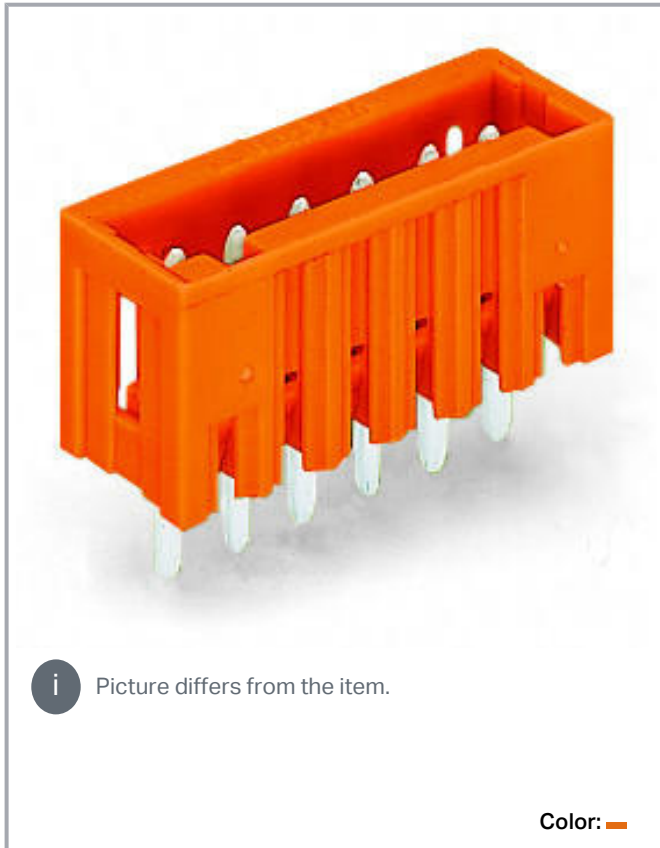


Data sheet | Item number: 734-242

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

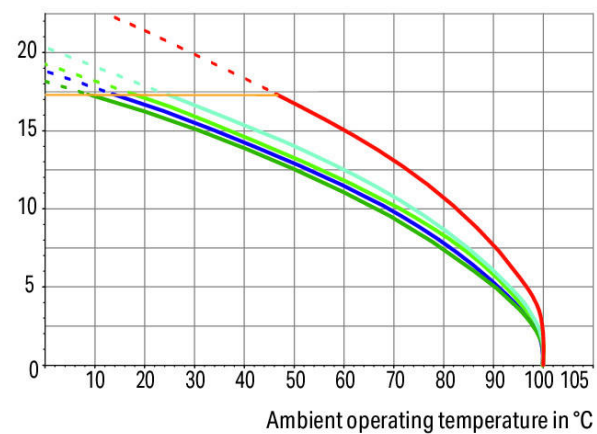
www.wago.com/734-242



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

Current in A



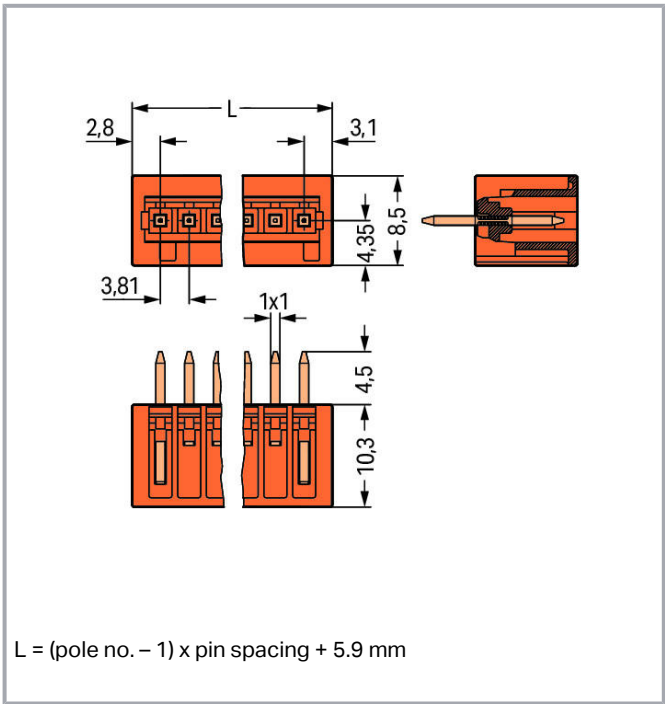
2-, 4-, 6-, 12-, 24-pole

— Conductor rated current

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

Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

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

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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

Pole No.	12
Total number of potentials	12
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	3.81 mm / 0.15 inch
Width	47.81 mm / 1.882 inch
Height	14.8 mm / 0.583 inch
Height from the surface	10.3 mm / 0.406 inch
Depth	8.5 mm / 0.335 inch
Solder pin length	4.5 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 ^(+0.1) mm

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Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	90°
Locking of plug-in connection	Without

PCB contact

PCB Contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

Material data

Color	orange
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact plating	tin-plated
Fire load	0.049 MJ
Weight	2.8 g

Environmental requirements

Limit temperature range	-60 ... +100 °C
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Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918847988
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

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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

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	LR Lloyds Register	IEC 61984	96/20035 (E5)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	20150318- E45171

Counterpart

	Item no.734-212 1-conductor female connector; 100% protected against mismatching; 1.5 mm ² ; Pin spacing 3.81 mm; 12-pole; 1,50 mm ² ; orange	www.wago.com/734-212
	Item no.2734-212 1-conductor female connector; 100% protected against mismatching; push-button; 1.5 mm ² ; Pin spacing 3.81 mm; 12-pole; 1,50 mm ² ; orange	www.wago.com/2734-212
	Item no.2734-212/027-000 1-conductor female connector; 100% protected against mismatching; push-button; clamping collar; 1.5 mm ² ; Pin spacing 3.81 mm; 12-pole; 1,50 mm ² ; orange	www.wago.com/2734-212/027-000
	Item no.2734-212/037-000 1-conductor female connector; 100% protected against mismatching; push-button; Locking lever; 1.5 mm ² ; Pin spacing 3.81 mm; 12-pole; 1,50 mm ² ; orange	www.wago.com/2734-212/037-000

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

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**Item no. 2734-212/031-000**

1-conductor female connector; 100% protected against mismating; push-button; clamping collar; 1.5 mm²; 212/031-000
Pin spacing 3.81 mm; 12-pole; 1,50 mm²; orange

www.wago.com/2734-212/031-000**Item no. 734-212/037-000**

1-conductor female connector; 100% protected against mismating; Locking lever; 1.5 mm²; Pin spacing 3.81 mm; 12-pole; 1,50 mm²; orange

www.wago.com/734-212/037-000**Optional accessories****Coding**

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

Downloads**Documentation****Additional Information**

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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CAD/CAE-Data**CAD data**

2D/3D Models 734-242	URL	Download
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CAE data

EPLAN Data Portal 734-242	URL	Download
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ZUKEN Portal 734-242	URL	Download
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PCB Design

Symbol and Footprint 734-242	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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- Altium 6 to current version
- 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

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

Environmental Product Compliance

Compliance Search

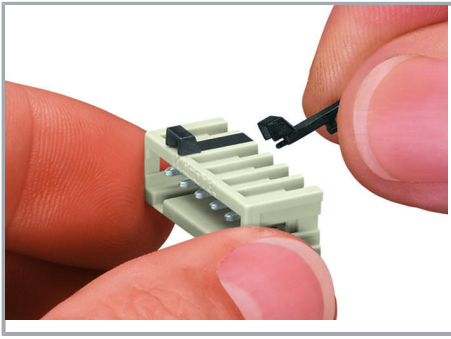
Environmental Product Compliance 734-242	URL	Download
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.81 mm; 12-pole; orange		

Installation Notes

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

Product family

<i>MCS</i> MINI

[Show all products from the family](#)

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