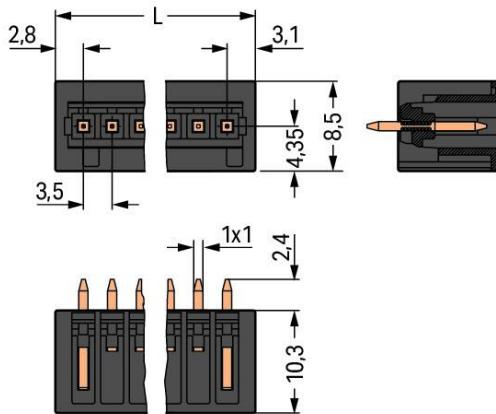


Picture differs from the item.

Color: ■



Dimensions in mm

L = (pole no. - 1) x pin spacing + 5.9 mm

#### Derating Curve

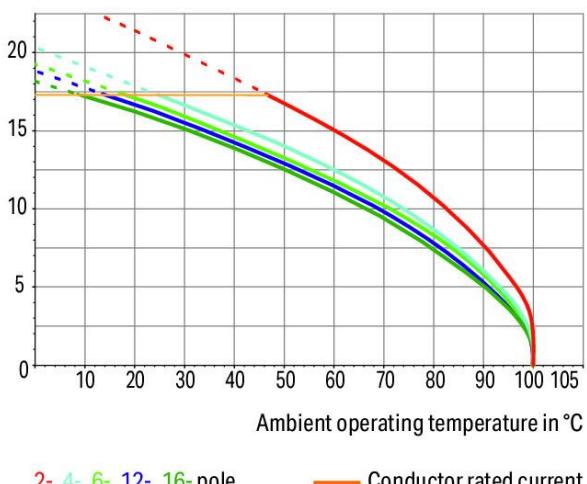
1-conductor female connector (734-102) with

THR male header (734-132/105-604)

Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"

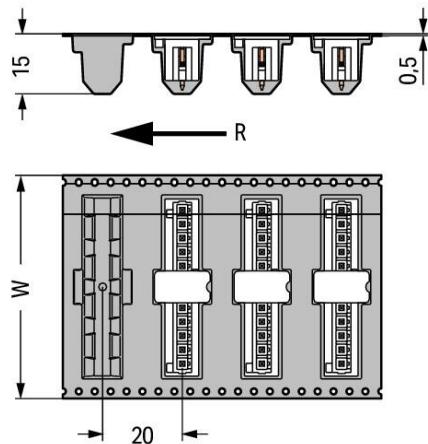
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



2-, 4-, 6-, 12-, 16-pole

Conductor rated current



Dimensions in mm

W = tape width

R = feed direction

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

## Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Optimal thermal penetration via pin enclosure design provides lower soldering temperatures
- 100% protected against mismatching
- Coding via coding fingers

## 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  
 Other solder pin lengths  
 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

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

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 We are always happy to take your call at +49 (571) 887-44222.

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	14
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	14
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### Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	52.4 mm / 2.063 inches
Height	12.7 mm / 0.5 inches
Height from the surface	10.3 mm / 0.406 inches
Depth	8.5 mm / 0.335 inches
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm
Plated through-hole diameter (THR)	1.4 <sup>(+0.1)</sup> mm
Reel diameter of tape-and-reel packaging	330 mm
Tape width	72 mm

### Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

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
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	THR
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	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	14.2 MJ
Weight	3.5 g
MSL per J-STD 020D	1

## 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

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

ETIM 7.0	EC002637
PU (SPU)	200 pcs
Packaging type	bag
Country of origin	DE
GTIN	4050821308706
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Counterpart



**Item no. 734-114**

1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 14-pole; 100% protected against  
mismating; 1,50 mm<sup>2</sup>; light gray

[www.wago.com  
/734-114](http://www.wago.com/734-114)

## Optional accessories

Coding	
Coding	
	<p><b>Item no.: 734-159</b></p> <p>Coding key; to be snapped above top level; black</p>

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

## Downloads

### Documentation

#### Additional Information

THR Soldering Process	2019 Apr 3	<a href="#">pdf</a> 2.1 MB	<a href="#">Download</a>
		<a href="#">pdf</a> 548.2 kB	<a href="#">Download</a>

## CAD/CAE-Data

### CAD data

2D/3D Models 734-144/105-604/997-408	<a href="#">URL</a>	<a href="#">Download</a>
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### Asset Administration Shell

Asset Administration Shell 734-144/105-604/997-408	<a href="#">URL</a>	<a href="#">Download</a>
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Subject to changes. Please also observe the further product documentation!

## PCB Design

Symbol and Footprint via SamacSys 734-144/105-604/997-408

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

Symbol and Footprint via Ultra Librarian 734-144/105-604/997-408

URL

Download

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

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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
- 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

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 734-144/105-604/997-408

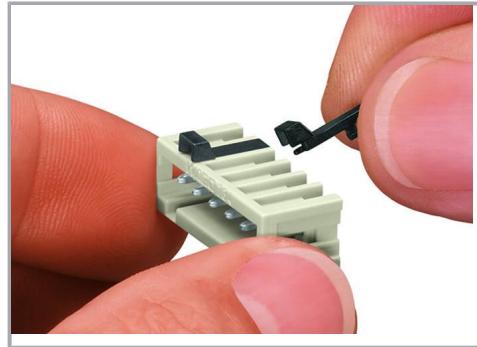
URL [Download](#)

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

THR male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against  
mismating; in tape-and-reel packaging; Pin spacing 3.5 mm; 14-pole; black

## 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!

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