

**Data Sheet | Item Number: 713-1414/117-000/997-408**

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; 28-pole; black

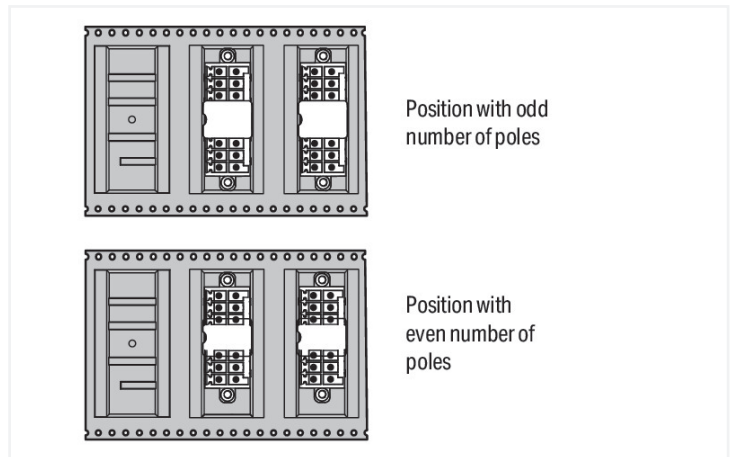
<https://www.wago.com/713-1414/117-000/997-408>



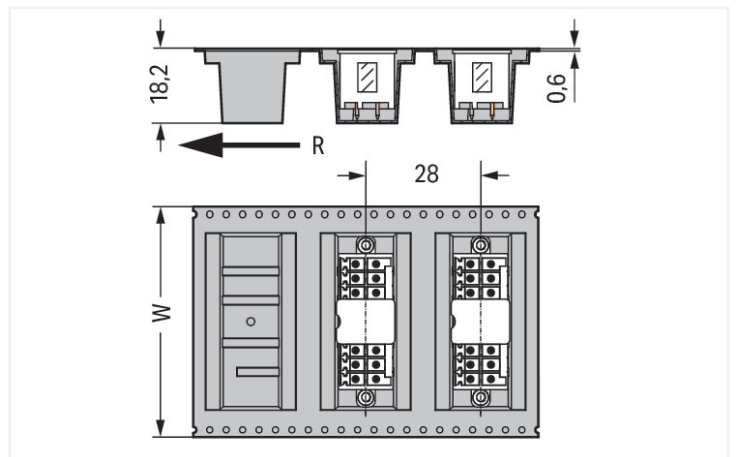
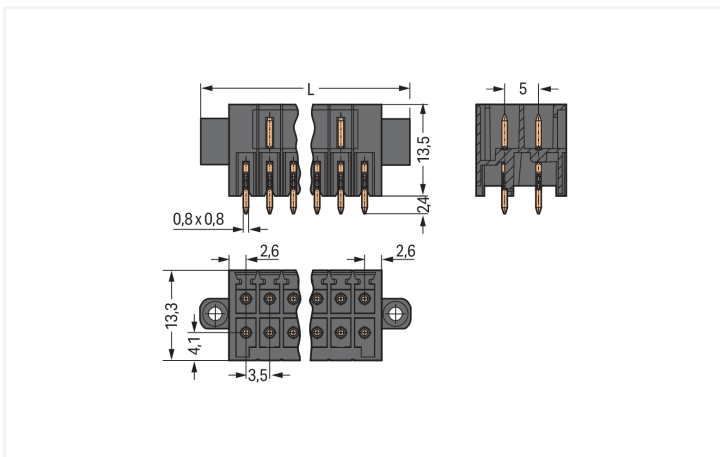
Color: ■ black

Similar to illustration

Similar to illustration



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





Male connector, 713 Series, black

Enjoy easy electrical installations with this male connector (item number 713-1414/117-000/997-408). The item's dimensions are (59.1 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 <https://configurator.wago.com/>.

**Electrical data**

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	80 V	160 V	250 V
Rated impulse withstand voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	10 A	10 A	10 A

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	150 V	50 V	-
Rated current	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	28
Number of connection types	1
Number of levels	2

Connection 1	
Pole number	28

**Physical data**

Pin spacing	3.5 mm / 0.138 inches
Width	59.1 mm / 2.327 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	7.6 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	4050821308928
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)	2fe4ebf3-4c30-4763-b131-3db2fe193b66
SCIP notification number (Belgium)	48adf485-09a0-4703-9ff5-787c145a4ebc
SCIP notification number (Bulgaria)	a6f3898f-7f7e-4e8a-ac40-0f4d205f90a0
SCIP notification number (Czech Republic)	37b59223-5f0c-4224-9a67-ec4544a29797
SCIP notification number (Denmark)	115640f8-b6fb-4a15-81b1-8d7c8aa3b8db
SCIP notification number (Finland)	1b428686-3dcb-4888-9b5e-eaabbfa7bb46
SCIP notification number (France)	d1494c22-087f-420e-9480-0972e9cd9a80
SCIP notification number (Germany)	16945580-ffeb-432f-86f3-b0093cc8895f
SCIP notification number (Hungary)	06207b20-082c-419e-b4bf-0f33dcd58a4f
SCIP notification number (Italy)	a6f85177-eebe-4a96-85b1-b3ed6bea8f23
SCIP notification number (Netherlands)	45cd5553-891d-4658-83d1-67e3aafe2122
SCIP notification number (Poland)	1a4932f4-72bc-44b8-9bc6-43b7cdf13847
SCIP notification number (Romania)	14c12349-0e87-4ffd-b76f-b1e2e9a5402e
SCIP notification number (Sweden)	e9639808-130c-4055-afe2-eb29f8c429d8

**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.: 713-1114/107-000**

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 28-pole; 100% protected against mismatching; Screw flange; black

### 1.2 Optional Accessories

#### 1.2.1 Coding

##### 1.2.1.1 Coding

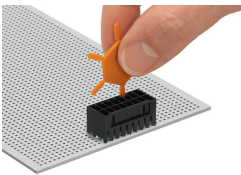


**Item No.: 714-101**

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.