

## Data sheet | Item number: 734-270

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.81 mm; 10-pole; orange

[www.wago.com/734-270](http://www.wago.com/734-270)



RoHS  
Compliant

BOMcheck.net

Color: ■

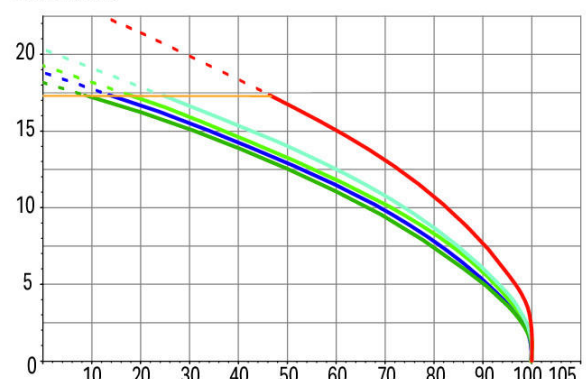
### Derating Curve

1-conductor female connector (734-102) with  
THT male header (734-162)

Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"

Based on: EN 60512-5-2 / Reduction factor: 0.8

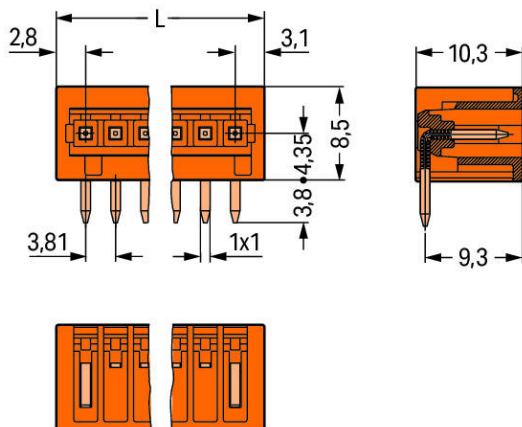
Current in A



Ambient operating temperature in °C

2-, 4-, 6-, 12-, 24- pole

— Conductor rated current



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$



## Item description

- 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 via coding fingers

## Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 160 V  |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 10 A   |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A  |
| Rated voltage UL (Use Group D) | 300 V |

#### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                            |    |
|----------------------------|----|
| Total number of potentials | 10 |
| Number of connection types | 1  |
| Number of levels           | 1  |
| No. of poles               | 10 |



## Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 3.81 mm / 0.15 inch            |
| Width                             | 40.19 mm / 1.582 inch          |
| Height                            | 12.3 mm / 0.484 inch           |
| Height from the surface           | 8.5 mm / 0.335 inch            |
| Depth                             | 10.3 mm / 0.406 inch           |
| Solder pin length                 | 3.8 mm                         |
| Solder pin dimensions             | 1 x 1 mm                       |
| Drilled hole diameter (tolerance) | 1.4 <sup>(- ... +0.1)</sup> mm |

## Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for PCBs            |
| 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

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | orange                                 |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.041 MJ                               |
| Weight                      | 2.7 g                                  |

## Environmental Requirements

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

## Commercial data

|                    |                        |
|--------------------|------------------------|
| Product Group      | 3 (Multi Conn. System) |
| Country of origin  | DE                     |
| GTIN               | 4044918872645          |
| Customs Tariff No. | 85366990990            |



## Compatible products

### Coding

|                                                                                  |                                                                              |                                                                |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 734-130</b><br>Coding key; to be snapped above top level; white | <a href="http://www.wago.com/734-130">www.wago.com/734-130</a> |
|  | <b>Item no.: 734-159</b><br>Coding key; to be snapped above top level; black | <a href="http://www.wago.com/734-159">www.wago.com/734-159</a> |

## Downloads

### Documentation

#### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |
|------------------------|-------------|---------------|----------|

## CAD/CAE-Data

### CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 734-270 | URL | Download |
|---------------------|-----|----------|

### EPLAN

|                   |          |
|-------------------|----------|
| EPLAN Data Portal | Download |
|-------------------|----------|

Subject to changes.