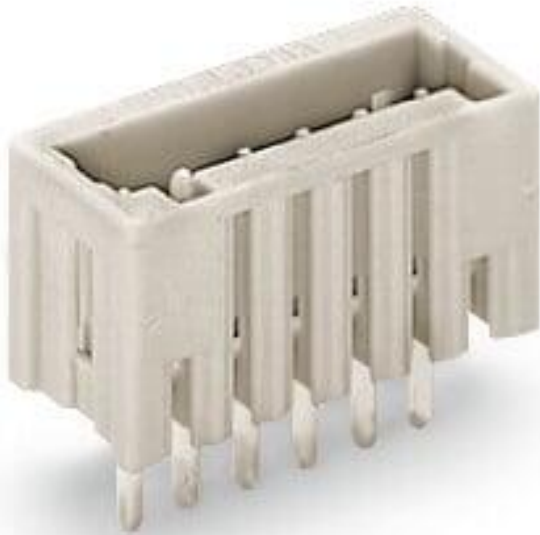# Data sheet | Item number: 733-334

THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 2.5 mm; 4-pole; light gray

www.wago.com/733-334
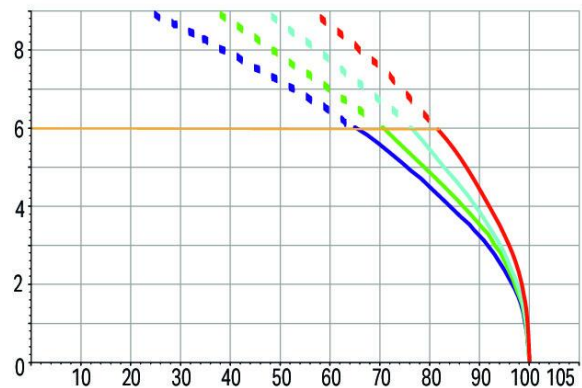

Picture differs from the item.

Color:

Derating Curve
1-conductor female connector (733-102) with
THT male header (733-362)
Pin spacing: 2.5 mm / Conductor cross-section: 0.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8
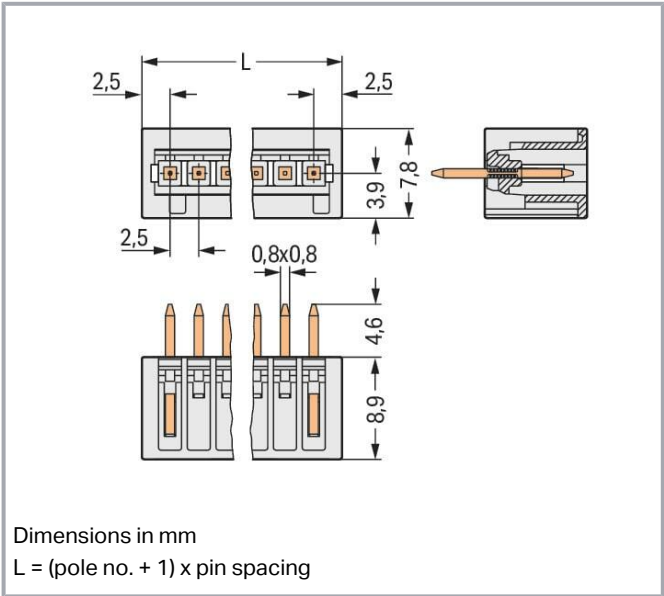
Current in A

Ambient operating temperature in °C

2-, 4-, 6-, 12- pole   —— Conductor rated current

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

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Dimensions in mm
L = (pole no. + 1) x pin spacing

Item description

- 100% protected against mismating; only mating halves with the same pole number can be connected
- 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

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1

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

Nominal voltage (III/3)	80 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	6 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A

Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A

Connection data

Total number of potentials	4
Number of connection types	1
Number of levels	1

Connection 1

Pole number	4

Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	12.5 mm / 0.492 inches
Height	13.5 mm / 0.531 inches
Height from the surface	8.9 mm / 0.35 inches
Depth	7.8 mm / 0.307 inches
Solder pin length	4.6 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.1 $^{(\pm0.1)}$ mm

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

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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 °

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_{Cu})
Contact plating	Tin
Fire load	0.011 MJ
Weight	0.6 g

Environmental requirements

Limit temperature range	-60 … +100 °C
Processing temperature	-35 … +60 °C

Commercial data

Product Group	3 (Multi Conn. System)

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

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)	200 pcs
Packaging type	box
Country of origin	CN
GTIN	4050821035619
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.	IEC 61984	NL-31141
KEMA EUR	**CCA** DEKRA Certification B.V.	EN 61984	2169534.01
CQC	**CCC** CQC	GB/T 13140.1	CQC03003003013
CSA	**CSA** DEKRA Certification B.V.	C22.2	1465035
RU	**UL** UL International Germany GmbH	UL 1977	E45171
RU	**UL** Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

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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 DNV GL SE	-	TAE000016Z
	LR Lloyds Register	IEC 61984	96/20035 (E5)

Counterpart

	Item no.733-104 1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismating; 0,50 mm²; light gray	www.wago.com/733-104
	Item no.733-104/037-000 1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismating; Lateral locking levers; 0,50 mm²; light gray	www.wago.com/733-104/037-000

Optional accessories

Coding

Coding		
	Item no.: 733-330 Coding key; snap-on type; white	www.wago.com/733-330
	Item no.: 733-331 Coding key; snap-on type; black	www.wago.com/733-331

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

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Downloads
Documentation

Additional Information

Technical Section	2019 年4月3日	pdf	Download
Technical explanations		2.1 MB	

CAD/CAE-Data

CAD data

2D/3D Models 733-334	URL	Download

PCB Design

Symbol and Footprint via Ultra Librarian 733-334	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
- 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

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

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- 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 733-334   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
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!

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

- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component
Search Engine

CAE data

ZUKEN Portal 733-334		URL	Download

Asset Administration Shell

Asset Administration Shell 733-334		URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 733-334		URL	Download
THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 2.5 mm; 4-pole; light gray			

## Installation Notes

Mismating protection
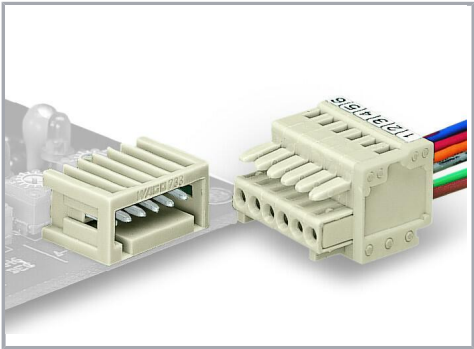
Male headers and female connectors are
100% protected against mismating.
Only mating halves with the same pole number
can be connected.

Coding

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

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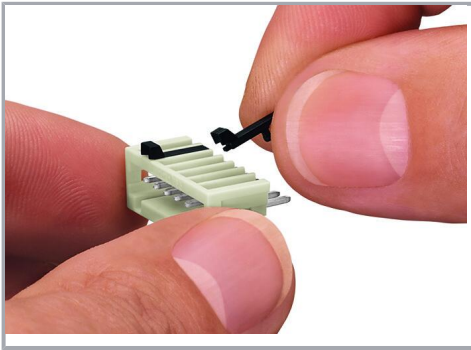
Coding a male header – fitting coding key(s).

Product family

MCS MICRO
Show all products from the family

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

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