

Data Sheet | Item Number: 734-146/108-000

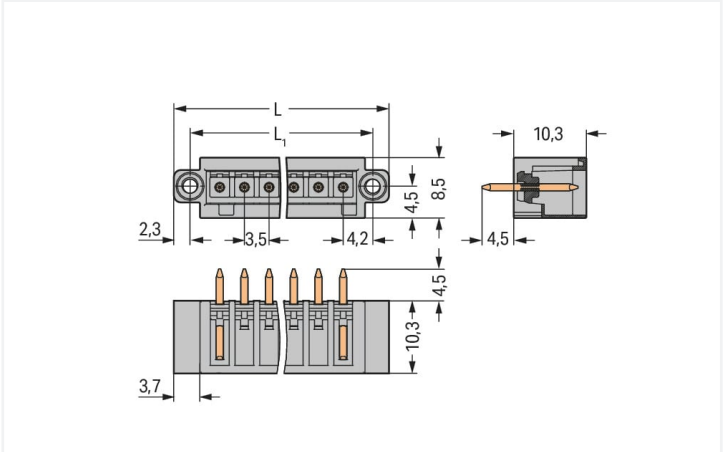
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 16-pole; light gray

<https://www.wago.com/734-146/108-000>



Color: ■ light gray

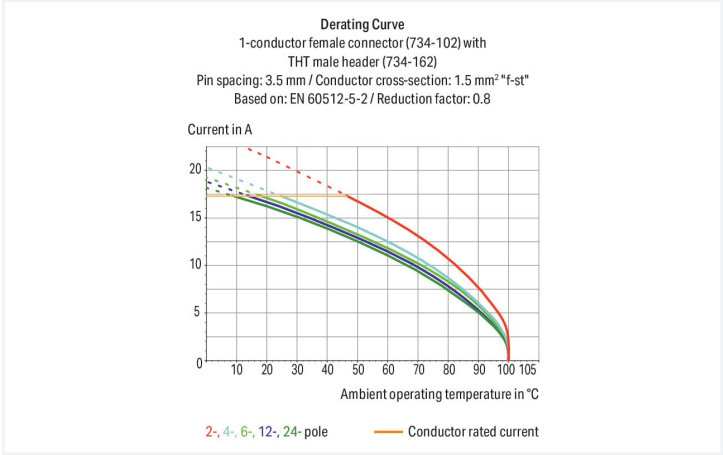
Similar to illustration



Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 9.5 \text{ mm}$

$L1 = (\text{pole no.} \times \text{pin spacing}) + 4.9 \text{ mm}$



- 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 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 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/ .		
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Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		160 V	160 V	320 V
Rated surge voltage		2.5 kV	2.5 kV	2.5 kV
Rated current		10 A	10 A	10 A
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		10 A	-	10 A



Approvals per		CSA	
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Connection data			
Total number of potentials	16	Connection 1	
Number of connection types	1	Pole number	16
Number of levels	1		

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	65.5 mm / 2.579 inches
Height	14.8 mm / 0.583 inches
Height from the surface	10.3 mm / 0.406 inches
Depth	8.5 mm / 0.335 inches
Solder pin length	4.5 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 (+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 °
Locking of plug-in connection	Threaded flange

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	0.068 MJ
Weight	4.2 g



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)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454618711
Customs tariff number	85366930000

Environmental Product Compliance	
CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	4ef5bd50-00ff-474c-ac76-82108a7be69d
SCIP notification number (Belgium)	09c7a059-868a-470b-abae-775dbd43f6e6
SCIP notification number (Bulgaria)	12dc0481-9768-4c33-897c-591489534b15
SCIP notification number (Czech Republic)	1e94e63f-682a-40e6-b0ac-a276d806dc6b
SCIP notification number (Denmark)	b2a024ef-9e64-4705-84a6-76e3de1ca9c3
SCIP notification number (Finland)	340284da-5156-4888-82c8-04c4b28005be
SCIP notification number (France)	d7771db7-00bf-4082-ae65-eaf67c685623
SCIP notification number (Germany)	2e70b088-bd0c-45d4-baa9-98dfd493867f
SCIP notification number (Hungary)	83bc102f-58bd-422d-984f-72a6ec2ce240
SCIP notification number (Italy)	ebd6ff26-7954-4eba-85ce-6ec7c93a2f2e
SCIP notification number (Netherlands)	fe7207f5-6b08-4871-9236-37b5ae9b6ee2
SCIP notification number (Poland)	9fbbdf44-ac7a-4eef-85e1-4ce129c83298
SCIP notification number (Romania)	aa0c3b09-0e91-4ad2-8c30-4ac42a37979c
SCIP notification number (Sweden)	04ef2192-b92f-4104-bb7e-5ab67107bf6d

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1465035	Railway WAGO GmbH & Co. KG	-	Railway Ready
UL Underwriters Laboratories Inc.	UL 1977	E 45171			
UR Underwriters Laboratories Inc.	UL 1059	E45172			



Approvals for marine applications



Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 734-146/108-000



Documentation

Additional Information
Technical Section 03.04.2019 pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 734-146/108-000



CAE data
ZUKEN Portal 734-146/108-000



PCB Design

Symbol and Footprint via SamacSys 734-146/108-000
Symbol and Footprint via Ultra Librarian 734-146/108-000



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[Item No.: 734-116/107-000](#)
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray



[Item No.: 2734-116/107-000](#)
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



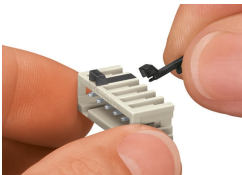
[Item No.: 734-159](#)
Coding key; to be snapped above top level; black



[Item No.: 734-130](#)
Coding key; to be snapped above top level; white

Installation Notes

Coding



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