



Picture differs from the item.

Color: —

#### Derating Curve

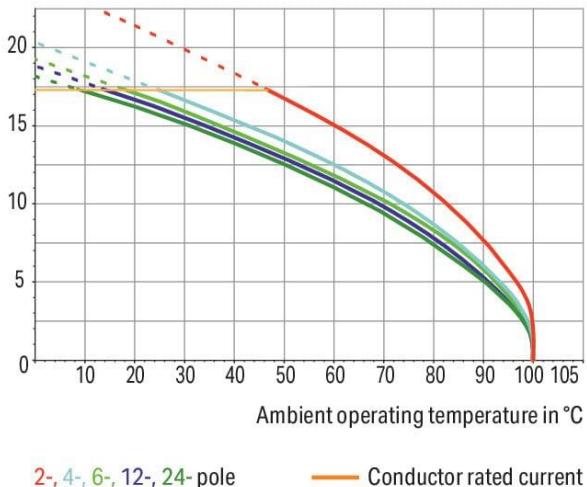
1-conductor female connector (734-102) with

THT male header (734-162)

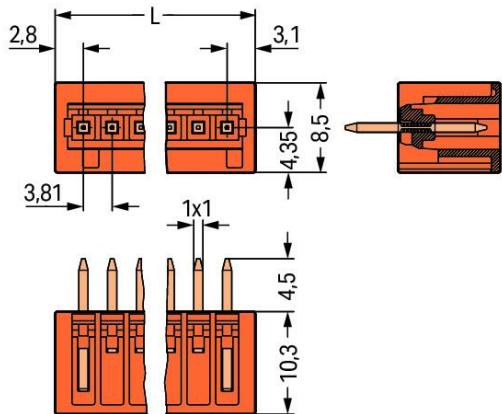
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"

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

Current in A



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



Dimensions in mm

 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$ 

## 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

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!

## 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	12
Number of connection types	1
Number of levels	1

## Connection 1

Pole number	12
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## Physical data

Pin spacing	3.81 mm / 0.15 inches
Width	47.81 mm / 1.882 inches

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

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 ( $\pm 0.1$ ) 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	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	orange
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper ( $E_{Cu}$ )
Contact plating	Tin
Fire load	0.049 MJ
Weight	2.8 g

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

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

**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)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918847988
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
	CB DEKRA Certification B.V.	EN 61984	NL-54190
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 105522

	UL Underwriters Laboratories Inc.	UL 1977	E 45171
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**Declarations of conformity and manufacturer's declarations**

Logo	Approval	Additional Approval Text	Certificate name
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Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG Hansastraße 27 32423 Minden Phone: +49 571 887-0   Fax: +49 571 887-169 Email: <a href="mailto:info.de@wago.com">info.de@wago.com</a>   Web: <a href="http://www.wago.com">www.wago.com</a>	Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.
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Railway  
WAGO GmbH & Co. KG

Railway  
Ready

## Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV GL SE	-	TAE000016Z
	LR Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart

	<b>Item no.734-212</b> 1-conductor female connector; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; 1,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/734-212">www.wago.com/734-212</a>
	<b>Item no.2734-212</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; 1,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/2734-212">www.wago.com/2734-212</a>
	<b>Item no.2734-212/027-000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; clamping collar; 1,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/2734-212/027-000">www.wago.com/2734-212/027-000</a>
	<b>Item no.2734-212/037-000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/2734-212/037-000">www.wago.com/2734-212/037-000</a>
	<b>Item no.2734-212/031-000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; clamping collar; 1,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/2734-212/031-000">www.wago.com/2734-212/031-000</a>
	<b>Item no.734-212/037-000</b> 1-conductor female connector; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/734-212/037-000">www.wago.com/734-212/037-000</a>
	<b>Item no.734-512/037-000</b> THT female header; straight; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; orange	<a href="http://www.wago.com/734-512/037-000">www.wago.com/734-512/037-000</a>
	<b>Item no.734-512</b>	<a href="http://www.wago.com/734-512">www.wago.com/734-512</a>

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

THT female header; straight; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; orange 512



**Item no.734-572**

THT female header; angled; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; orange

[www.wago.com/734-572](http://www.wago.com/734-572)



**Item no.734-572/037-000**

THT female header; angled; Pin spacing 3.81 mm; 12-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; orange

[www.wago.com/734-572/037-000](http://www.wago.com/734-572/037-000)

## 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

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Technical explanations

2.1 MB

## CAD/CAE-Data

### CAD data

2D/3D Models 734-242

URL

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### CAE data

EPLAN Data Portal 734-242

URL

Download

ZUKEN Portal 734-242

URL

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### PCB Design

Symbol and Footprint via Ultra Librarian 734-242

URL

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Hansastr. 27

32423 Minden

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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

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PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 734-242

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:

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

- 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

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#### Asset Administration Shell

Asset Administration Shell 734-242

[URL](#) [Download](#)

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#### Environmental Product Compliance

Compliance Search

Environmental Product Compliance 734-242

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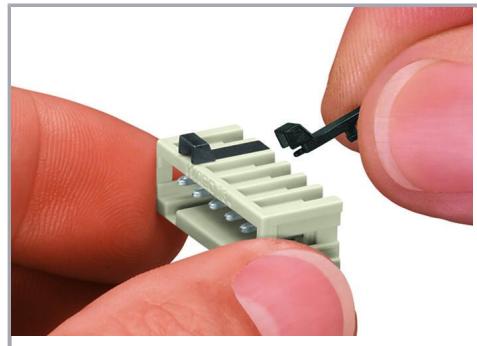
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Subject to changes. Please also observe the further product documentation!

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against  
mismating; Pin spacing 3.81 mm; 12-pole; orange

## 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!

WAGO GmbH & Co. KG

Hansastraße 27

32423 Minden

Phone: +49 571 887-0 | Fax: +49 571 887-169

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