

**Data Sheet | Item Number: 713-1412/117-000/997-408**

THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 24-pole; black

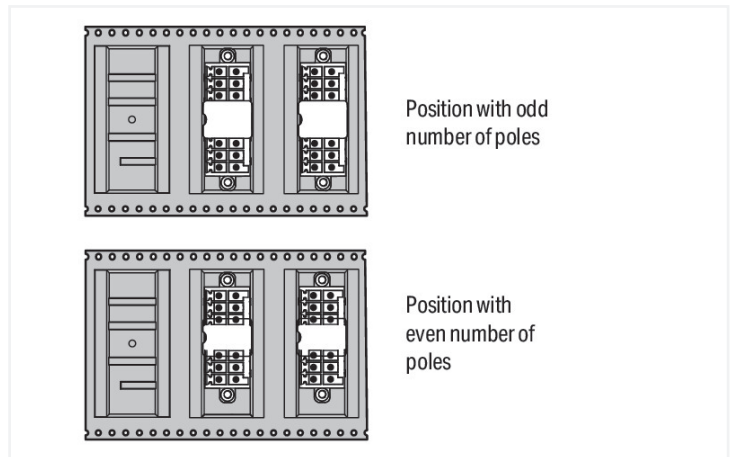
<https://www.wago.com/713-1412/117-000/997-408>



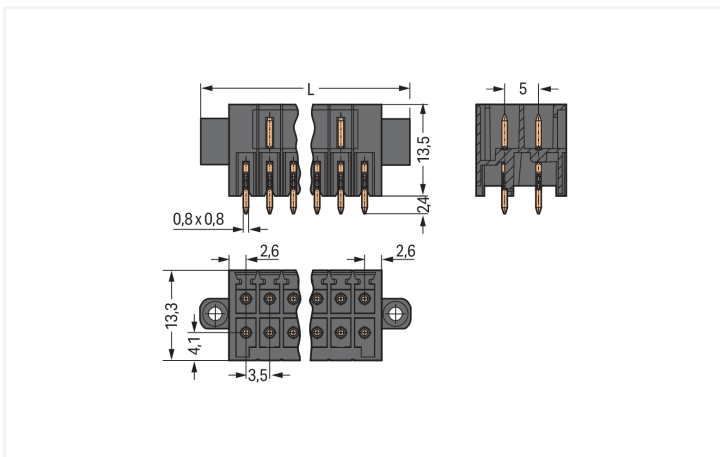
Color: ■ black

Similar to illustration

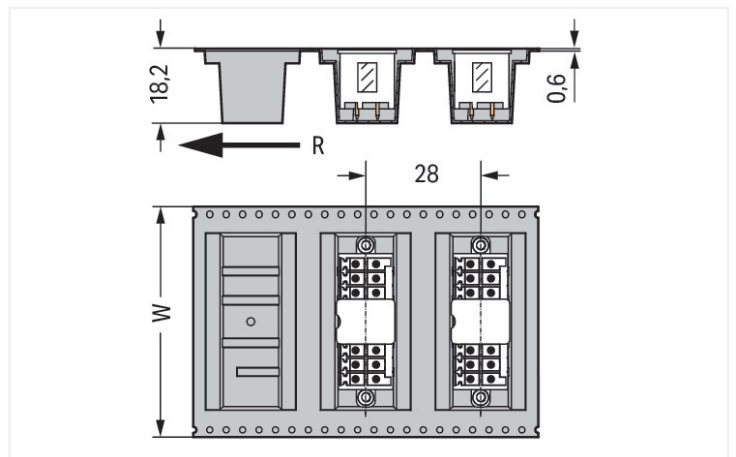
Similar to illustration



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



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



Dimensions in mm  
 W = tape width R = feed direction

Male connector, 713 Series, with 3.5 mm pin spacing

Effortless electrical installations are guaranteed with this male connector (item number 713-1412/117-000/997-408). Dimensions: (52.1 x 15.9 x 13.3) 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	24	<b>Connection 1</b>	
Number of connection types	1	Pole number	24
Number of levels	2		

**Physical data**

Pin spacing	3.5 mm / 0.138 inches
Width	52.1 mm / 2.051 inches
Height	15.9 mm / 0.626 inches
Height from the surface	13.5 mm / 0.531 inches
Depth	13.3 mm / 0.524 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	90 °
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)	<a href="#">Information on material specifications can be found here</a>
Color	black
Material group	I
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0 MJ
Weight	6.7 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	4050821308904
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)	7e21fecd-5353-486c-960f-101ce022a9a6
SCIP notification number (Belgium)	42c80d94-db3e-4c39-8801-dbe5f3fc38ac
SCIP notification number (Bulgaria)	4d6a6615-2d45-405b-be65-f8b059aaca5e
SCIP notification number (Czech Republic)	f56c19fe-2c0f-4e83-9375-250b84a1a1fb
SCIP notification number (Denmark)	17c5847e-2e46-4cfc-b774-83456392b137
SCIP notification number (Finland)	d34e873f-f9ed-428b-aff6-555540dce73d
SCIP notification number (France)	b8117f3a-a00c-4f84-97f6-63b6b0d99b38
SCIP notification number (Germany)	b79234f0-7daf-4b4c-826d-9cae5987a95e
SCIP notification number (Hungary)	92b3df2a-6fd5-46a7-9105-7d66a3630132
SCIP notification number (Italy)	36843611-d9d9-4e50-bca2-45dce3919055
SCIP notification number (Netherlands)	cf0647ce-d42e-4902-8811-95eb3623a485
SCIP notification number (Poland)	46bcac72-ee62-4e31-bb87-aa48bc858347
SCIP notification number (Romania)	68a022fb-646b-4e7a-a426-d53bf63b3f36
SCIP notification number (Sweden)	db26046e-1127-4483-830f-79cf80b8f051

### 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	71-126089

#### Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Z00004424.000

### 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



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



[Item No.: 713-1112/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 24-pole; 100% protected against mismatching; Screw flange; black

### 1.2 Optional Accessories

#### 1.2.1 Coding

##### 1.2.1.1 Coding

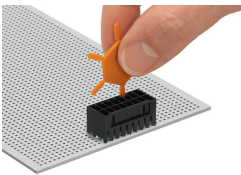


[Item No.: 714-101](#)

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.