

**Data Sheet | Item Number: 713-1428/117-000/997-407**

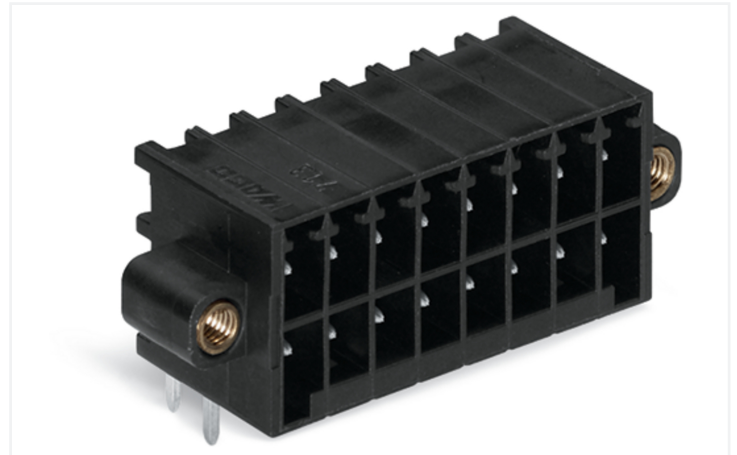
THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 16-pole; black

<https://www.wago.com/713-1428/117-000/997-407>

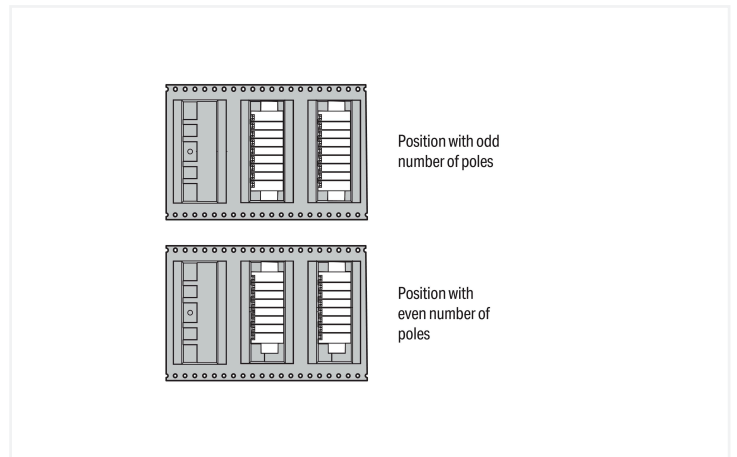
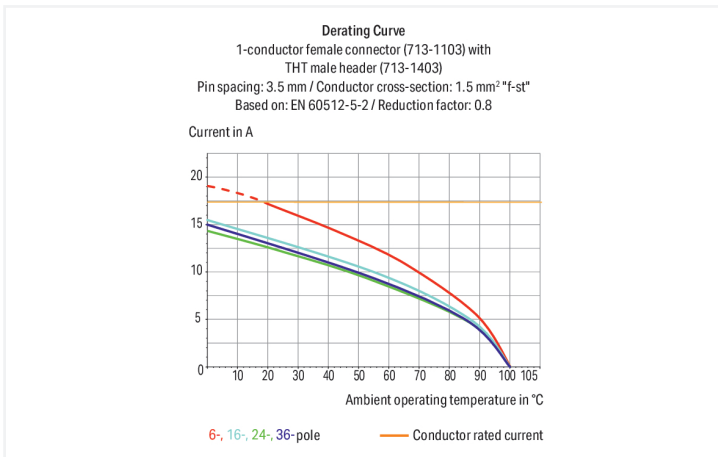


Color: ■ black

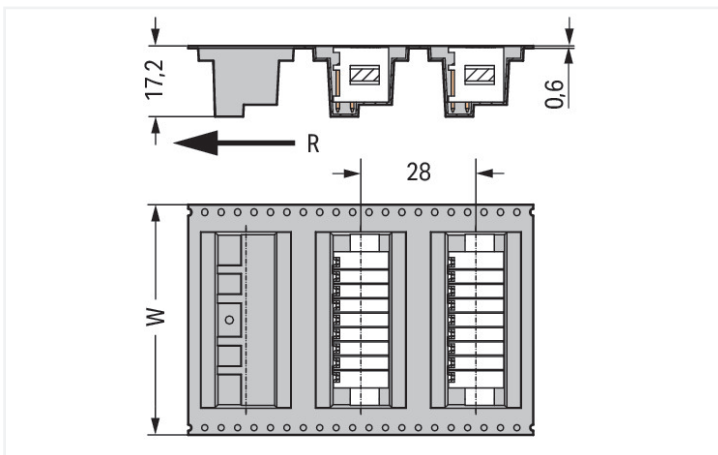
Similar to illustration



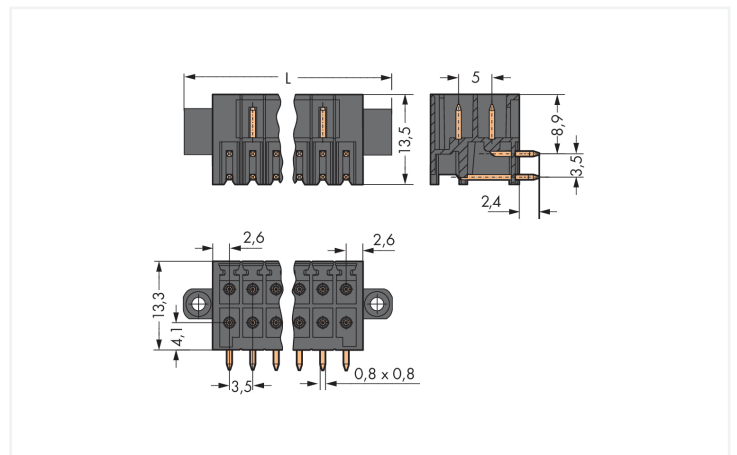
Similar to illustration



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, black

Enjoy convenient electrical installations with this male connector (item number 713-1428/117-000/997-407). The dimensions are (38.1 x 15.7 x 13.5) mm (width x height x depth).

The contact surface is coated with tin. THR is used to assemble the pcb connector.

**Notes**

<p>Safety Information</p> <p>Variants:</p>	<p>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.</p> <p>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>.</p>
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**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**

<p>Total number of potentials</p> <p>Number of connection types</p> <p>Number of levels</p>	<p>16</p> <p>1</p> <p>2</p>	<p><b>Connection 1</b></p> <p>Pole number</p>	<p>16</p>
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**Physical data**

Pin spacing	3.5 mm / 0.138 inches
Width	38.1 mm / 1.5 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	56 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)	<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	11.52 MJ
Weight	5.4 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	4050821309833
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)	4d413188-4918-4046-960e-f773ad65e74f
SCIP notification number (Belgium)	f62ecf2b-4ecb-4eea-a427-8fa84fd55f3b
SCIP notification number (Bulgaria)	fef0fbf9-5372-4a6b-8edc-11b2b42e3d07
SCIP notification number (Czech Republic)	e3ac580a-2177-4a8d-8f4a-b980fcc50a25
SCIP notification number (Denmark)	3875dea2-7f68-4357-a0e3-c5e920a14103
SCIP notification number (Finland)	ecf0dc17-d723-49ae-a150-c14832f914a1
SCIP notification number (France)	1fe2f413-0afe-4b5b-8f11-26e3a91bf469
SCIP notification number (Germany)	18bcfdd0-d701-4105-b774-8712a1cdc17d
SCIP notification number (Hungary)	835f0ead-7aea-4864-bd64-5c31f2ca9536
SCIP notification number (Italy)	582c299d-67b1-4264-a56e-19dfe7946524
SCIP notification number (Netherlands)	31109a30-e5a5-4848-8bf9-4d35e5db8505
SCIP notification number (Poland)	fdbff478-3956-461b-b27f-e8f5bacee286
SCIP notification number (Romania)	4b23f6e8-b82c-45a2-812f-e27c55e1009a
SCIP notification number (Sweden)	a8076283-7758-43ed-bc41-d71d83ada5cf

**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	71-133740

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

**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



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



**Item No.: 713-1108/107-000**

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Screw flange; black

### 1.2 Optional Accessories

#### 1.2.1 Coding

##### 1.2.1.1 Coding

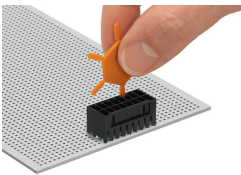


**Item No.: 714-101**

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.