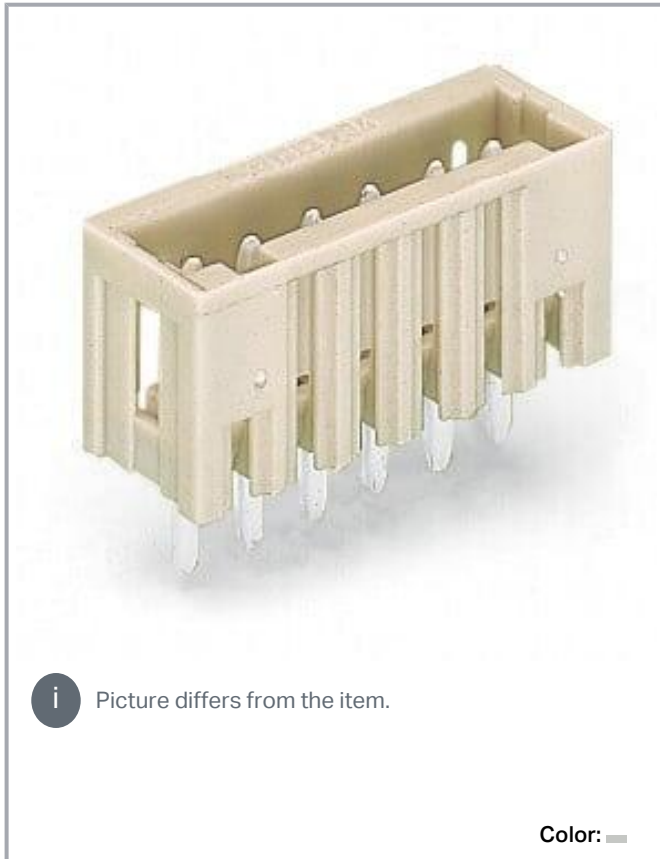


## Data sheet | Item number: 734-146

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 16-pole; light gray

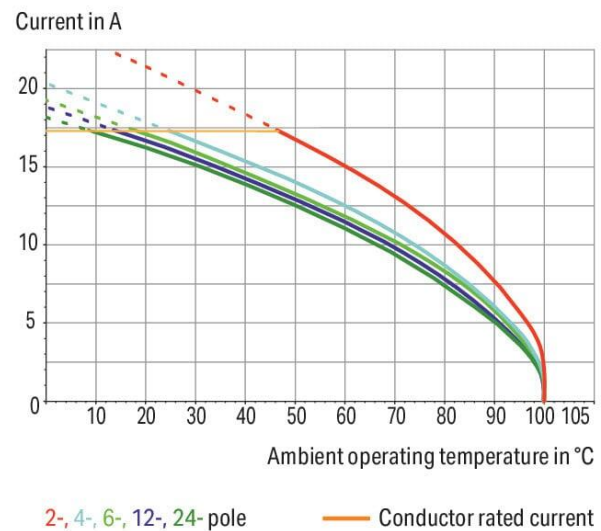
[www.wago.com/734-146](http://www.wago.com/734-146)



Picture differs from the item.

Color:

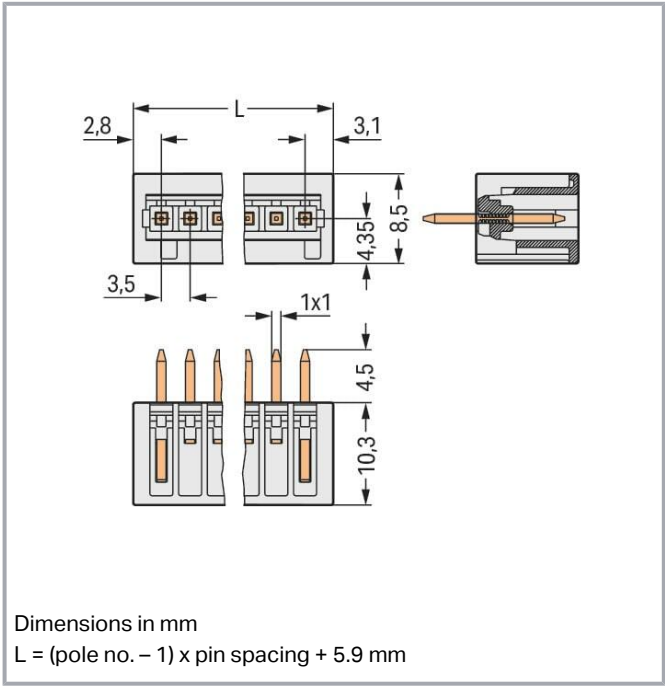
**Derating Curve**  
1-conductor female connector (734-102) with  
THT male header (734-162)  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



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  
3.8 mm pin projection for male headers with straight solder pins  
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

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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) ≙ 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	16
Number of connection types	1
Number of levels	1

## Connection 1

Pole number	16
-------------	----

## Physical data

Pin spacing	3.5 mm / 0.138 inches
-------------	-----------------------

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



Width	58.4 mm / 2.299 inches
Height	14.8 mm / 0.583 inches
Height from the surface	10.3 mm / 0.406 inches
Depth	8.5 mm / 0.335 inches
Solder pin length	4.5 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 <sup>(+0.1)</sup> 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	90 °
Locking of plug-in connection	none

## 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 <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.06 MJ

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



Weight	3.6 g
--------	-------

## 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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918847766
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61984	2169534.02
	CCA DEKRA Certification B.V.	EN 61984	nl-54190
	CSA DEKRA Certification B.V.	C22.2	1465035
	UL Underwriters Laboratories Inc.	UL 1977	E 45171

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




UR  
Underwriters Laboratories Inc.




UL 1059

E45172

## Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>Railway</b> WAGO GmbH & Co. KG	-	Railway Ready

## Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1869876-PDA
	<b>DNV</b> DNV GL SE	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart

**Item no.734-116**

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; 1,50 mm²; light gray

[www.wago.com/734-116](http://www.wago.com/734-116)**Item no.2734-116**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; 1,50 mm²; light gray

[www.wago.com/2734-116](http://www.wago.com/2734-116)**Item no.2734-116/027-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; light gray

[www.wago.com/2734-116/027-000](http://www.wago.com/2734-116/027-000)**Item no.2734-116/037-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray

[www.wago.com/2734-116/037-000](http://www.wago.com/2734-116/037-000)

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**Item no. 734-116/037-000**

1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-116/037-000](http://www.wago.com/734-116/037-000)

**Item no. 734-116/037-000/035-000**

1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-116/037-000/035-000](http://www.wago.com/734-116/037-000/035-000)

**Item no. 2734-1116/327-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-1116/327-000](http://www.wago.com/2734-1116/327-000)

**Item no. 2734-1116/328-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-1116/328-000](http://www.wago.com/2734-1116/328-000)

**Item no. 2734-1116/038-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-1116/038-000](http://www.wago.com/2734-1116/038-000)

**Item no. 2734-1116/327-000/336-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Strain relief plate; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-1116/327-000/336-000](http://www.wago.com/2734-1116/327-000/336-000)

**Item no. 734-546**

THT female header; angled; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-546](http://www.wago.com/734-546)

**Item no. 734-546/037-000**

THT female header; angled; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-546/037-000](http://www.wago.com/734-546/037-000)

**Item no. 734-476**

THT female header; straight; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-476](http://www.wago.com/734-476)

**Item no. 734-476/037-000**

THT female header; straight; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray

[www.wago.com/734-476/037-000](http://www.wago.com/734-476/037-000)

**Item no. 2734-1116/327-9037**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; direct marking; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-1116/327-9037](http://www.wago.com/2734-1116/327-9037)

**Item no. 2734-1116/327-047**

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

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1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole;  
100% protected against mismatching; direct marking; 1,50 mm²; light gray

[www.wago.com/2734-1116/327-047](http://www.wago.com/2734-1116/327-047)

Optional accessories

Coding			
Coding			
<hr/>			
		Item no.: 734-159	<a href="http://www.wago.com/734-159">www.wago.com/734-159</a>
Coding key; to be snapped above top level; black			
<hr/>			
		Item no.: 734-130	<a href="http://www.wago.com/734-130">www.wago.com/734-130</a>
Coding key; to be snapped above top level; white			
<hr/>			

Downloads

Documentation

Additional Information				
		2019 Apr 3	pdf 2.1 MB	Download
<hr/>				

CAD/CAE-Data

CAE data

EPLAN Data Portal 734-146	URL	Download
<hr/>		
ZUKEN Portal 734-146	URL	Download
<hr/>		

PCB Design

Symbol and Footprint via Ultra Librarian 734-146	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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark

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





- 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 734-146

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

CAD data

2D/3D Models 734-146	URL	Download
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Asset Administration Shell

Asset Administration Shell 734-146	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 734-146	URL	Download
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 16-pole; light gray		

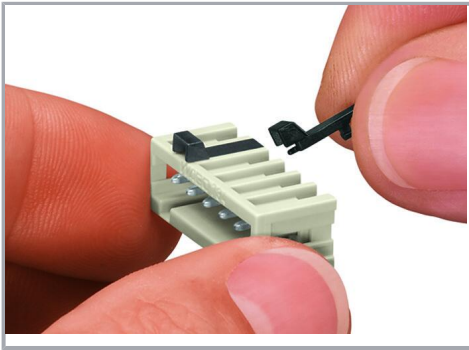
Installation Notes

Coding

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

## Product family

### MCS MINI

[Show all products from the family](#)

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