

**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

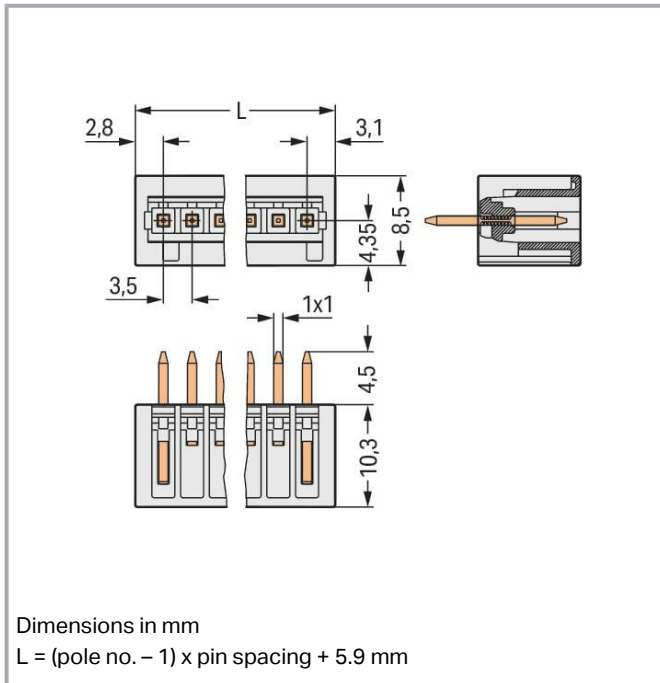
[www.wago.com/734-146](http://www.wago.com/734-146)



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 mismatching; 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
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### 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	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
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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
ECCN	NO DATA
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
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### 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

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	UR	UL 1059	E45172
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Underwriters Laboratories Inc.

**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**



<b>Item no.734-116</b>	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	<a href="http://www.wago.com/734-116">www.wago.com/734-116</a>
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<b>Item no.2734-116</b>	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	<a href="http://www.wago.com/2734-116">www.wago.com/2734-116</a>
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<b>Item no.2734-116/027-000</b>		<a href="http://www.wago.com/2734-116/027-000">www.wago.com/2734-116/027-000</a>
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	1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; clamping collar; 1,50 mm <sup>2</sup> ; light gray	116/027-000
	<b>Item no. 2734-116/037-000</b> 1-conductor female connector; push-button; 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	<a href="http://www.wago.com/2734-116/037-000">www.wago.com/2734-116/037-000</a>
	<b>Item no. 734-116/037-000</b> 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	<a href="http://www.wago.com/734-116/037-000">www.wago.com/734-116/037-000</a>
	<b>Item no. 734-116/037-000/035-000</b> 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	<a href="http://www.wago.com/734-116/037-000/035-000">www.wago.com/734-116/037-000/035-000</a>
	<b>Item no. 2734-1116/327-000</b> 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	<a href="http://www.wago.com/2734-1116/327-000">www.wago.com/2734-1116/327-000</a>
	<b>Item no. 2734-1116/328-000</b> 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	<a href="http://www.wago.com/2734-1116/328-000">www.wago.com/2734-1116/328-000</a>
	<b>Item no. 2734-1116/038-000</b> 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	<a href="http://www.wago.com/2734-1116/038-000">www.wago.com/2734-1116/038-000</a>
	<b>Item no. 2734-1116/327-000/336-000</b> 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	<a href="http://www.wago.com/2734-1116/327-000/336-000">www.wago.com/2734-1116/327-000/336-000</a>
	<b>Item no. 734-546</b> 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	<a href="http://www.wago.com/734-546">www.wago.com/734-546</a>
	<b>Item no. 734-546/037-000</b> 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	<a href="http://www.wago.com/734-546/037-000">www.wago.com/734-546/037-000</a>
	<b>Item no. 734-476</b> 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	<a href="http://www.wago.com/734-476">www.wago.com/734-476</a>
	<b>Item no. 734-476/037-000</b> 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	<a href="http://www.wago.com/734-476/037-000">www.wago.com/734-476/037-000</a>

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**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**

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

**Optional accessories**

**Coding**

Coding



**Item no.: 734-159**

Coding key; to be snapped above top level; black

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



**Item no.: 734-130**

Coding key; to be snapped above top level; white

[www.wago.com/734-130](http://www.wago.com/734-130)

**Downloads**

**Documentation**

**Additional Information**

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.1 MB	

**CAD/CAE-Data**

**CAE data**

EPLAN Data Portal 734-146	URL	Download
ZUKEN Portal 734-146	URL	Download

**PCB Design**

Symbol and Footprint via Ultra Librarian 734-146	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

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- 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

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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

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- 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

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#### CAD data

2D/3D Models 734-146	<a href="#">URL</a>	<a href="#">Download</a>
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#### Asset Administration Shell

Asset Administration Shell 734-146	<a href="#">URL</a>	<a href="#">Download</a>
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 734-146	<a href="#">URL</a>	<a href="#">Download</a>
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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

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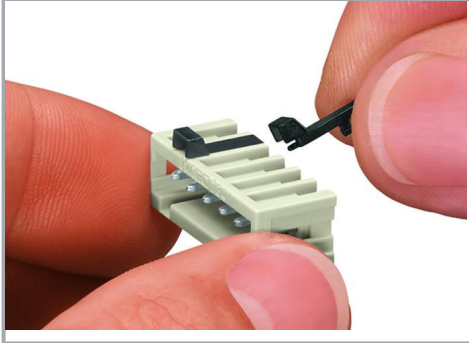
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## Installation Notes

### Coding



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

### Product family

**MCS MINI**

[Show all products from the family](#)

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