

Data Sheet | Item Number: 734-410

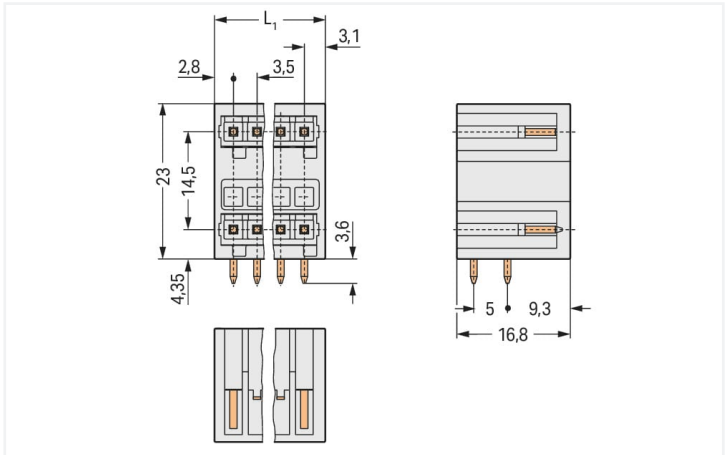
THT double-deck male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 3.5 mm; 20-pole; light gray

<https://www.wago.com/734-410>

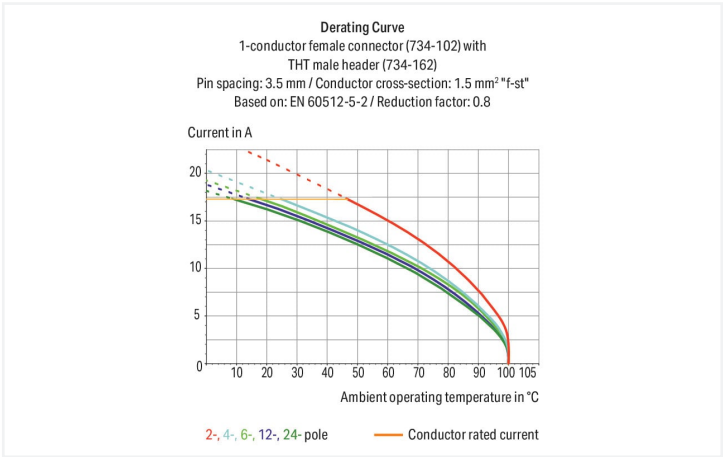


Color: ■ light gray

Similar to illustration



Dimensions in mm
 $L1 = (\text{pole no.}/2 - 1) \times \text{pin spacing} + 5.9 \text{ mm}$



- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismating; 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	2		

Physical data		
Pin spacing	3.5 mm / 0.138 inches	
Width	37.4 mm / 1.472 inches	
Height	26.6 mm / 1.047 inches	
Height from the surface	23 mm / 0.906 inches	
Depth	16.8 mm / 0.661 inches	
Solder pin length	3.6 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 °	

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	0.189 MJ	
Weight	10.9 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	4044918873017
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	2169534.02	ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
CCA DEKRA Certification B.V.	EN 61984	nl-54190	DNV DNV GL SE	-	TAE000016Z
UL Underwriters Laboratories Inc.	UL 1977	E 45171	LR Lloyds Register	IEC 61984	96/20035 (E5)

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 734-410	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 734-410 	EPLAN Data Portal 734-410 
	ZUKEN Portal 734-410 

PCB Design	
Symbol and Footprint via SamacSys 734-410 	
Symbol and Footprint via Ultra Librarian 734-410 	

1 Compatible Products

1.1 System counterpart
1.1.1 Female connector/socket



[Item No.: 734-110](#)
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-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.: 734-400](#)
Coding key; to be snapped above bottom level; light gray



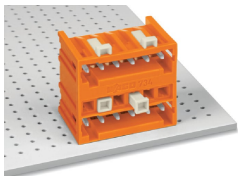
[Item No.: 734-159](#)
Coding key; to be snapped above top level; black



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

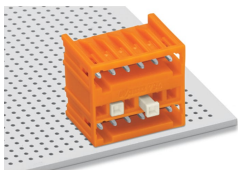
Installation Notes

Coding



Coding a THT double-deck male header.

Coding



Coding a THT double-deck male header – lower level.