; light gray

https://www.wago.com/734-407

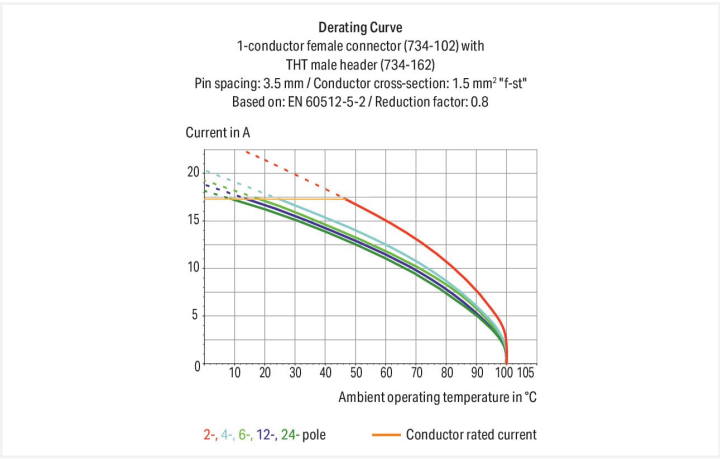


Color: light gray

Similar to illustration




Dimensions in mm
L1 = (pole no./2 – 1) x pin spacing + 5.9 mm




- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismating; only mating halves with the same number of poles can be connected together
- Coding option available

## 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>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 | 160 V | 160 V | 320 V |
| Rated surge 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 | 300 V | - | 300 V |
| Rated current | 10 A | - | 10 A |

| Approvals per | CSA | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 10 A | - | 10 A |

## Connection data

| | |
|---|---|
| Total number of potentials | 14 |
| Number of connection types | 1 |
| Number of levels | 2 |

### Connection 1

| | |
|---|---|
| Pole number | 14 |

## Physical data

| | |
|---|---|
| Pin spacing | 3.5 mm / 0.138 inches |
| Width | 26.9 mm / 1.059 inches |
| Height | 26.6 mm / 1.047 inches |
| Height from the surface | 23 mm / 0.906 inches |
| Depth | 16.8 mm / 0.661 inches |
| Solder pin length | 3.6 mm |
| Solder pin dimensions | 1 x 1 mm |
| Drilled hole diameter with tolerance | 1.4 $^{(+0.1)}$ 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 | 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="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color | light gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact plating | Tin |
| Fire load | 0.139 MJ |
| Weight | 7.9 g |


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## Environmental requirements

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

## Commercial data

| | |
|---|---|
| Product Group | 3 (Multi Conn. System) |
| eCl@ss 10.0 | 27-44-04-02 |
| eCl@ss 9.0 | 27-44-04-02 |
| ETIM 8.0 | EC002637 |
| ETIM 7.0 | EC002637 |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4044918872935 |
| Customs tariff number | 85366930000 |

## 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 | 2169534.02 |
| CCA<br>DEKRA Certification B.V. | EN 61984 | nl-54190 |
| UL<br>Underwriters Laboratories Inc. | UL 1977 | E 45171 |

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | - | 19-HG1869876-PDA |
| DNV<br>DNV GL SE | - | TAE000016Z |
| LR<br>Lloyds Register | IEC 61984 | 96/20035 (E5) |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 734-407

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## Documentation

### Additional Information

| | | |
|---|---|---|
| Technical Section | 03.04.2019 | pdf<br>2010.85 KB |

## CAD/CAE-Data

### CAD data

2D/3D Models 734-407

### CAE data

EPLAN Data Portal
734-407

ZUKEN Portal 734-407

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



Item No.: 734-107
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 7-pole; 100% protected against mismating; 1,50 mm²; light gray

### 1.2 Optional Accessories

#### 1.2.1 Coding

##### 1.2.1.1 Coding



Item No.: 734-400
Coding key; to be snapped above bottom level; light gray



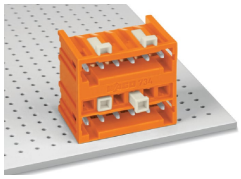
Item No.: 734-159
Coding key; to be snapped above top level; black



Item No.: 734-130
Coding key; to be snapped above top level; white

## Installation Notes

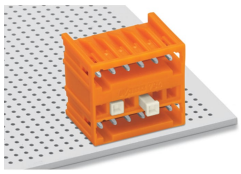
### Coding



Coding a THT double-deck male header.


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## Coding



Coding a THT double-deck male header – lower level.