

Data Sheet | Item Number: 713-1404

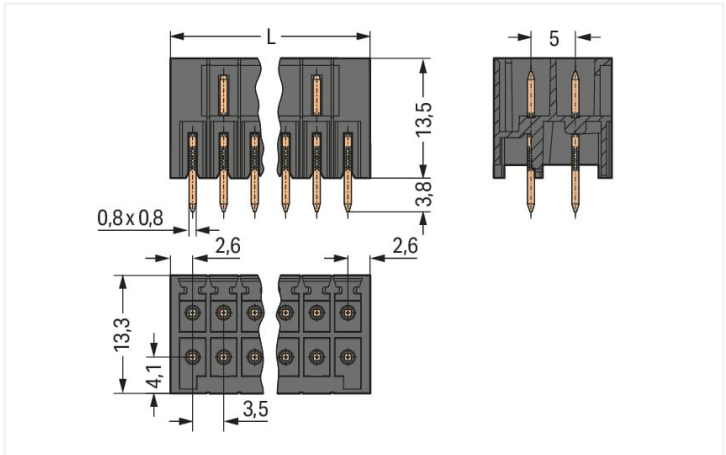
THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 8-pole; black

<https://www.wago.com/713-1404>

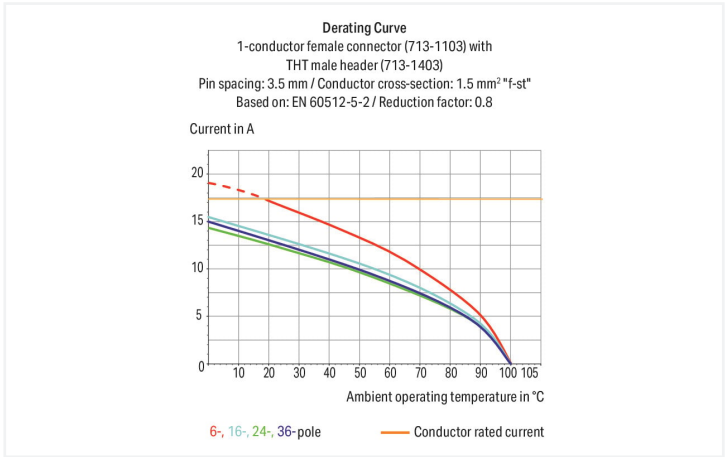
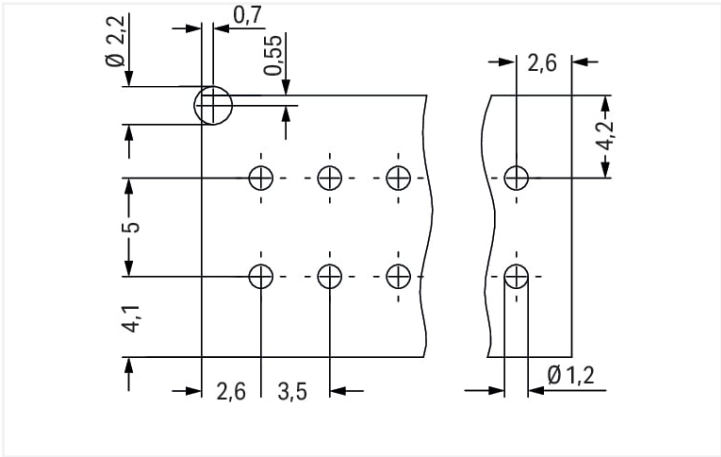


Color: ■ black

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 https://configurator.wago.com/ .



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				UL 1059			
Use group	B		C	D			
Rated voltage	150 V		50 V	-			
Rated current	10 A		10 A	-			

Approvals per				CSA			
Use group	B		C	D			
Rated voltage	150 V		-	-			
Rated current	12 A		-	-			

Connection data			
Total number of potentials	8	Connection 1	
Number of connection types	1	Pole number	8
Number of levels	2		

Physical data							
Pin spacing	3.5 mm / 0.138 inches						
Width	15.5 mm / 0.61 inches						
Height	17.3 mm / 0.681 inches						
Height from the surface	13.5 mm / 0.531 inches						
Depth	13.3 mm / 0.524 inches						
Solder pin length	3.8 mm						
Solder pin dimensions	0.8 x 0.8 mm						
Drilled hole diameter with tolerance	1.2 (+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 °						

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		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		0.05 MJ
Weight		2.3 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		PL
GTIN		4045454699994
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 713-1404

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Documentation

Additional Information

Technical Section03.04.2019pdf2027.26 KB

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CAD/CAE-Data

CAD data

2D/3D Models713-1404

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CAE data

ZUKEN Portal713-1404

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PCB Design

Symbol and Footprint via SamacSys713-1404

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Symbol and Footprint via Ultra Librarian713-1404

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1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 713-1104
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mis-mating; 1,50 mm²; black



Item No.: 713-1104/000-047
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mis-mating; direct marking; 1,50 mm²; black



Item No.: 713-1104/000-9037
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mis-mating; direct marking; 1,50 mm²; black



Item No.: 713-1104/032-047
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mis-mating; Strain relief plate; direct marking; 1,50 mm²; black



Item No.: 713-1104/032-9037
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mis-mating; Strain relief plate; direct marking; 1,50 mm²; black

1.2 Optional Accessories

1.2.1 Coding

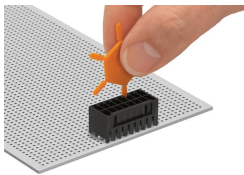
1.2.1.1 Coding



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

Installation Notes

Coding



Coding a male header by inserting a coding pin.