

# Data Sheet | Item Number: 713-1405/117-000

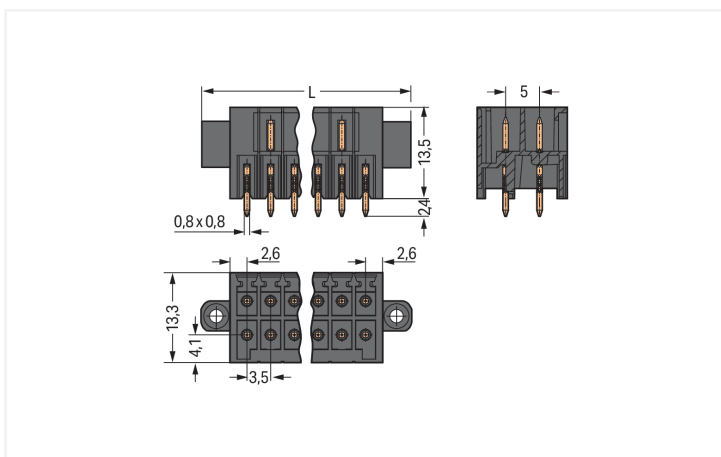
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 10-pole; black

<https://www.wago.com/713-1405/117-000>



Color: ■ black

Similar to illustration



Dimensions in mm

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



Male connector, 713 Series, black

Our male connector (item number 713-1405/117-000) ensures effortless electrical installations. Dimensions: (27.6 x 15.9 x 13.3) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THR soldering.

## 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	10	<b>Connection 1</b>	
Number of connection types	1	Pole number	10
Number of levels	2		

## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	27.6 mm / 1.087 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 <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	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	0.067 MJ
Weight	3.3 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)	25 pcs
Packaging type	Box
Country of origin	PL
GTIN	4050821156420
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)	f7a099db-0a2e-4773-b390-ed95e8bb4baa
SCIP notification number (Belgium)	c509198b-73ed-4ce4-a450-42ee230a0d6d
SCIP notification number (Bulgaria)	86aceaa0-9ff4-41db-80e2-51cb48a65ab8
SCIP notification number (Czech Republic)	39a4e8e7-c176-44ef-8563-35712a59d204
SCIP notification number (Denmark)	33e0ce28-5325-49c1-b8c3-83be138f781e
SCIP notification number (Finland)	e84c41a5-de25-4bbf-98f7-ee3e7992ceb2
SCIP notification number (France)	5b0eaf95-6ed1-479d-bfed-f4177d5500f8
SCIP notification number (Germany)	8a45c2d3-141b-400d-a77b-0f4a4251204c
SCIP notification number (Hungary)	4c1d20ed-e0fb-424d-ad3b-e70565d59ccc
SCIP notification number (Italy)	bf2e223f-e242-455c-b625-fed9d11bc0c6
SCIP notification number (Netherlands)	4325f5cc-3b01-4633-a75e-733c4b903492
SCIP notification number (Poland)	73136d37-4487-48f9-97e9-5dec9466d4be
SCIP notification number (Romania)	caf5f06d-67d6-48f7-a0a7-488ea5ae226c
SCIP notification number (Sweden)	98fad7a8-549c-49ba-8bdc-c3e1010561c7

## 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 713-1405/117-000	↓
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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

2D/3D Models  
713-1405/117-000



### CAE data

ZUKEN Portal  
713-1405/117-000



## PCB Design

Symbol and Footprint  
via SamacSys  
713-1405/117-000



Symbol and Footprint  
via Ultra Librarian  
713-1405/117-000



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



##### Item No.: 713-1105/107-000

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 10-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

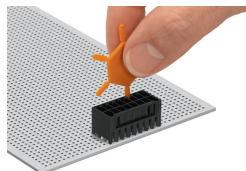


##### Item No.: 714-101

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.