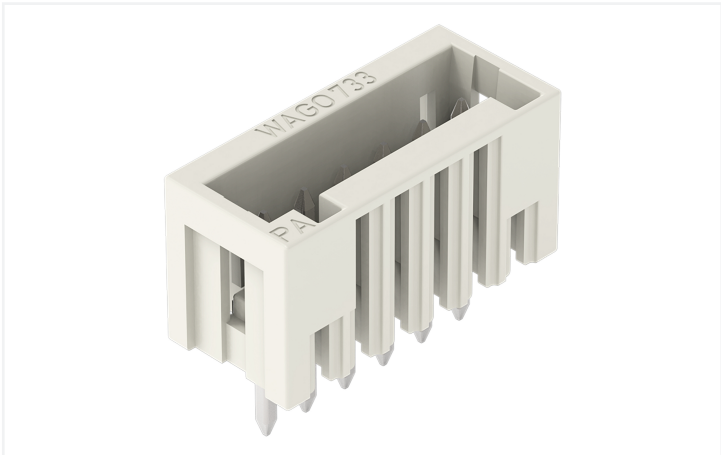


Data Sheet | Item Number: 733-338

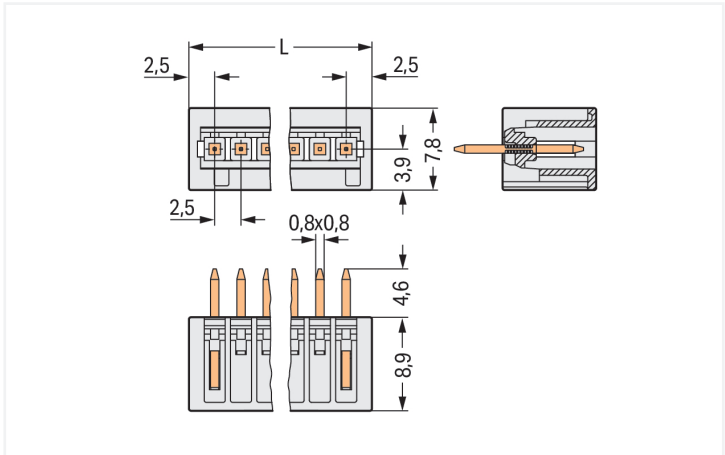
THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mis-mating; Pin spacing 2.5 mm; 8-pole; light gray

<https://www.wago.com/733-338>



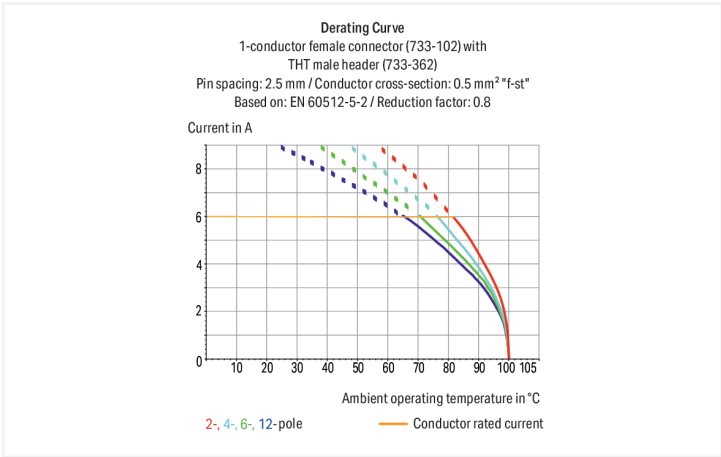
Color: ■ light gray

Similar to illustration



Dimensions in mm

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



Stiftleiste Serie 733 mit Lötstiftabmessungen 0,8 x 0,8 mm

Die Stiftleiste hat die Artikelnummer 733-338 und verspricht eine fehlerfreie Elektroinstallation. Mit unseren Leiterplatten-Steckverbindern erhalten Sie ein universelles Steckverbindersystem, das vielseitig verwendet werden kann: als Leiterplatten-Steckverbinder, als Durchführungssteckverbinder, als fliegende Steckverbindung für verschiedene Montagearten oder als Steckverbinder auf Reihenklemmen. Die Abmessungen sind in Breite x Höhe x Tiefe (22,5 x 13,5 x 7,8) mm. Für die Kontaktoberfläche wurde Zinn verwendet. Das MCS – "Multi Connection System" von WAGO umfasst insgesamt 7 Familien in den Rastermaßen 2,5 mm bis 10,16 mm und bietet mit dem Leiterquerschnittsbereich von 0,08 bis 25 mm² ein großes Portfolio an Einsatzmöglichkeiten. Der Leiterplatten-Steckverbinder wird mittels THT auf die Platine gelötet.

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 60664-1		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	80 V	160 V	320 V	
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV	
Rated current	6 A	6 A	6 A	
Approvals per		CSA		
Use group	B	C	D	
Rated voltage	150 V	-	-	
Rated current	4 A	-	-	

Approvals per		UL 1059		
Use group	B	C	D	
Rated voltage	150 V	-	-	
Rated current	4 A	-	-	

Connection data				
Total number of potentials	8	Connection 1		
Number of connection types	1	Pole number	8	
Number of levels	1			
Physical data				
Pin spacing		2.5 mm / 0.098 inches		
Width		22.5 mm / 0.886 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 ^(+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		
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 (main housing)		Polyamide (PA66)
Flammability class per UL94		V0
Contact material		Electrolytic copper (E _{CU})
Contact Plating		Tin
Fire load		0.02 MJ
Weight		1.1 g

Environmental requirements		
Limit temperature range	-60 ... +100 °C	Environmental Testing (Environmental Conditions)
Processing temperature	-35 ... +60 °C	
		Test specification Railway applications – Rolling stock – Electronic equipment
		DIN EN 50155 (VDE 0115-200):2022-06
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests
		DIN EN 61373 (VDE 0115-0106):2011-04
		Spectrum/Installation location
		Service life test, Category 1, Class A/B
		Function test with noise-like vibration
		Test passed according to Section 8 of the standard
		Frequency
		f ₁ = 5 Hz to f ₂ = 150 Hz
		Acceleration
		0.101g (highest test level used for all axes)
		Test duration per axis
		10 min.
		Test directions
		X, Y and Z axes
		Monitoring for contact faults/interruptions
		Passed
		Voltage drop measurement before and after each axis
		Passed
		Simulated service life test through increased levels of noise-like vibration
		Test passed according to Section 9 of the standard
		Frequency
		f ₁ = 5 Hz to f ₂ = 150 Hz
		Acceleration
		0.572g (highest test level used for all axes)
		Test duration per axis
		5 h
		Test directions
		X, Y and Z axes
		Extended test scope: Monitoring for contact faults/interruptions
		Passed
		Extended test scope: Voltage drop measurement before and after each axis
		Passed
		Shock test
		Test passed according to Section 10 of the standard
		Shock form
		Half sine
		Acceleration
		5g (highest test level used for all axes)
		Shock duration
		30 ms
		Number of shocks per axis
		3 pos. und 3 neg.
		Test directions
		X, Y and Z axes
		Extended test scope: Monitoring for contact faults/interruptions
		Passed
		Extended test scope: Voltage drop measurement before and after each axis
		Passed
		Vibration and shock stress for rolling stock equipment
		Passed



Commercial data		
Product Group	3 (Multi Conn. System)	
PU (SPU)	200 pcs	
Packaging type	Box	
Country of origin	CN	
GTIN	4050821035664	
Customs tariff number	85366930000	

Product classification		
UNSPSC	39121409	
eCl@ss 10.0	27-44-04-02	
eCl@ss 9.0	27-44-04-02	
ETIM 9.0	EC002637	
ETIM 8.0	EC002637	
ECCN	NO US CLASSIFICATION	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
   					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61984	2169534.01	Railway WAGO GmbH & Co. KG	-	Railway Ready
CCA DEKRA Certification B.V.	IEC 61984	NL-31141			
CSA DEKRA Certification B.V.	C22.2	1465035			
UL UL International Germany GmbH	UL 1977	E45171			
UL Underwriters Laboratories Inc.	UL 1059	E45172			

Approvals for marine applications

  		
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 733-338

↓

Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models 733-338

↓

CAE data

EPLAN Data Portal 733-338

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ZUKEN Portal 733-338

↓

PCB Design

Symbol and Footprint via SamacSys 733-338

↓

Symbol and Footprint via Ultra Librarian 733-338

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[Item No.: 733-108](#)
1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 8-pole; 100% protected against mismatching; 0,50 mm²; light gray

[Item No.: 733-108/037-000](#)
1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 8-pole; 100% protected against mismatching; Lateral locking levers; 0,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



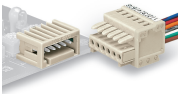
[Item No.: 733-331](#)
Coding key; snap-on type; black



[Item No.: 733-330](#)
Coding key; snap-on type; white

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



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