

**Data Sheet | Item Number: 713-1406/117-000/997-406**

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; 12-pole; black

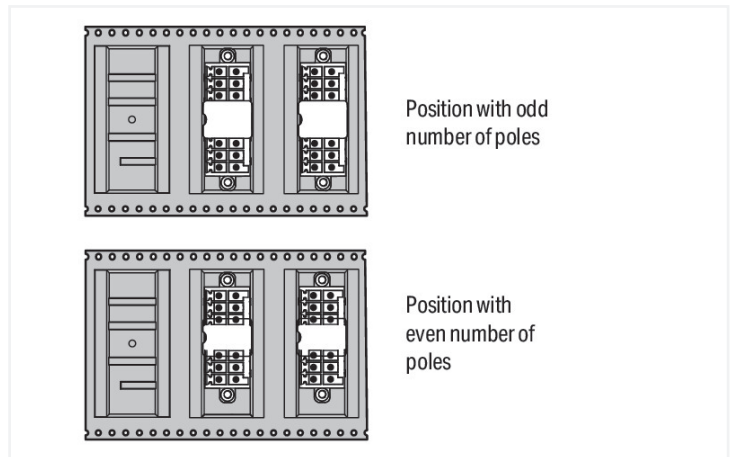
<https://www.wago.com/713-1406/117-000/997-406>



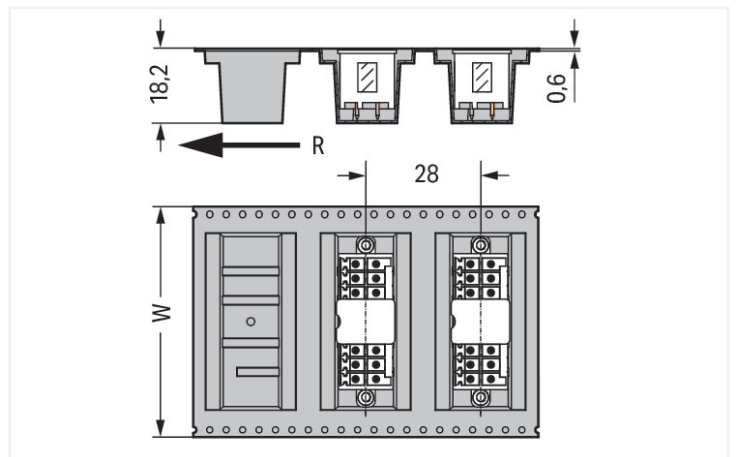
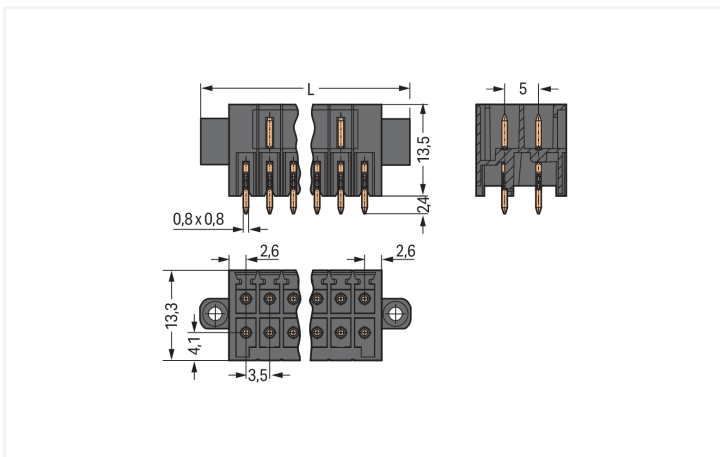
Color: ■ black

Similar to illustration

Similar to illustration



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





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

Our male connector (item number 713-1406/117-000/997-406) is designed for seamless electrical installations. Dimensions: (31.1 x 15.9 x 13.3) mm (width x height x depth).

Tin is used for coating the contact surfaces. THR is used to solder 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 <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .

**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	12	<b>Connection 1</b>	
Number of connection types	1	Pole number	12
Number of levels	2		

**Physical data**

Pin spacing	3.5 mm / 0.138 inches
Width	31.1 mm / 1.224 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	44 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	0.082 MJ
Weight	3.7 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	4050821308843
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)	665d3840-d5d4-4cb4-bb23-86c4223e8e32
SCIP notification number (Belgium)	3133c7a8-84cf-4352-aad4-1aae09458d06
SCIP notification number (Bulgaria)	05ef7263-03e5-434f-8ec5-350dcc622cd6
SCIP notification number (Czech Republic)	f1e2363f-583c-427f-b48f-fb75cfc653ee
SCIP notification number (Denmark)	35469453-e8bb-4e4b-ad47-7a7f21bd873c
SCIP notification number (Finland)	3f99691e-d2f8-4426-a283-c94a47cc7e15
SCIP notification number (France)	574ccb72-66ef-48f5-bede-64f87f14a5fd
SCIP notification number (Germany)	319d8a66-e147-4905-a85c-8dc676793037
SCIP notification number (Hungary)	e8169d38-0403-4515-b28f-b83f396d20f4
SCIP notification number (Italy)	8b3e1db3-c98e-46fc-9cea-5db9cde0a07c
SCIP notification number (Netherlands)	ca0b6294-5e29-4c55-9d2d-7d09874dc77e
SCIP notification number (Poland)	9d635b3b-6834-48d0-8439-75ff93931805
SCIP notification number (Romania)	986db27f-27d7-452b-bba0-196bc081cb07
SCIP notification number (Sweden)	ca769872-2ae3-467f-8496-e935fc3d181c

**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

**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.: 713-1106/107-000**

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

## 1.2.1 Coding

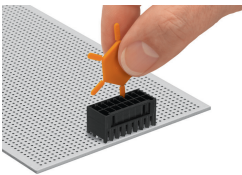
## 1.2.1.1 Coding

**Item No.: 714-101**

Coding key; orange

## Installation Notes

## Coding



Coding a male header by inserting a coding pin.