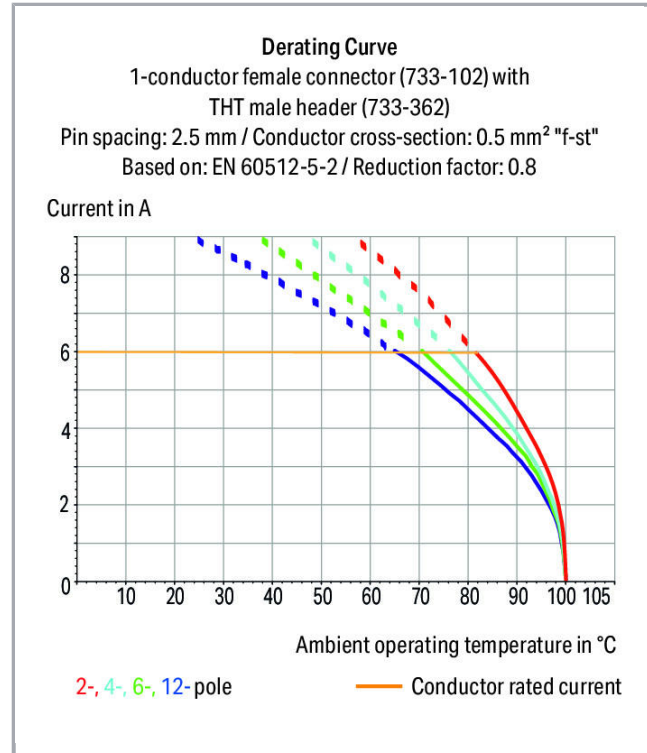


**Data sheet | Item number: 733-333**

THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 3-pole; light gray

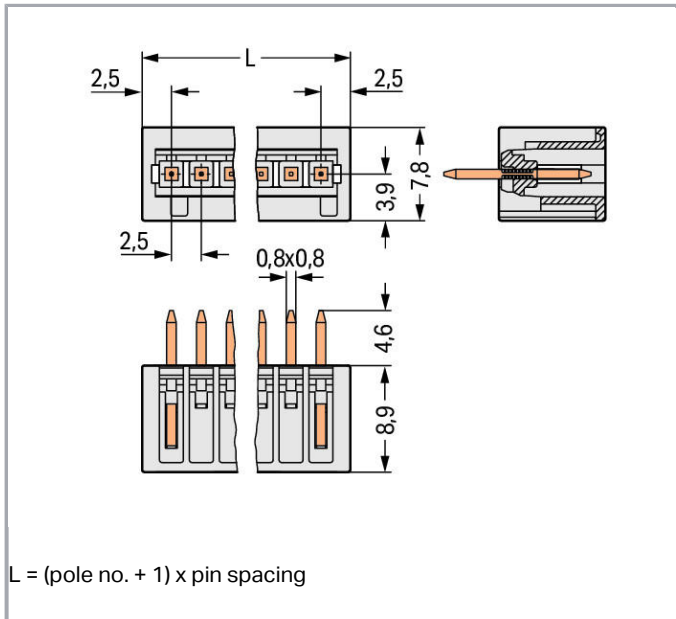
[www.wago.com/733-333](http://www.wago.com/733-333)



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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## 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 via coding fingers

### 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 60664-1

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	80 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	6 A

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Legend (ratings)

(III / 2) ≙ Overvoltage category III / Pollution degree 2

### Approvals per UL 1059

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

### Approvals per CSA

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

### Connection data

Pole No.	3
Total number of potentials	3
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	2,5 mm / 0.098 inch
Width	10 mm / 0.394 inch
Height	13,5 mm / 0.531 inch
Height from the surface	8,9 mm / 0.35 inch
Depth	7,8 mm / 0.307 inch
Solder pin length	4.6 mm
Solder pin dimensions	0,8 x 0,8 mm
Drilled hole diameter with tolerance	1,1 <sup>(+0,1)</sup> mm

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	90°

### PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector (in-line)

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

Number of solder pins per potential	1
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## Material Data

Color	light gray
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.009 MJ
Weight	0.5 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	CN
GTIN	4050821035602
Customs tariff number	85366990990

## Approvals / Certificates




### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61984	2169534.01
	CSA DEKRA Certification B.V.	C22.2	1465035



### Ship Approvals

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

	<b>ABS</b> American Bureau of Shipping	-	19- HG1869876- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> UL International Germany GmbH	UL 1977	E45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172- 20180417

### Counterpart

	<b>Item no.733-103</b> 1-conductor female plug; 100% protected against mismatching; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 3-pole; 0,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/733-103">www.wago.com/733-103</a>
	<b>Item no.733-103/037-000</b> 1-conductor female plug; 100% protected against mismatching; Locking lever; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 3-pole; 0,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/733-103/037-000">www.wago.com/733-103/037-000</a>

### Compatible products

#### Coding

	<b>Item no.: 733-330</b> Coding key; snap-on type; white	<a href="http://www.wago.com/733-330">www.wago.com/733-330</a>
	<b>Item no.: 733-331</b> Coding key; snap-on type; black	<a href="http://www.wago.com/733-331">www.wago.com/733-331</a>

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



## Downloads

### CAD/CAE-Data

#### CAD data

2D/3D Models 733-333	<a href="#">URL</a>	<a href="#">Download</a>
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#### CAE data

EPLAN Data Portal 733-333	<a href="#">URL</a>	<a href="#">Download</a>
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#### PCB Design

Symbol and Footprint 733-333	<a href="#">URL</a>	<a href="#">Download</a>
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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.

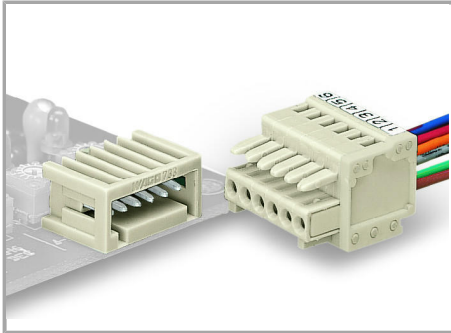
#### Supported formats:

- Accel EDA 14 & 15
- 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

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

## Installation Notes

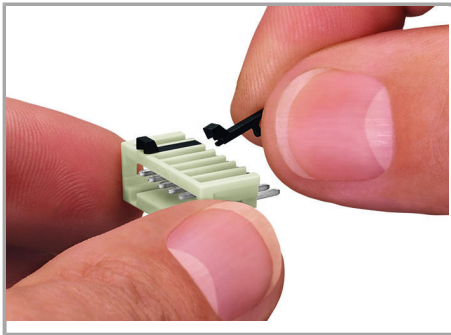
### Mismatching protection



Male headers and female connectors are 100 % protected against mismatching.

Only mating halves with the same pole number can be connected.

### Coding



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!