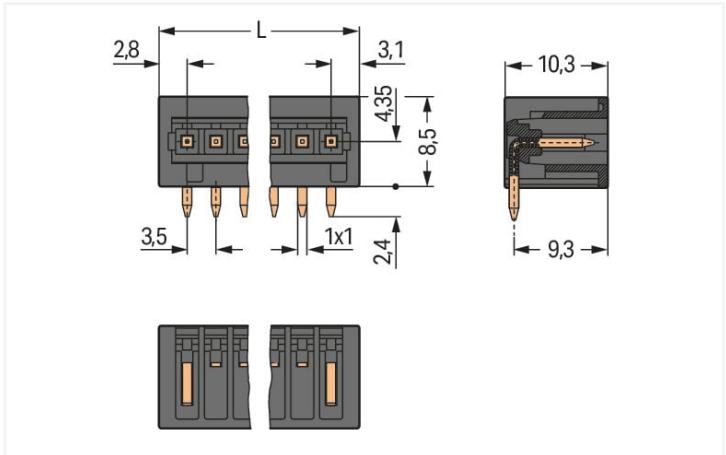


Data Sheet | Item Number: 734-168/105-604
THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 8-pole; black
<https://www.wago.com/734-168/105-604>

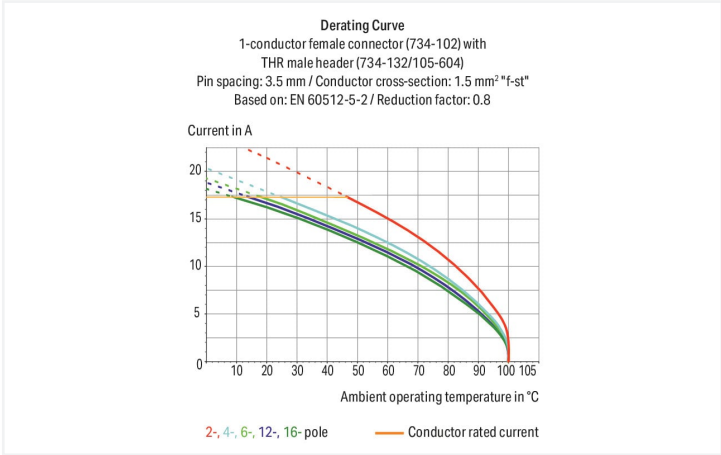


Color: ■ black

Similar to illustration



Dimensions in mm
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$



- 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 via coding fingers

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	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		CSA		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	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	

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	3.5 mm / 0.138 inches			
Width	30.4 mm / 1.197 inches			
Height	10.9 mm / 0.429 inches			
Height from the surface	8.5 mm / 0.335 inches			
Depth	10.3 mm / 0.406 inches			
Solder pin length	2.4 mm			
Solder pin dimensions	1 x 1 mm			
Plated through-hole diameter (THR)	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°			
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	0.045 MJ
Weight	2.2 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)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918848930
Customs tariff number	85366930000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 734-168/105-604	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2010.85 KB	
		pdf 535.32 KB	

CAD/CAE-Data

CAD data
2D/3D Models 734-168/105-604



CAE data
EPLAN Data Portal 734-168/105-604
ZUKEN Portal 734-168/105-604



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 734-108
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismatching; 1,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



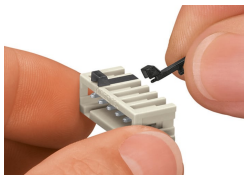
Item No.: 734-159
Coding key; to be snapped above top level; black



Item No.: 734-130
Coding key; to be snapped above top level; white

Installation Notes

Coding



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