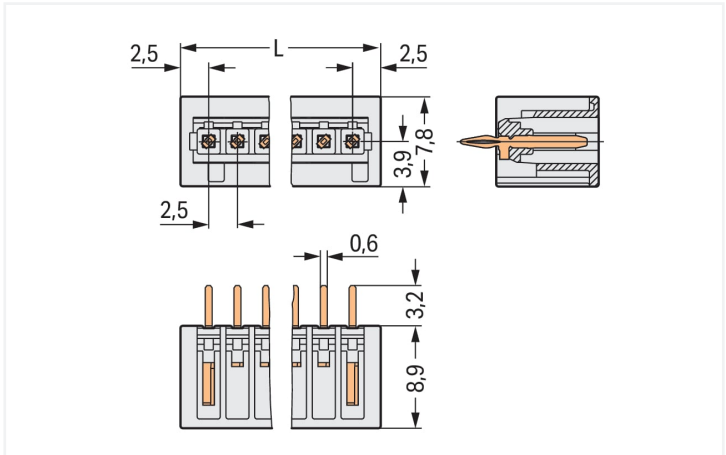
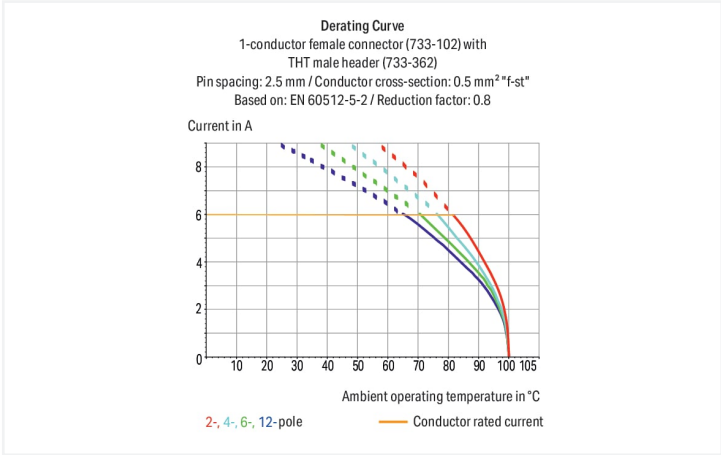




Color: ■ light gray



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



- 100% protected against mismatching; only mating halves with the same number of poles can be connected together
- Coding via coding fingers

### Notes

Safety information 1

Variants:

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.

Other pole numbers  
Information on press-in tool design  
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	
Ratings per	IEC/EN 60664-1	Rated surge voltage (III/2)	2.5 kV
Nominal voltage (III/3)	80 V	Rated current	4 A
Rated impulse voltage (III/3)	2.5 kV	Legend (ratings)	(III / 2) Δ Overvoltage category III / Pollution degree 2
Rated voltage (III/2)	160 V		
Rated impulse voltage (III/2)	2.5 kV		
Nominal voltage (III/2)	320 V		



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	12
Number of connection types	1
Number of levels	1

Connection 1	
Pole number	12

Physical data	
Pin spacing	2.5 mm / 0.098 inch
Width	32.5 mm / 1.28 inch
Height	12.1 mm / 0.476 inch
Height from the surface	8.9 mm / 0.35 inch
Depth	7.8 mm / 0.307 inch
Press-in pin: length	3.2 mm
Press-in pin: dimensions	0.6 x 1.2 mm
Press-in pin: drilled hole diameter	1.15 <sup>(-0.025 ... +0.025)</sup> mm
Press-in pin: plated through-hole diameter (HAL Sn)	1 <sup>(-0.06 ... +0.09)</sup> mm
Press-in pin: plated through-hole diameter (Chem. Sn)	1 <sup>(-0 ... +0.09)</sup> mm

Mechanical data	
Variable coding	Yes

Plug-in 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	PressIn



Material data	
Note (material data)	<a href="#">Information on material data can be found here</a>
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.028 MJ
Weight	1.7 g





Environmental requirements	
Limit temperature range	-40 ... +85 °C

Commercial data	
Product Group	3 (Multi Conn. System)
PU (SPU)	100 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4045454750367
Customs tariff number VKOrg Germany	85366990990
End of Sale	2021-03-26
End of Production	2021-03-31
End of Delivery	2021-04-10
End of Service and Repair	2023-03-26

Downloads	
Documentation	
Additional Information	
Technical Section	03.04.2019 pdf 1949.09 KB 

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 733-342/100-000 	ZUKEN Portal 733-342/100-000 

1 Compatible products	
1.1 Optional accessories	
1.1.1 Coding	
1.1.1.1 Coding	
	
Item no.: 733-330 Coding key; snap-on type	Item no.: 733-331 Coding key; snap-on type

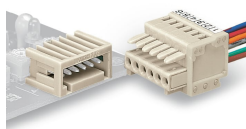
## Installation notes



Unique features of WAGO press-in technology:

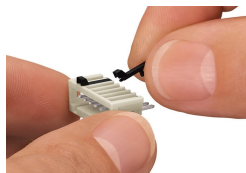
- Press-in pin features spring-loaded style expanding contact zone to provide greater retention and stability
- Suitable for all printed circuit boards with the correct tin plating for press-in connectors
- Metal-plated hole with optimum diameter
- 1.0 or 1.45 mm (HAL Sn)
- 1.0 or 1.45 mm (chemical Sn)
- Press-in pin for PCB thickness from 1.4 to 3 mm
- Press-in length of approximately 3.2 mm
- – no unnecessary projection on underside of PCB
- Low press-in force required
- – reduces wear and tear on PCB and components
- Robust bonded connection
- Excellent elastic spring behavior between the contact points
- No deformation of the metal-plated end hole
- Length of contact area  $\geq 1.3$  mm
- No deformation of multilayer PCBs
- Minimal tin removal in the contact hole
- – reduces wear and tear on PCB and contact points

## Mismating protection



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

## Coding



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

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

Current addresses can be found at: [www.wago.com](https://www.wago.com)