

Data Sheet | Item Number: 713-1430

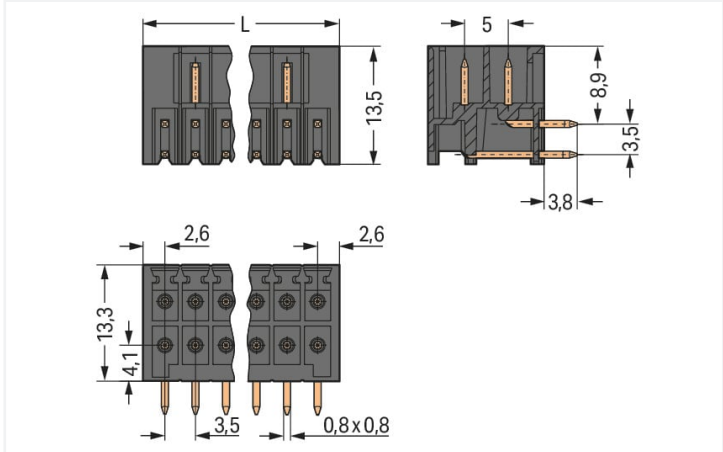
THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 20-pole; black

<https://www.wago.com/713-1430>

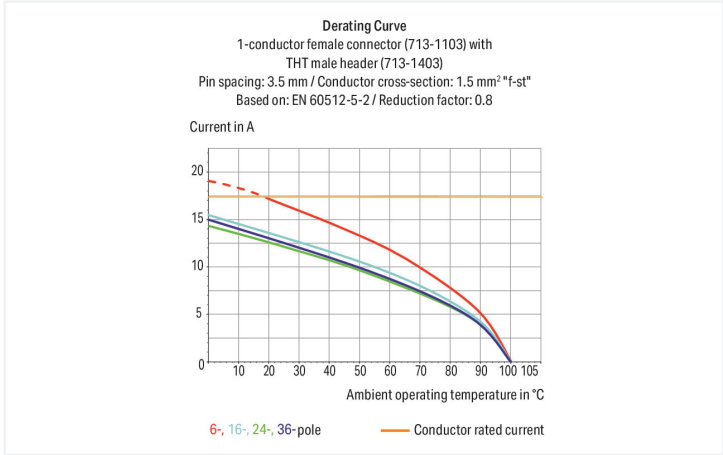
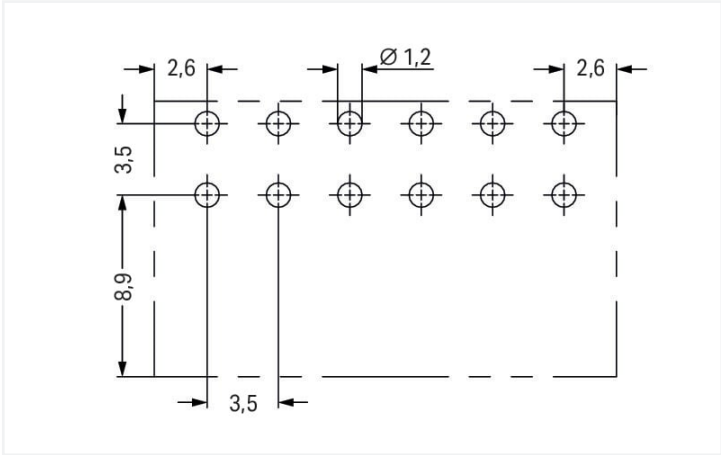


Color: ■ black

Similar to illustration



Dimensions in mm  
 $L = [(pole\ no./2) - 1] \times pin\ spacing + 5.2\ mm$



- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Header housing is molded of THT-compatible insulation material for lead-free reflow soldering
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- 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 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 <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .



Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	80 V	160 V	250 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	150 V	-	-	
Rated current	12 A	-	-	

Approvals per				UL 1059	
Use group	B		C	D	
Rated voltage	150 V		50 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	36.5 mm / 1.437 inches			
Height	17.1 mm / 0.673 inches			
Height from the surface	13.3 mm / 0.524 inches			
Depth	13.5 mm / 0.531 inches			
Solder pin length	3.8 mm			
Solder pin dimensions	0.8 x 0.8 mm			
Drilled hole diameter with tolerance	1.2 <sup>(+0.1)</sup> 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)		<a href="#">Information on material specifications can be found here</a>
Color		black
Material group		I
Insulation material		Polyphthalamide (PPA GF)
Flammability class per UL94		V0
Contact material		Electrolytic copper (E <sub>CU</sub> )
Contact plating		Tin
Fire load		0.108 MJ
Weight		5.6 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)	25 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454700218
Customs tariff number	85366930000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-102427
CSA CSA Group	C22.2	2315087
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-133740
UL Underwriters Laboratories Inc.	UL 1059	UL-US-L45172-6187124-22905991-1



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 713-1430

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

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CAD/CAE-Data

CAD data

2D/3D Models 713-1430

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CAE data

ZUKEN Portal 713-1430

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PCB Design

Symbol and Footprint via SamacSys 713-1430

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Symbol and Footprint via Ultra Librarian 713-1430

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1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



**Item No.: 713-1110/000-9037**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 100% protected against mismatching; direct marking; 1,50 mm²; black



**Item No.: 713-1110**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; 1,50 mm²; black



**Item No.: 713-1110/000-047**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; direct marking; 1,50 mm²; black



**Item No.: 713-1110/033-047**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm²; black



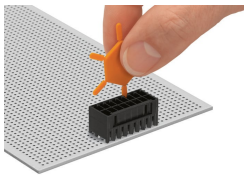
**Item No.: 713-1110/033-9037**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm²; black

1.2 Optional Accessories
1.2.1 Coding
1.2.1.1 Coding



Item No.: [714-101](#)  
Coding key; orange

Installation Notes
Coding



Coding a male header by inserting a coding pin.