

**Data Sheet | Item Number: 713-1417/117-000/997-409**

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; 34-pole; black

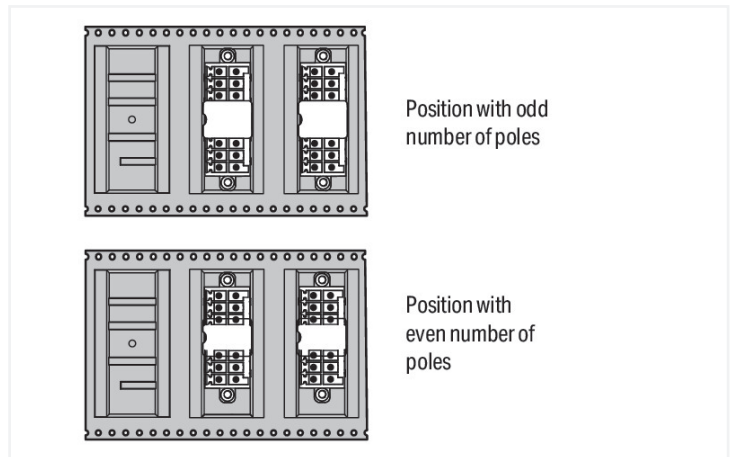
<https://www.wago.com/713-1417/117-000/997-409>



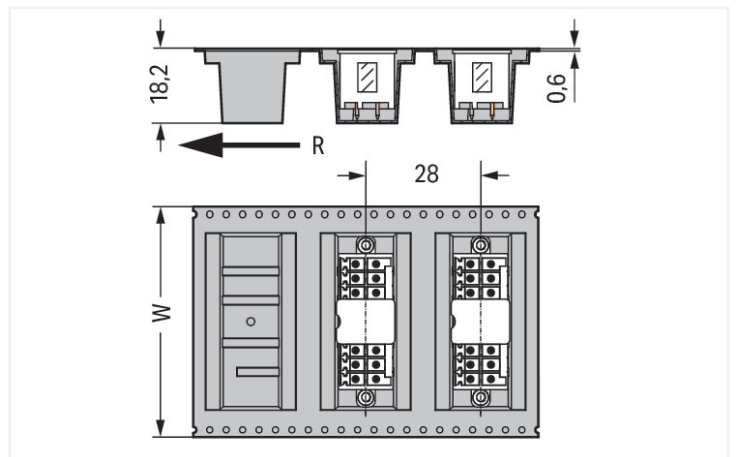
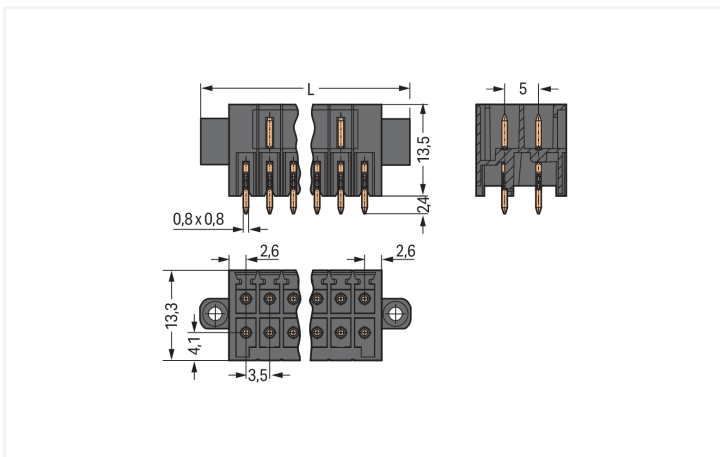
Color: ■ black

Similar to illustration

Similar to illustration



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





Male connector, 713 Series, black

Enjoy convenient electrical installations with this male connector (item number 713-1417/117-000/997-409). The dimensions are (69.6 x 15.9 x 13.3) mm (width x height x depth).

The contact surface is coated with tin. 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	34	<b>Connection 1</b>	
Number of connection types	1	Pole number	34
Number of levels	2		

**Physical data**

Pin spacing	3.5 mm / 0.138 inches
Width	69.6 mm / 2.74 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	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	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	9 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	4050821308959
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)	cabe8007-6414-41a1-bfe0-35dc07629b2d
SCIP notification number (Belgium)	a2294189-209a-4a44-80e5-3f6073be0c0d
SCIP notification number (Bulgaria)	eccf581d-ea06-466f-8f08-3e6a6f4b5e5c
SCIP notification number (Czech Republic)	722f47b6-1f4b-4f5d-bc38-b0ee80a2d1c7
SCIP notification number (Denmark)	ca61a2bb-d7b3-4387-b19a-9dcc126c3c03
SCIP notification number (Finland)	00c6c02c-d2d8-4ca7-951a-f144e039ed8c
SCIP notification number (France)	a42d3073-9e3c-4f9d-9724-50d1d8c6d129
SCIP notification number (Germany)	d6291bf0-2127-444f-be01-979c1de98843
SCIP notification number (Hungary)	986bb252-87ad-459f-bc1a-79fde9111552
SCIP notification number (Italy)	75b8b0a2-acfe-44ca-81f8-ef84eae29afa
SCIP notification number (Netherlands)	5dbbdb71-5547-446e-a77a-fd948baca571
SCIP notification number (Poland)	a32bde3d-5397-49aa-b393-a9bb969087e7
SCIP notification number (Romania)	18584576-95ff-459f-bbf4-63af3749f754
SCIP notification number (Sweden)	9e4f1041-0c21-41ca-a4e4-1cb3002f2242

**Approvals / Certificates**

**General approvals**

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



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

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.: 713-1117/107-000**

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 34-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

## 1.2.1 Coding

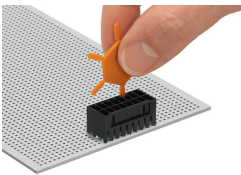
## 1.2.1.1 Coding

**Item No.: 714-101**

Coding key; orange

## Installation Notes

## Coding



Coding a male header by inserting a coding pin.