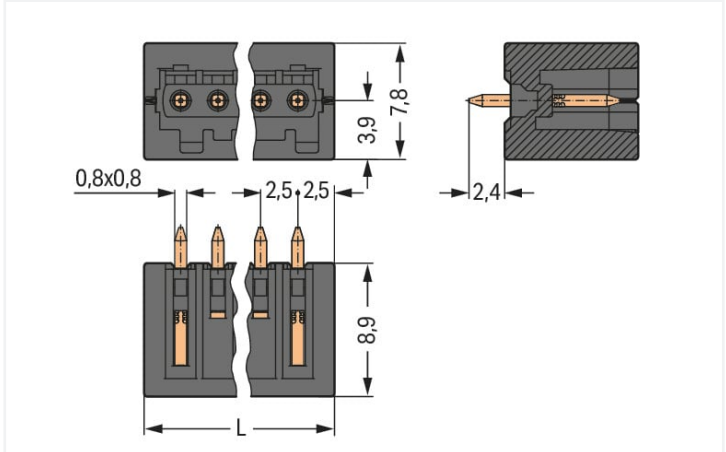


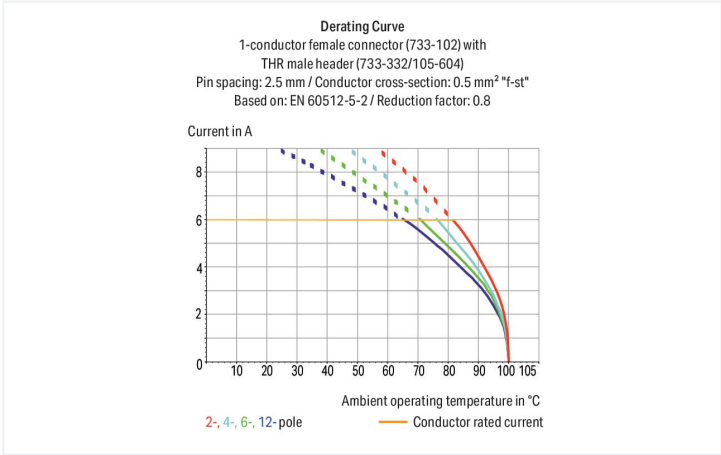


Color: ■ black

Similar to illustration



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



- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Optimal thermal penetration via pin enclosure design provides lower soldering temperatures
- 100% protected against mismatching
- Coding option available

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 Other solder pin lengths 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	4	Connection 1		
Number of connection types	1	Pole number	4	
Number of levels	1			
Physical data				
Pin spacing	2.5 mm / 0.098 inches			
Width	12.5 mm / 0.492 inches			
Height	11.3 mm / 0.445 inches			
Height from the surface	8.9 mm / 0.35 inches			
Depth	7.8 mm / 0.307 inches			
Solder pin length	2.4 mm			
Solder pin dimensions	0.8 x 0.8 mm			
Plated through-hole diameter (THR)	1.2 ^(+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	THR			
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	black	
Material group	I	
Insulation material	Polyphthalamide (PPA GF)	
Flammability class per UL94	V0	
Contact material	Electrolytic copper (E _{CU})	
Contact plating	Tin	
Fire load	0.014 MJ	
Weight	0.7 g	
MSL per J-STD 020D	1	

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)	200 pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4045454676094	
Customs tariff number	85366930000	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates

General approvals			Approvals for marine applications		
   			 		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61984	2169534.01	ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
CCA DEKRA Certification B.V.	IEC 61984	NL-31141	DNV DNV GL SE	-	TAE000016Z
CSA DEKRA Certification B.V.	C22.2	1465035			
UL UL International Germany GmbH	UL 1977	E45171			
UL Underwriters Laboratories Inc.	UL 1059	E45172			

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance

733-334/105-604

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

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pdf

535.32 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models

733-334/105-604

↓

CAE data

ZUKEN Portal

733-334/105-604

↓

PCB Design

Symbol and Footprint via SamacSys

733-334/105-604

↓

Symbol and Footprint via Ultra Librarian

733-334/105-604

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 733-104
1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismatching; 0,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

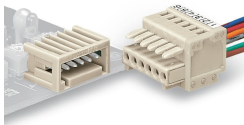
1.2.1.1 Coding



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

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).