

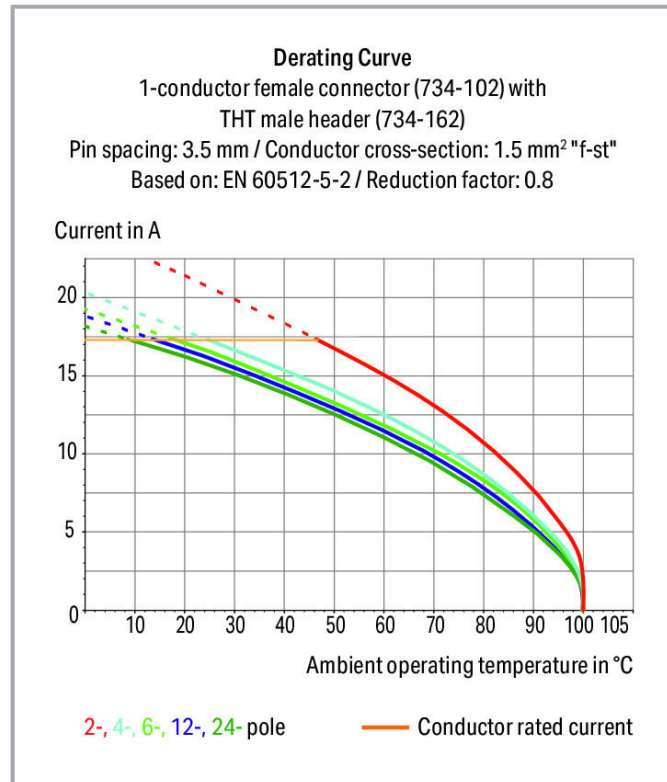
Data sheet | Item number: 734-166

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 6-pole; light gray

www.wago.com/734-166



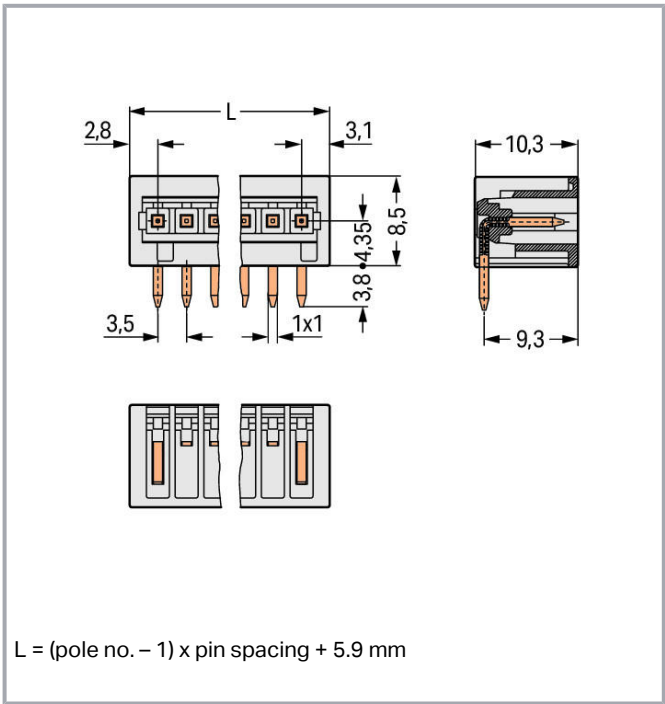
Color: —



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 mismating; 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.	6
Total number of potentials	6
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	23.4 mm / 0.921 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 ^(+0.1) mm

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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

Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.024 MJ
Weight	1.6 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	PL
GTIN	4044918872300
Customs tariff number	85366990990

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Counterpart


Item no.734-106

1-conductor female plug; 100% protected against mismatching; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/734-106


Item no.2734-106

1-conductor female plug; 100% protected against mismatching; push-button; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/2734-106


Item no.2734-106/031-000

1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/2734-106/031-000


Item no.2734-106/033-000

1-conductor female plug; 100% protected against mismatching; push-button; Strain relief plate; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/2734-106/033-000


Item no.734-106/037-000

1-conductor female plug; 100% protected against mismatching; Locking lever; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/734-106/037-000


Item no.734-106/037-000/033-000

1-conductor female plug; 100% protected against mismatching; Locking lever; Strain relief plate; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/734-106/037-000/033-000


Item no.2734-106/037-000

1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 1,50 mm²; light gray www.wago.com/2734-106/037-000

Compatible products

Coding


Item no.: 734-130

Coding key; to be snapped above top level; white www.wago.com/734-130


Item no.: 734-159

Coding key; to be snapped above top level; black www.wago.com/734-159

Downloads

Documentation

Additional Information

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 734-166	URL	Download
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CAE data

EPLAN Data Portal 734-166	URL	Download
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ZUKEN Portal 734-166	URL	Download
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PCB Design

Symbol and Footprint 734-166	URL	Download
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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
- 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

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 734-166

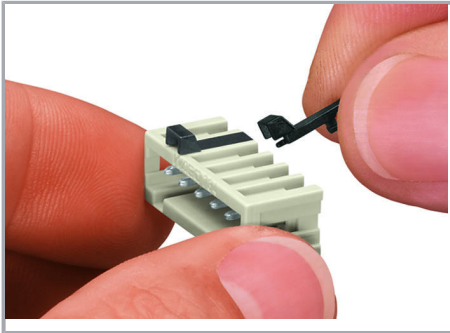
URL

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Installation Notes

Coding



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

Product family

<i>MCS</i> MINI

[Show all products from the family](#)

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