

# Data Sheet | Item Number: 713-1438/117-000

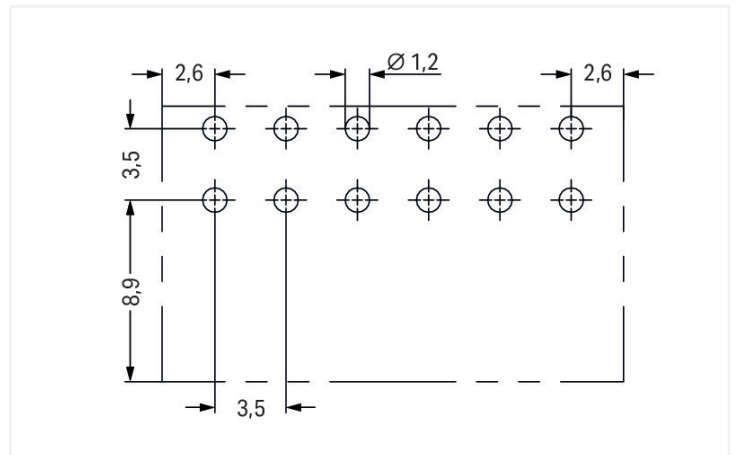
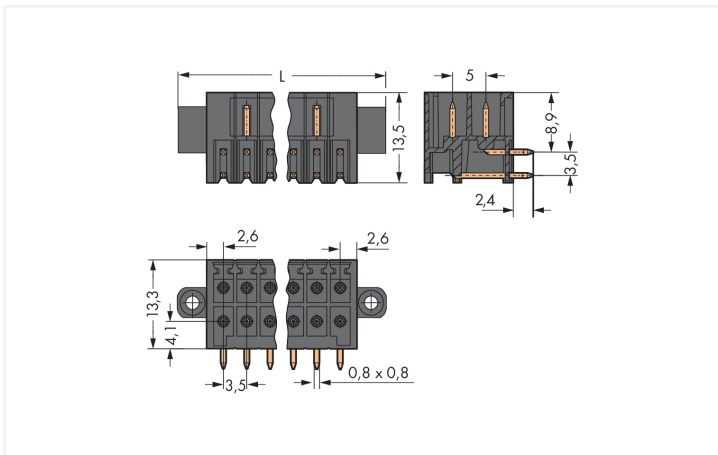
THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 36-pole; black

<https://www.wago.com/713-1438/117-000>



Color: ■ black

Similar to illustration



Dimensions in mm

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

Male connector, 713 Series, black

This male connector (item number 713-1438/117-000) simplifies electrical installations. Dimensions: (73.1 x 15.7 x 13.5) mm (width x height x depth).

Tin is used for coating the contact surfaces. 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	36	<b>Connection 1</b>	
Number of connection types	1	Pole number	36
Number of levels	2		

## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	73.1 mm / 2.878 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 <sup>(+0.1)</sup> 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	0.193 MJ
Weight	11 g
MSL per J-STD 020D	1

### Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

### Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	PL
GTIN	4050821156703
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)	1645216b-9985-40e6-9729-39cf37f30ec2
SCIP notification number (Belgium)	3feefa9b-0b2b-4ed3-94cb-77f51f3b44c4
SCIP notification number (Bulgaria)	2b429036-2ee7-4185-a90d-0e5e1b714af9
SCIP notification number (Czech Republic)	2242730f-efcd-4c7d-81bb-0c7bf59d19a7
SCIP notification number (Denmark)	2ed8bf1c-0919-43f3-8189-4a2c1cf12857
SCIP notification number (Finland)	8dbc0a09-d150-4b86-9280-36d1aa32a41d
SCIP notification number (France)	7af3664c-fc06-45f3-9441-c9e6948f19d4
SCIP notification number (Germany)	f89f5011-391e-4159-a2cc-0d89572d4a83
SCIP notification number (Hungary)	90a9e3fe-85a2-4ef1-ae96-6c99128e1307
SCIP notification number (Italy)	d9da3b5e-998b-4c27-bd23-5b5d03fe5db5
SCIP notification number (Netherlands)	83194dde-9803-4aff-8b25-bb987bcabac0
SCIP notification number (Poland)	d3b2bc22-9316-4d83-84a7-a706d6a515f8
SCIP notification number (Romania)	95ab3bb9-992a-4898-8cec-66c2c29472df
SCIP notification number (Sweden)	735c364c-1fc0-43bf-abfc-8a6fcc0621dd

## 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

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 713-1438/117-000	<a href="#">↓</a>
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## Documentation

### Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	<a href="#">↓</a>
		pdf 535.32 KB	<a href="#">↓</a>

## CAD/CAE-Data

### CAD data

2D/3D Models  
713-1438/117-000



### CAE data

ZUKEN Portal  
713-1438/117-000



## PCB Design

Symbol and Footprint  
via SamacSys  
713-1438/117-000



Symbol and Footprint  
via Ultra Librarian  
713-1438/117-000



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



##### Item No.: [713-1118/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 36-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

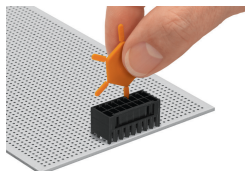


##### Item No.: [714-101](#)

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.