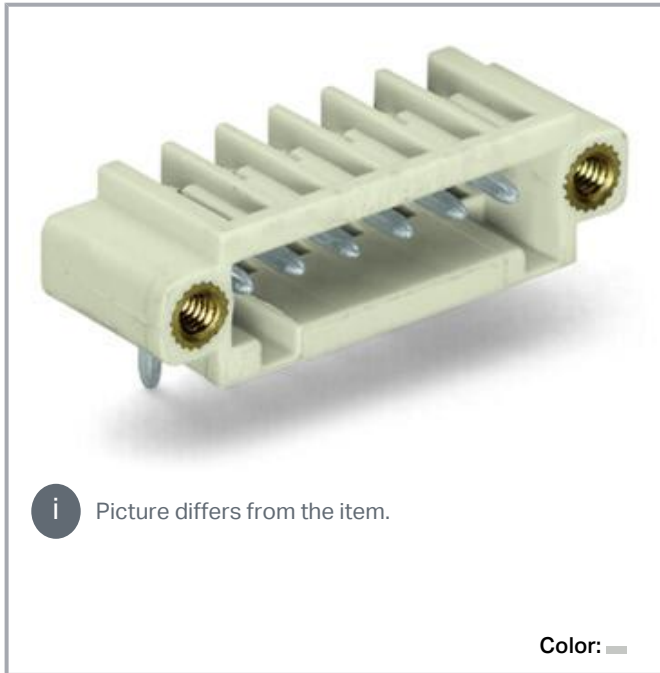


Data sheet | Item number: 734-170/108-000

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against
mismating; Threaded flange; Pin spacing 3.5 mm; 10-pole; light gray

www.wago.com/734-170/108-000



 Picture differs from the item.

Color: 

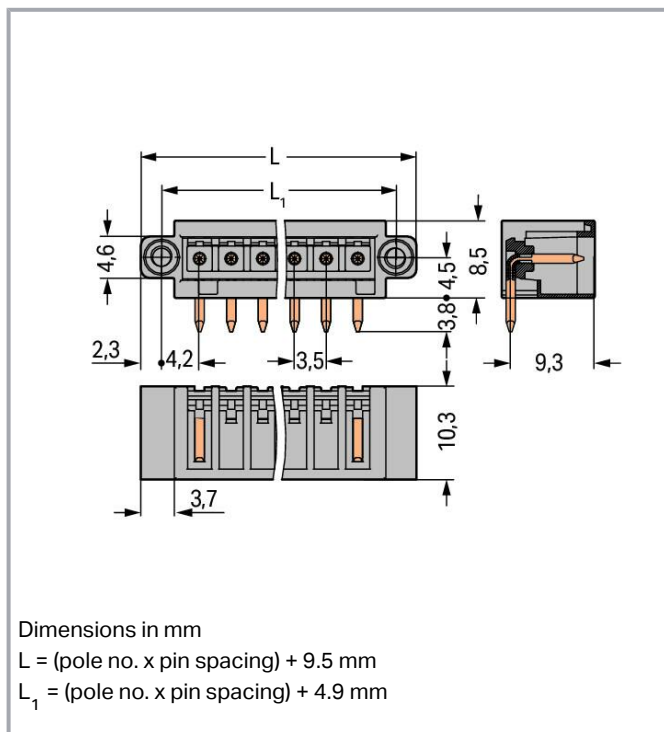
Derating Curve
1-conductor female connector (734-102) with
THT male header (734-162)
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8



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 mismating; 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) $\triangleq$ 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

Total number of potentials	10
Number of connection types	1
Number of levels	1

Connection 1

Pole number	10
-------------	----

Physical data

Pin spacing	3.5 mm / 0.138 inches
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Subject to changes. Please also observe the further product documentation!



Width	44.5 mm / 1.752 inches
Height	12.3 mm / 0.484 inches
Height from the surface	8.5 mm / 0.335 inches
Depth	10.3 mm / 0.406 inches
Solder pin length	3.8 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 ^(+0.1) 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	0 °
Locking of plug-in connection	Threaded flange

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 _{Cu})
Contact plating	Tin
Fire load	0.047 MJ

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



Weight	3.2 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)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454683108
Customs tariff number	85366930000

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	e7197af9-00c0-4d5f-92f9-f9f232f2b320
SCIP notification number (Belgium)	a0cdfe48-72fa-46c6-ae0b-9577df797c36
SCIP notification number (Bulgaria)	875f74c6-5c91-4db9-9db7-b794969618b4
SCIP notification number (Czech Republic)	93d3a99a-57d0-4ae2-84db-8c6fbaf33225
SCIP notification number (Denmark)	db2a92c5-b58d-49c9-a776-f58fcf376c62
SCIP notification number (Finland)	a11e71ca-4c71-428e-8394-30c3f075c0ca
SCIP notification number (France)	a3b86de8-9688-4471-8579-e6c650d256f1
SCIP notification number (Germany)	2410a02e-1317-46da-8859-5dd7868249c3
SCIP notification number (Hungary)	52910e9c-7da2-44eb-8563-1cb03e40bf45
SCIP notification number (Italy)	6b976989-facb-4fb5-bc39-0071f4f31ef2
SCIP notification number (Netherlands)	9fe41a52-850b-4b93-a881-b919d62e2953
SCIP notification number (Poland)	5feff024-b6b0-4183-bf4b-e4608d25ab96
SCIP notification number (Romania)	c4d87a29-07ad-4b43-a566-599e1c15ab4e
SCIP notification number (Sweden)	1351d86e-8a53-4bbf-b490-058a16712d2b

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

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Counterpart

	Item no.734-110/107-000 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray	www.wago.com/734-110/107-000
	Item no.2734-110/107-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray	www.wago.com/2734-110/107-000

Optional accessories

Coding		
Coding		
	Item no.: 734-159 Coding key; to be snapped above top level; black	www.wago.com/734-159
	Item no.: 734-130 Coding key; to be snapped above top level; white	www.wago.com/734-130

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 734-170/108-000	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:

- AcceI EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark

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

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- 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

Symbol and Footprint via SamacSys 734-170/108-000

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

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

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- 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

CAE data

	URL	Download
ZUKEN Portal 734-170/108-000		

CAD data

	URL	Download
2D/3D Models 734-170/108-000		

Asset Administration Shell

	URL	Download
Asset Administration Shell 734-170/108-000		

Environmental Product Compliance

Compliance Search

	URL	Download
Environmental Product Compliance 734-170/108-000		

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 10-pole; light gray

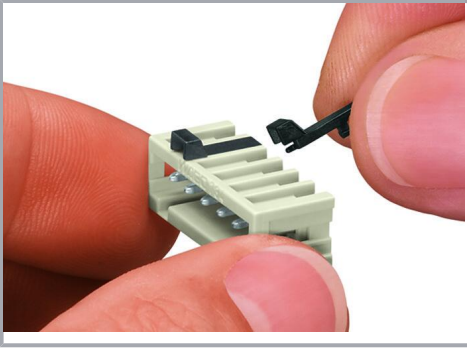
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Installation Notes

Coding



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

Product family

MCS MINI

[Show all products from the family](#)

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