

Data Sheet | Item Number: 713-1438/117-000/997-409

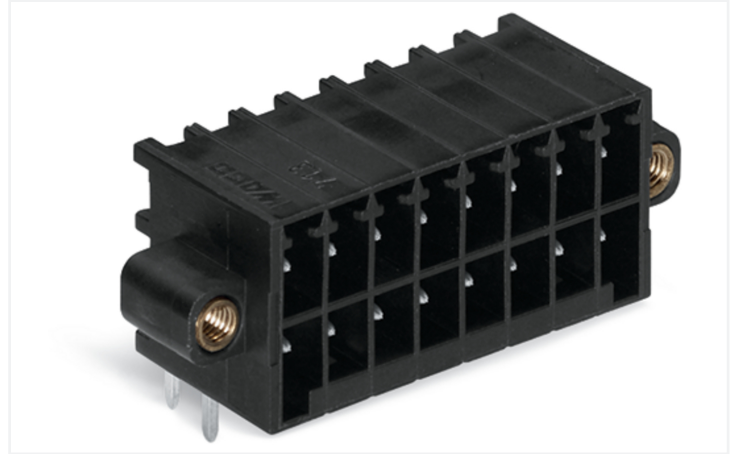
THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 36-pole; black

<https://www.wago.com/713-1438/117-000/997-409>

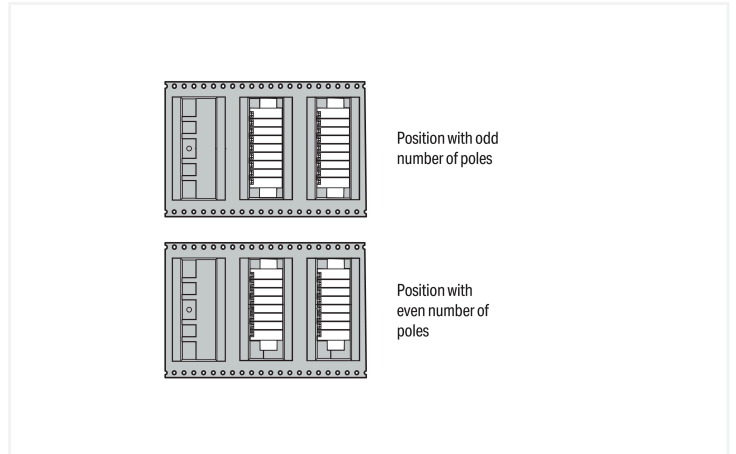
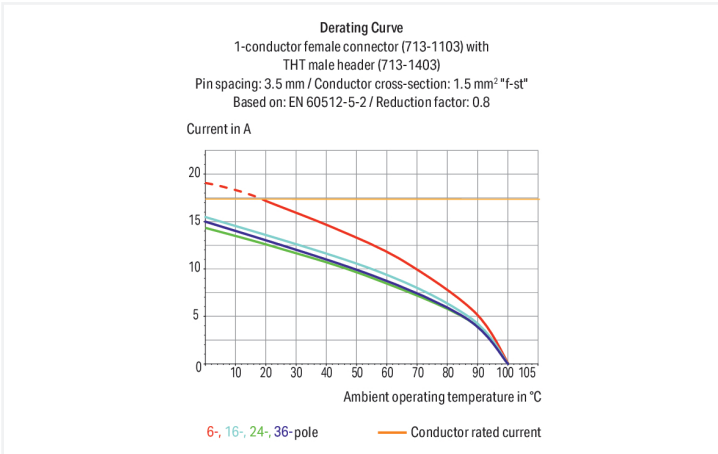


Color: ■ black

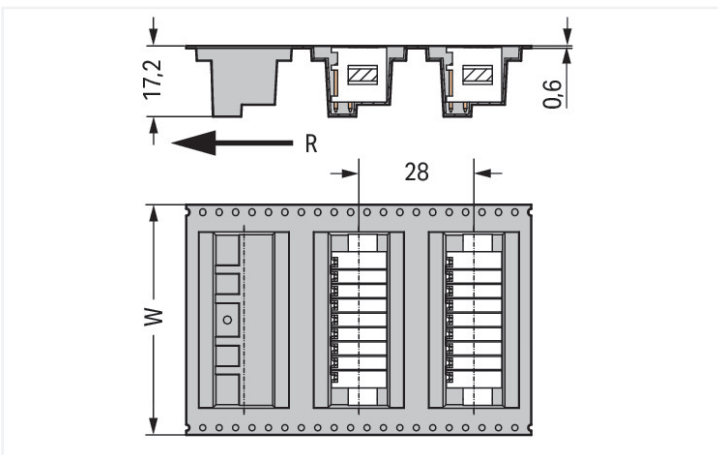
Similar to illustration



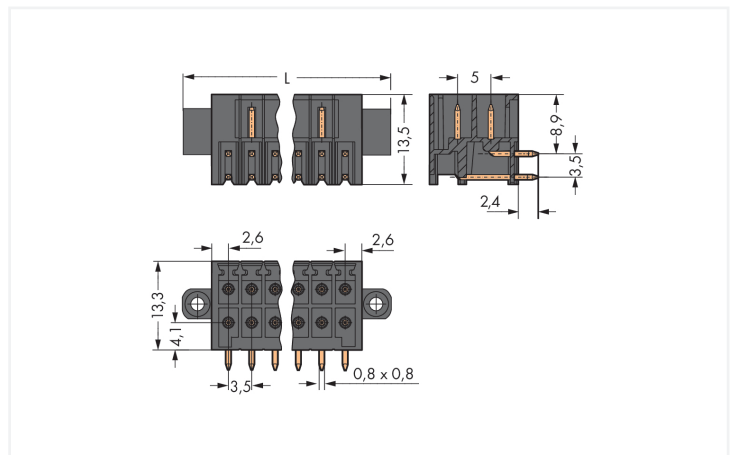
Similar to illustration



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

This male connector (item number 713-1438/117-000/997-409) is designed for fault-free electrical installations. Dimensions: (73.1 x 15.7 x 13.5) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THR soldering.

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

IEC/EN 60664-1				UL 1059			
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	36	Connection 1	
Number of connection types	1	Pole number	36
Number of levels	2		

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	73.1 mm / 2.878 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	88 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	11 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	4055143778916
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)	2eea1ead-9465-4be7-b3e4-13ca4c9b3b9c
SCIP notification number (Belgium)	dfc6a27e-fb5a-44a7-b79a-81f6d45a551c
SCIP notification number (Bulgaria)	f97bac53-ffd5-4ebf-a0c7-88daf4ae09d2
SCIP notification number (Czech Republic)	cef8f51f-7e2d-4860-9fc6-8f76ad6bd49b
SCIP notification number (Denmark)	2c4bcea7-2132-42dc-bd14-f07aa1fe6708
SCIP notification number (Finland)	30c4a7ff-0388-4dc5-8e5d-62a87c6513f7
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SCIP notification number (Italy)	18964669-9d52-445c-a36f-c2c397f953ca
SCIP notification number (Netherlands)	f7f92429-3103-4cbd-826b-2872933907fc
SCIP notification number (Poland)	1f645923-305d-4661-a8e2-24203fe173f7
SCIP notification number (Romania)	79d21dd0-3054-40be-9719-86dd5f6bcd11
SCIP notification number (Sweden)	2df3b9c0-cbd1-4d64-a9c9-c1eaf01b8469

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
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Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓
		pdf 535.32 KB	↓

CAD/CAE-Data

CAD data

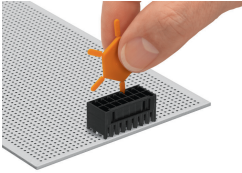


PCB Design



Installation Notes

Coding



Coding a male header by inserting a coding pin.