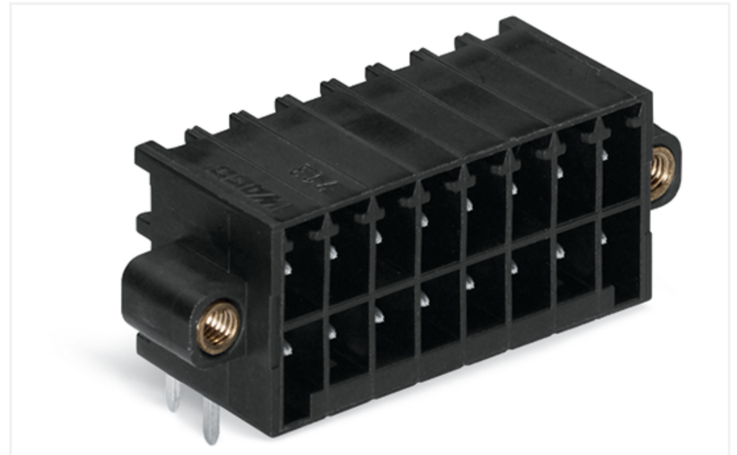


Data Sheet | Item Number: 713-1431/117-000/997-408

THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 22-pole; black

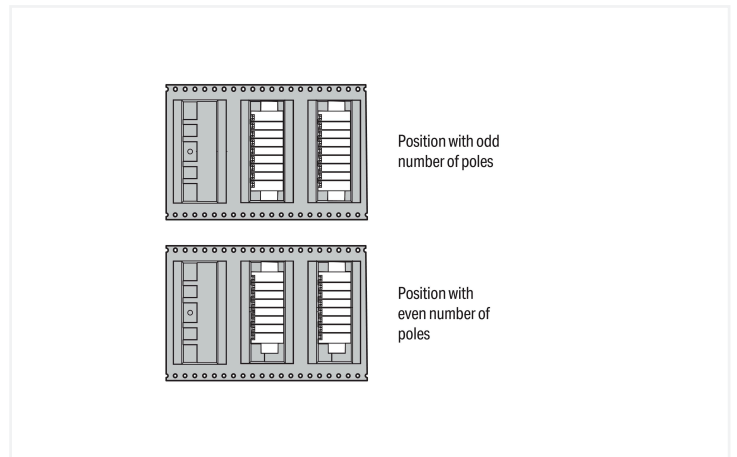
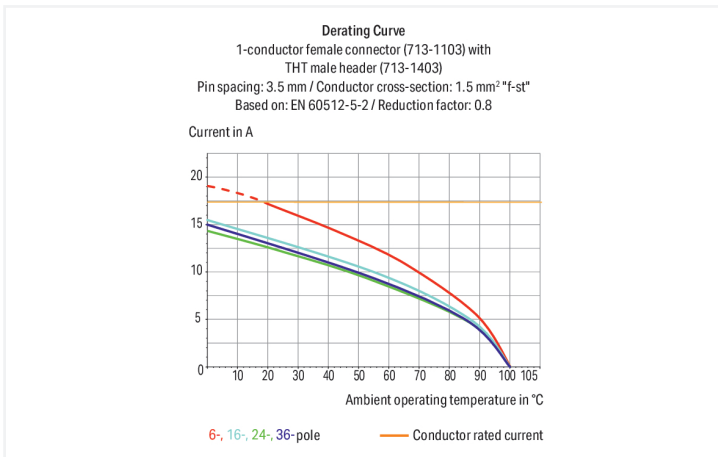
<https://www.wago.com/713-1431/117-000/997-408>



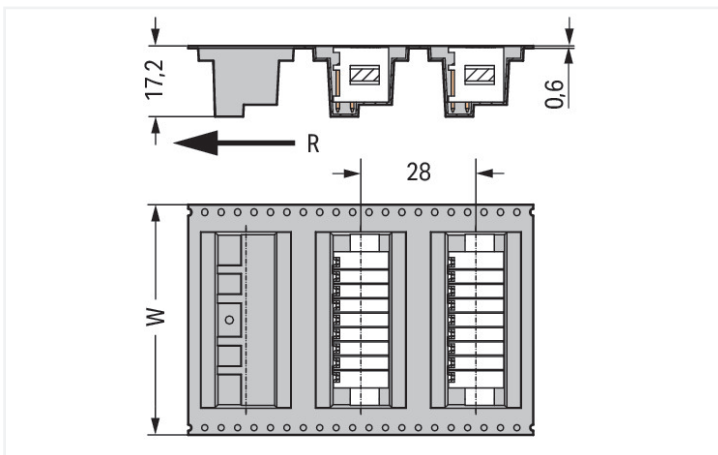
Color: ■ black

Similar to illustration

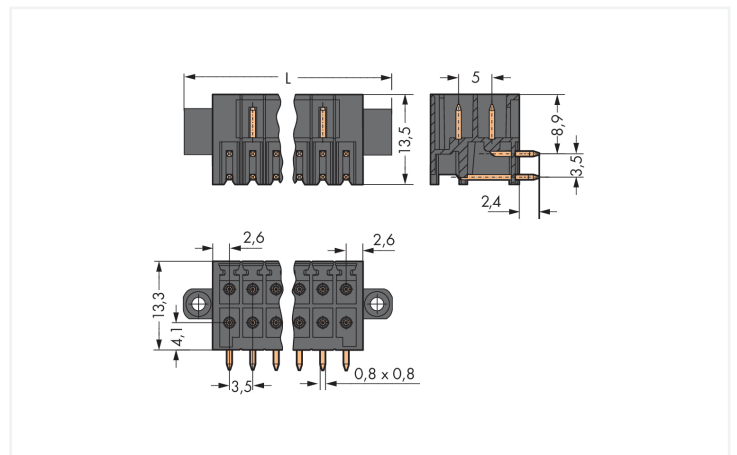
Similar to illustration



Dimensions in mm
 Pin position in tape-and-reel packaging



Dimensions in mm
 W = tape width R = feed direction



Dimensions in mm
 $L = [(pole\ no./2) - 1] \times pin\ spacing + 13.6\ mm$



Male connector, 713 Series, solder pin dimensions 0.8 x 0.8 mm

Our male connector (item number 713-1431/117-000/997-408) ensures effortless electrical installations. The item's dimensions are (48.6 x 15.7 x 13.5) mm (width x height x depth).

The contact surface is coated with tin. THR is used to assemble the pcb connector.

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			Approvals per	UL 1059		
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	150 V	50 V	-
Nominal voltage	80 V	160 V	250 V	Rated current	10 A	10 A	-
Rated impulse withstand 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	-	-

Connection Data

Total number of potentials	22	Connection 1	
Number of connection types	1	Pole number	22
Number of levels	2		

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	48.6 mm / 1.913 inches
Height	15.7 mm / 0.618 inches
Height from the surface	13.3 mm / 0.524 inches
Depth	13.5 mm / 0.531 inches
Solder pin length	2.4 mm
Solder pin dimensions	0.8 x 0.8 mm
Plated through-hole diameter (THR)	1.3 ^(±0.1) mm
Reel diameter of tape-and-reel packaging	330 mm
Tape width	72 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	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 (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0 MJ
Weight	7.1 g
MSL per J-STD 020D	1

Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

Commercial data

PU (SPU)	120 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4055143778855
Customs tariff number	85366930000

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 9.0	EC002637
ETIM 10.0	EC002637
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	b5bced4c-5aa3-47ab-84bb-9ad4189f7058
SCIP notification number (Belgium)	ff63f748-fe95-4fdc-b486-e34300b1f383
SCIP notification number (Bulgaria)	fb20916a-d158-4610-bda6-dac683db39f3
SCIP notification number (Czech Republic)	bdc5b373-5f2c-46b5-97d4-5b9879b4a6c6
SCIP notification number (Denmark)	176deb0c-d2c8-4283-8a34-bcb6dc57554f
SCIP notification number (Finland)	21502815-fe45-4846-b396-aa0a62cab015
SCIP notification number (France)	b0ddf025-2e4d-46ac-b879-cd61890522cd
SCIP notification number (Germany)	cf7bd8cc-0f9d-4eba-96b9-f88497326623
SCIP notification number (Hungary)	3e4b6d9b-5867-4e9d-9781-58412a9d7bc4
SCIP notification number (Italy)	d1b42b73-8196-4a0e-ae4-d99cf6593f41
SCIP notification number (Netherlands)	39bcf1a0-ab79-4034-8196-d90df2b006b3
SCIP notification number (Poland)	f7dae2a4-a305-4377-b86f-88f56a2d8225
SCIP notification number (Romania)	9b4eb744-f481-4ca3-869e-4e170039601a
SCIP notification number (Sweden)	ef038057-4f6b-4082-920e-810ce1a8a97c

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

Downloads

Environmental Product Compliance

Compliance Search



Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	
		pdf 535.32 KB	

CAD/CAE-Data

CAD data

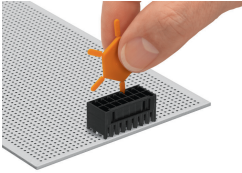


PCB Design



Installation Notes

Coding



Coding a male header by inserting a coding pin.