

**Data sheet | Item number: 734-163**

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

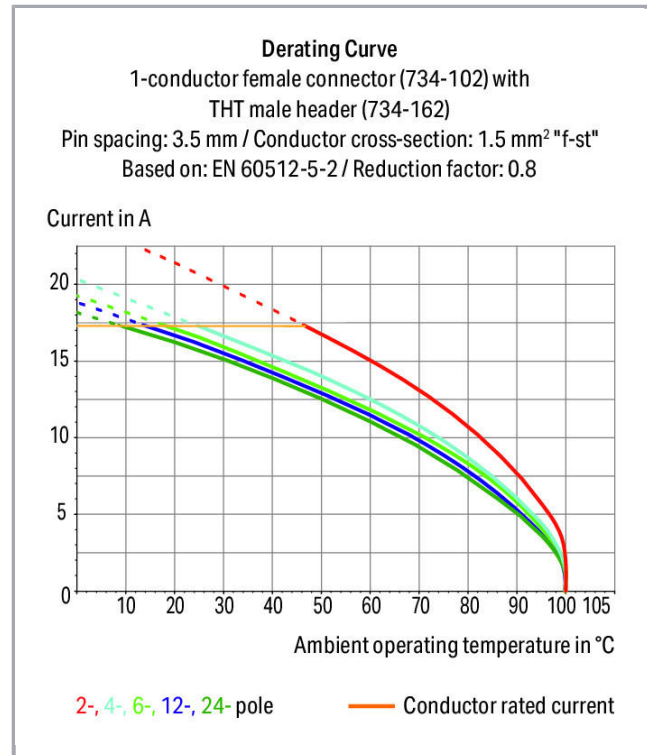
[www.wago.com/734-163](http://www.wago.com/734-163)



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

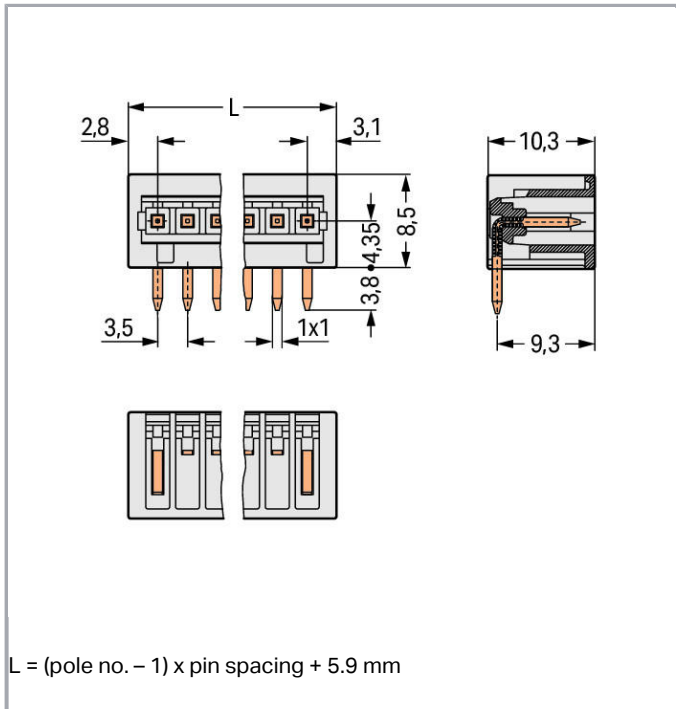
Color:



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 via coding fingers

### Safety information 1:

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. 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

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

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Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### 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

### 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

Pole No.	3
Total number of potentials	3
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	3,5 mm / 0.138 inch
Width	12,9 mm / 0.508 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 with tolerance	1,4 <sup>(+0,1)</sup> mm

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB

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

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	light gray
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.014 MJ
Weight	0.9 g

### Environmental Requirements

Limit temperature range	-60 ... +100 °C
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### Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918872232
Customs tariff number	85366990990

### Counterpart



#### Item no.734-103

1-conductor female plug; 100% protected against mismating; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; light gray [www.wago.com/734-103](http://www.wago.com/734-103)



#### Item no.2734-103

1-conductor female plug; 100% protected against mismating; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; light gray [www.wago.com/2734-103](http://www.wago.com/2734-103)

#### Item no.2734-103/037-000

[www.wago.com/2734-103](http://www.wago.com/2734-103)

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1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 1.5 mm<sup>2</sup>; /037-000  
Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; light gray



**Item no.2734-103/031-000**  
1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; 1.5 mm<sup>2</sup>; [www.wago.com/2734-103/031-000](http://www.wago.com/2734-103/031-000)  
Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; light gray



**Item no.734-103/037-000**  
1-conductor female plug; 100% protected against mismatching; Locking lever; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; light gray [www.wago.com/734-103/037-000](http://www.wago.com/734-103/037-000)



**Item no.734-103/037-000/032-000**  
1-conductor female plug; 100% protected against mismatching; Locking lever; Strain relief plate; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; light gray [www.wago.com/734-103/037-000/032-000](http://www.wago.com/734-103/037-000/032-000)

## Compatible products

### Coding



**Item no.: 734-130**  
Coding key; to be snapped above top level; white [www.wago.com/734-130](http://www.wago.com/734-130)



**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

### CAD/CAE-Data

#### CAD data

2D/3D Models 734-163	<a href="#">URL</a>	<a href="#">Download</a>
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#### CAE data

EPLAN Data Portal 734-163	<a href="#">URL</a>	<a href="#">Download</a>
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#### PCB Design

Symbol and Footprint 734-163	<a href="#">URL</a>	<a href="#">Download</a>
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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
- Altium 6 to current version

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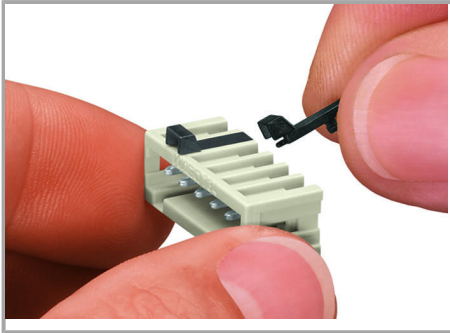
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, 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

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

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## Installation Notes

### Coding



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

## Product family

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<i>MCS</i> MINI

[Show all products from the family](#)

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