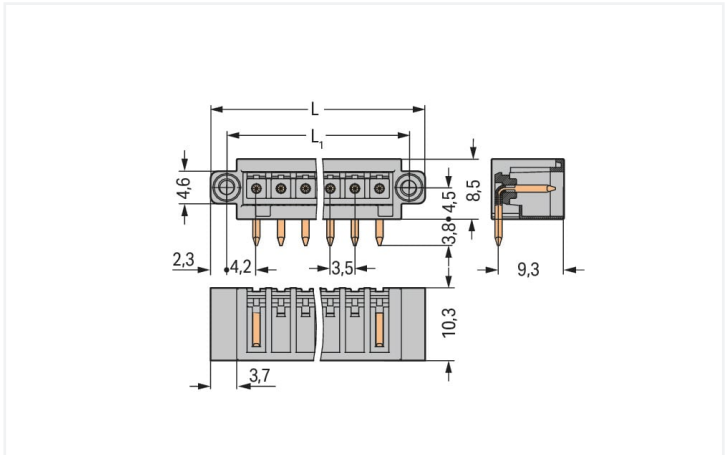


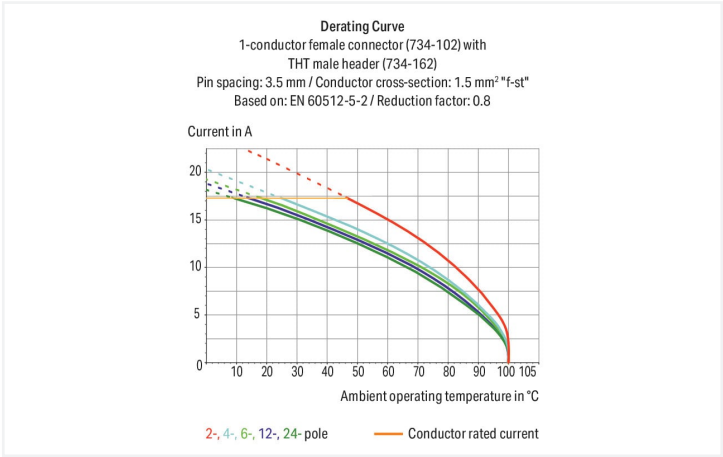
Data Sheet | Item Number: 734-180/108-000
THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 20-pole; light gray
<https://www.wago.com/734-180/108-000>



Color: ■ light gray Similar to illustration



Dimensions in mm
L = (pole no. x pin spacing) + 9.5 mm
L1 = (pole no. x pin spacing) + 4.9 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/ .		

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	20	Connection 1	
Number of connection types	1	Pole number	20
Number of levels	1		

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	79.5 mm / 3.13 inches
Height	12.3 mm / 0.484 inches
Height from the surface	8.5 mm / 0.335 inches
Depth	10.3 mm / 0.406 inches
Solder pin length	3.8 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	0 °
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	0.081 MJ
Weight	5.8 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	4045454759162
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)	a469fecf-152a-4b82-b1d0-2e93e8468757
SCIP notification number (Belgium)	27360a9d-afdb-4144-9616-82d5ba39ce08
SCIP notification number (Bulgaria)	b7487bc0-7c56-4b5b-a297-d251ce8bc8c4
SCIP notification number (Czech Republic)	871f026a-27a2-4a0d-abf8-3cfc5ed613f0
SCIP notification number (Denmark)	3ff7ea35-badb-47ed-897d-dd4cb5a67732
SCIP notification number (Finland)	31e5b191-67cd-43d1-9ef7-5b2596548600
SCIP notification number (France)	71d9e221-12cd-40bc-8a23-25923877bf03
SCIP notification number (Germany)	eea26a99-a406-4840-82c6-5247b4ca9b15
SCIP notification number (Hungary)	339c3f60-7b63-4d7c-9e2a-25e3bb8b1685
SCIP notification number (Italy)	2e38d53e-7416-4d6b-85e4-1dd8ab28019e
SCIP notification number (Netherlands)	32db9d19-f8b0-4316-8bc6-2ee4fda43bca
SCIP notification number (Poland)	bed00476-8e1a-4f87-b873-26841c7dc219
SCIP notification number (Romania)	5f3976b5-c9c7-4bee-959e-233b7fe34997
SCIP notification number (Sweden)	c5f5e9b4-aa6d-4bee-8869-e1701d93f757

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 734-180/108-000	



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 734-180/108-000	

CAE data	
ZUKEN Portal 734-180/108-000	

PCB Design	
Symbol and Footprint via SamacSys 734-180/108-000	
Symbol and Footprint via Ultra Librarian 734-180/108-000	

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[Item No.: 734-120/107-000](#)
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray



[Item No.: 2734-120/107-000](#)
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-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



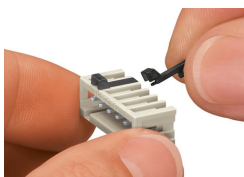
[Item No.: 734-159](#)
Coding key; to be snapped above top level; black



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

Installation Notes

Coding



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