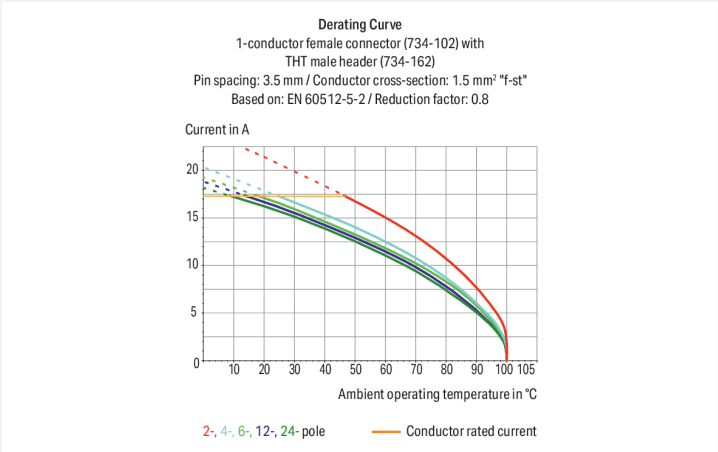
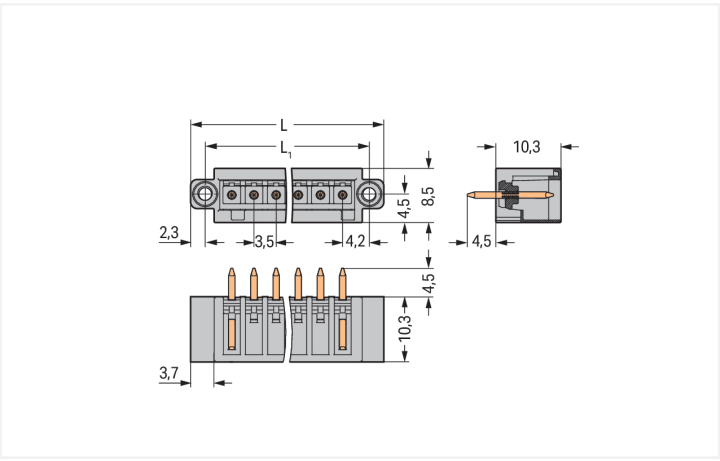
Data Sheet | Item Number: 734-148/108-000

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Threaded flange; Pin spacing 3.5 mm; 18-pole; light gray

https://www.wago.com/734-148/108-000



Color: light gray



Dimensions in mm
L = (pole no. x pin spacing) + 9.5 mmL1 = (pole no. x pin spacing) + 4.9 mm

Male connector, 734 Series, solder pin dimensions 1 x 1 mm

This male connector (item number 734-148/108-000) is designed for hassle-free electrical installations. The dimensions are (72.5 x 14.8 x 8.5) mm (width x height x depth).

Tin is used for coating the contact surfaces. THT is used to solder the pcb connector.

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/.

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 impulse withstand 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	18
Number of connection types	1
Number of levels	1

Connection 1

Pole number	18

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	72.5 mm / 2.854 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	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 (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact Plating	Tin
Fire load	0.067 MJ
Weight	4.7 g

Environmental requirements

Limit temperature range	-60 … +100 °C
Processing temperature	-35 … +60 °C

Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	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 of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	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 testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard

Environmental Testing

Shock pulse 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 testing: Monitoring of contact faults and interruptions	Passed
Extended testing: 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)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454759094
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 10.0	EC002637
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	185f7e5b-eedc-44c6-834e-9f919dd0a9bb
SCIP notification number (Belgium)	482bb822-4573-4388-bb90-eb2910548322
SCIP notification number (Bulgaria)	0a42ef0a-bd59-42d3-83c6-5d50b9951341
SCIP notification number (Czech Republic)	c688fc82-29b4-4a52-a683-94c6fe007d14
SCIP notification number (Denmark)	0ff8c66d-9cbf-4c93-a9d1-720ef61e62bc
SCIP notification number (Finland)	1df6a8c7-b2a6-41df-af13-24a22178c899
SCIP notification number (France)	b9f721f6-d302-440b-8747-abab99b09562
SCIP notification number (Germany)	2902042f-693f-4e44-9733-aea2e40ab677
SCIP notification number (Hungary)	37648966-f21b-4f14-9894-62adbaac87f1
SCIP notification number (Italy)	8c5b2948-fb44-495a-8fde-ed790e6e3182
SCIP notification number (Netherlands)	a4338b87-7e16-413d-9670-e3eb3a975ada
SCIP notification number (Poland)	904d6d88-2458-4f6d-b999-17fe81315bdf
SCIP notification number (Romania)	ce739e7f-9ebf-42cc-9896-2319f909acad
SCIP notification number (Sweden)	39a8c13e-3901-416c-8d72-7c2a4787dafe

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1465035
UL Underwriters Laboratories Inc.	UL 1977	E 45171

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

Approvals for marine applications

Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	IEC 60998	11915/E0 BV

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
734-148/108-000

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB

CAD/CAE-Data

CAD data

2D/3D Models
734-148/108-000

CAE data

ZUKEN Portal
734-148/108-000

PCB Design

Symbol and Footprint
via SamacSys
734-148/108-000

Symbol and Footprint
via Ultra Librarian
734-148/108-000

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

Item No.: 734-118/107-000
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismating; Screw flange; light gray

Item No.: 2734-118/107-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismating; Screw flange; light gray

1.2 Optional Accessories

1.2.1 Coding

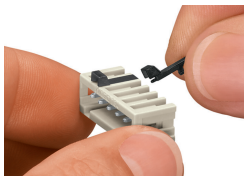
1.2.1.1 Coding

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).