

**Data sheet | Item number: 734-165**

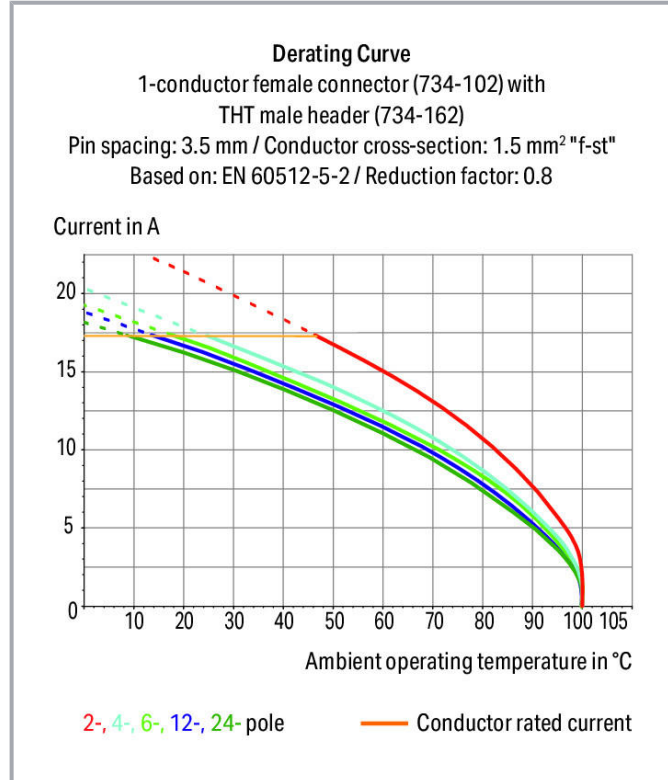
THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 5-pole; light gray

[www.wago.com/734-165](http://www.wago.com/734-165)



**i** Picture differs from the item.

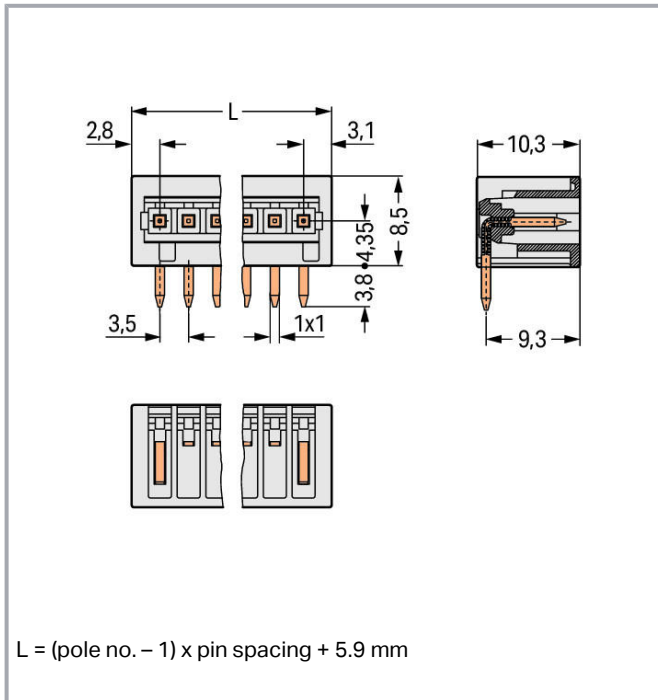
Color:



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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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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

## 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

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

### 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

Pole No.	5
Total number of potentials	5
Number of connection types	1
Number of levels	1

### Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	19.9 mm / 0.783 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

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



### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismatching 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 (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.02 MJ
Weight	1.3 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	4044918872287
Customs tariff number	85366990990

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## Counterpart



**Item no.734-105**

1-conductor female plug; 100% protected against mismatching; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-105](http://www.wago.com/734-105)



**Item no.2734-105**

1-conductor female plug; 100% protected against mismatching; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-105](http://www.wago.com/2734-105)



**Item no.2734-105/031-000**

1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-105/031-000](http://www.wago.com/2734-105/031-000)



**Item no.2734-105/037-000**

1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-105/037-000](http://www.wago.com/2734-105/037-000)



**Item no.734-105/037-000**

1-conductor female plug; 100% protected against mismatching; Locking lever; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-105/037-000](http://www.wago.com/734-105/037-000)



**Item no.734-105/037-000/033-000**

1-conductor female plug; 100% protected against mismatching; Locking lever; Strain relief plate; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-105/037-000/033-000](http://www.wago.com/734-105/037-000/033-000)

## 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

### Documentation

#### Additional Information

Technical explanations

2019 Apr 3

pdf  
2.0 MB

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## CAD/CAE-Data

### CAD data

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2D/3D Models 734-165

[URL](#)

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#### CAE data

EPLAN Data Portal 734-165

[URL](#)

[Download](#)

ZUKEN Portal 734-165

[URL](#)

[Download](#)

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#### PCB Design

Symbol and Footprint 734-165

[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
- Altium 6 to current version
- 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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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 734-165

URL

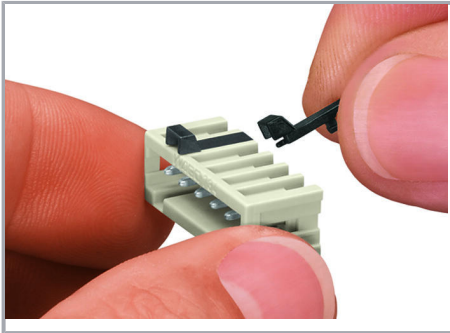
Download

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 5-pole; light gray

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## Installation Notes

### Coding



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

## Product family

*MCS* MINI

[Show all products from the family](#)

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