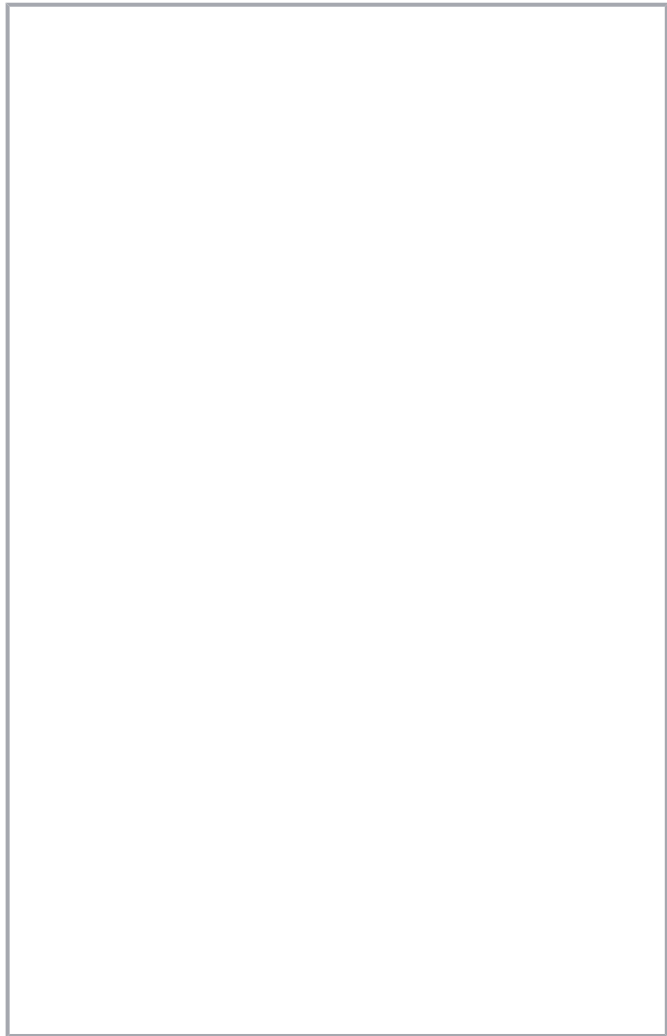


Data sheet | Item number: 734-142

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 12-pole; light gray

www.wago.com/734-142



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

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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

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) $\hat{=}$ 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

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Connection data

Total number of potentials	12
Number of connection types	1
Number of levels	1

Connection 1

Pole number	12
-------------	----

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	44.4 mm / 1.748 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 ^(+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

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



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 _{Cu})
Contact plating	Tin
Fire load	0.044 MJ
Weight	2.7 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)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918847711
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	EN 61984	2169534.02

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DEKRA Certification B.V.			
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
UR Underwriters Laboratories Inc.	UL 1059		E45172

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	Railway WAGO GmbH & Co. KG	-	Railway Ready

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1869876-PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	LR Lloyds Register	IEC 61984	96/20035 (E5)

Counterpart

Item no.734-112 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; 1,50 mm²; light gray	www.wago.com/734-112
Item no.2734-112 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; 1,50 mm²; light gray	www.wago.com/2734-112
Item no.2734-112/027-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; light gray	www.wago.com/2734-112/027-000
Item no.2734-112/031-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; light gray	www.wago.com/2734-112/031-000
Item no.2734-112/037-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray	www.wago.com/2734-112/037-000

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Item no.734-112/037-000 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray	www.wago.com/734-112/037-000
Item no.2734-1112/327-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; 1,50 mm²; light gray	www.wago.com/2734-1112/327-000
Item no.2734-1112/328-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray	www.wago.com/2734-1112/328-000
Item no.2734-1112/038-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray	www.wago.com/2734-1112/038-000
Item no.734-542 THT female header; angled; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray	www.wago.com/734-542
Item no.734-472/037-000 THT female header; straight; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray	www.wago.com/734-472/037-000
Item no.734-472 THT female header; straight; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray	www.wago.com/734-472
Item no.734-542/037-000 THT female header; angled; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray	www.wago.com/734-542/037-000

Optional accessories

Coding

Coding

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

Downloads

Documentation

Additional Information

2019 年4月3日

pdf
2.0 MB

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CAD/CAE-Data

CAD data

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2D/3D Models 734-142

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CAE data

EPLAN Data Portal 734-142

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ZUKEN Portal 734-142

[URL](#)

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PCB Design

Symbol and Footprint 734-142

[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
- 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

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 734-142

URL

Download

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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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