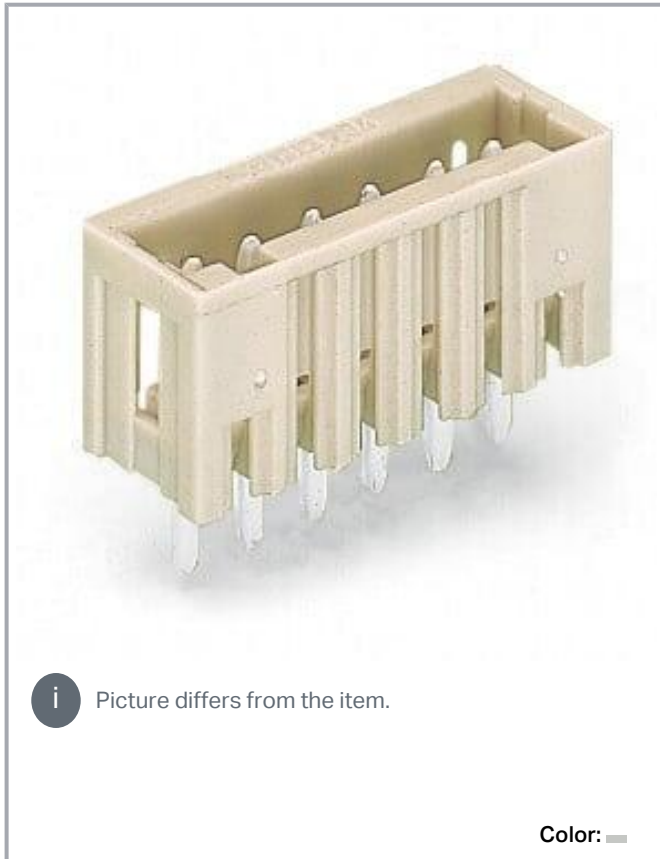


## Data sheet | Item number: 734-133/046-000

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against  
mismating; Pin spacing 3.5 mm; 3-pole; light gray

[www.wago.com/734-133/046-000](http://www.wago.com/734-133/046-000)



 Picture differs from the item.

Color: 

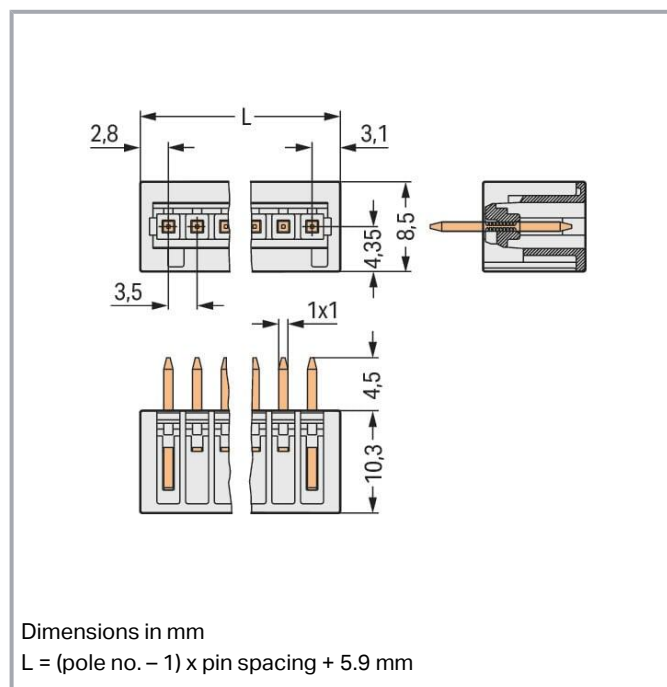
**Derating Curve**  
1-conductor female connector (734-102) with  
THT male header (734-162)  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



Subject to changes. Please also observe the further product documentation!

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## Item description

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

## Data

### 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  
 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

Subject to changes. Please also observe the further product documentation!

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## Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1                                            |
|-------------------------------|-----------------------------------------------------------|
| Nominal 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                                                    |
| Nominal voltage (II/2)        | 320 V                                                     |
| Rated surge voltage (II/2)    | 2.5 kV                                                    |
| Rated current                 | 10 A                                                      |
| Legend (ratings)              | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

## Ratings per UL

| 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   |
| Rated current UL (Use Group D) | 10 A    |

## Ratings per CSA

| 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 | 3 |
| Number of connection types | 1 |
| Number of levels           | 1 |

## Connection 1

|             |   |
|-------------|---|
| Pole number | 3 |
|-------------|---|

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 12.9 mm / 0.508 inches |

Subject to changes. Please also observe the further product documentation!



|                                      |                          |
|--------------------------------------|--------------------------|
| Height                               | 14.1 mm / 0.555 inches   |
| Height from the surface              | 8.5 mm / 0.335 inches    |
| Depth                                | 8.5 mm / 0.335 inches    |
| Solder pin length                    | 4.5 mm                   |
| Solder pin dimensions                | 1 x 1 mm                 |
| Drilled hole diameter with tolerance | 1.4 <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             |
| Mismating protection                 | Yes                 |
| Plugging without loss of pin spacing | No                  |
| Mating direction to the PCB          | 90 °                |
| Locking of plug-in connection        | none                |

## 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                       | light gray                                               |
| Material group              | I                                                        |
| Insulation material         | Polyamide (PA66)                                         |
| Flammability class per UL94 | V0                                                       |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                   |
| Contact plating             | Tin                                                      |
| Fire load                   | 0.014 MJ                                                 |
| Weight                      | 0.8 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)              | 200 pcs                |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4045454654948          |
| Customs tariff number | 85366930000            |

## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

## Approvals / Certificates

### General approvals

| Logo                                                                               | Approval                             | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|
|  | CSA<br>DEKRA Certification B.V.      | C22.2                    | 1465035          |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

### Declarations of conformity and manufacturer's declarations

| Logo                                                                               | Approval                      | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------|
|  | Railway<br>WAGO GmbH & Co. KG | -                        | Railway Ready    |

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## Approvals for marine applications

| Logo                                                                              | Approval                         | Additional Approval Text | Certificate name |
|-----------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|
|  | <b>BV</b><br>Bureau Veritas S.A. | IEC 60998                | 11915/D0<br>BV   |

## Counterpart

**Item no. 734-103**

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; 100% protected against mismatching; 1,50 mm²; light gray

[www.wago.com/734-103](http://www.wago.com/734-103)**Item no. 734-463**

THT female header; straight; Pin spacing 3.5 mm; 3-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-463](http://www.wago.com/734-463)**Item no. 734-463/037-000**

THT female header; straight; Pin spacing 3.5 mm; 3-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-463/037-000](http://www.wago.com/734-463/037-000)**Item no. 734-533/037-000**

THT female header; angled; Pin spacing 3.5 mm; 3-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-533/037-000](http://www.wago.com/734-533/037-000)**Item no. 734-533**

THT female header; angled; Pin spacing 3.5 mm; 3-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-533](http://www.wago.com/734-533)

## Optional accessories

## Coding

## Coding

**Item no.: 734-159**

Coding key; to be snapped above top level; black

[www.wago.com/734-159](http://www.wago.com/734-159)

## Downloads

## Documentation

## Additional Information

2019 Apr 3

pdf  
2.1 MB

Download

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## CAD/CAE-Data

### PCB Design

Symbol and Footprint via Ultra Librarian 734-133/046-000

URL

Download

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Subject to changes. Please also observe the further product documentation!

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Symbol and Footprint via SamacSys 734-133/046-000

[URL](#)

[Download](#)

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

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## Environmental Product Compliance

### Compliance Search

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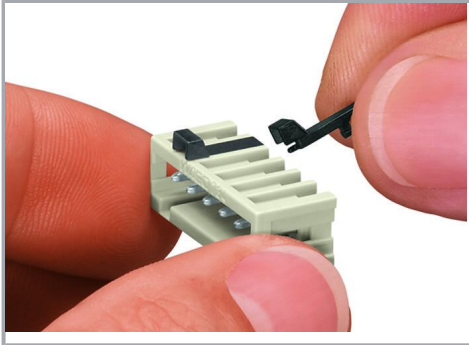
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Environmental Product Compliance 734-133/046-000

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against  
mismating; Pin spacing 3.5 mm; 3-pole; light gray

## Installation Notes

### Coding



Coding a male header – fitting coding key(s).

## Product family

### MCS MINI

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!