

# Data Sheet | Item Number: 713-1416/117-000

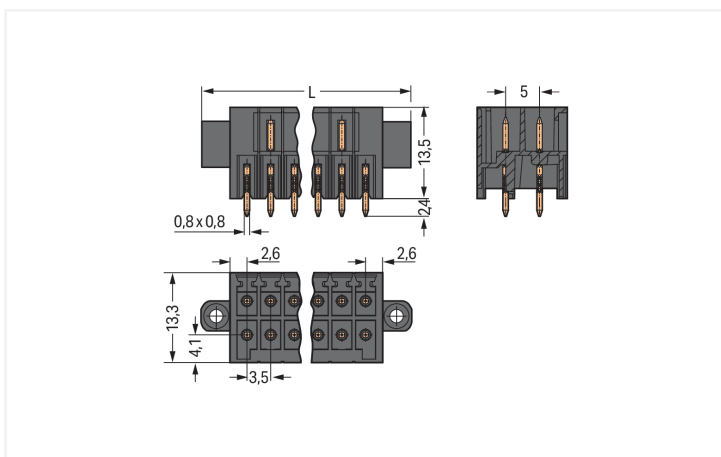
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 32-pole; black

<https://www.wago.com/713-1416/117-000>



Color: ■ black

Similar to illustration



Dimensions in mm

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



Male connector, 713 Series, with 3.5 mm pin spacing

Enjoy easy electrical installations with this male connector (item number 713-1416/117-000). The dimensions are (66.1 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		
Overtoltage 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	32
Number of connection types	1
Number of levels	2

## Connection 1

Pole number	32
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## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	66.1 mm / 2.602 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	0.173 MJ
Weight	8.6 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	4050821156536
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)	f927d326-7946-467f-b3ab-9b96534401d9
SCIP notification number (Belgium)	df3154e2-d6ce-44a4-93ce-a5e2df139b36
SCIP notification number (Bulgaria)	9728a8ac-b42f-4e10-888b-8a4e1b89a717
SCIP notification number (Czech Republic)	68fb3393-1c23-4570-bd98-a02061d4cd1e
SCIP notification number (Denmark)	f7470bf3-ebde-4b3f-86fc-00634a3547d9
SCIP notification number (Finland)	daa1edc1-bb73-4716-921a-f8a5e99ab739
SCIP notification number (France)	d335e640-9397-410d-9c3d-552f0d032d07
SCIP notification number (Germany)	89810692-a0a4-4494-909e-6a937f9e1dd4
SCIP notification number (Hungary)	c5867cca-62a6-43dd-8ba5-d8000aa1838b
SCIP notification number (Italy)	5fd51a7a-fa60-4887-8241-680e59ce81df
SCIP notification number (Netherlands)	04664599-75c9-4490-bdb8-54ac764ac39a
SCIP notification number (Poland)	f32b467a-b9d5-483a-94de-c8c34b9c324c
SCIP notification number (Romania)	019ca7c0-5612-4ef5-9bc3-baffe9208a43
SCIP notification number (Sweden)	170e7ec2-379d-4840-97de-c2b60f54b928

**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	71-126089

**Downloads**

**Environmental Product Compliance**

Compliance Search	
Environmental Product Compliance 713-1416/117-000	<a href="#">↓</a>

**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  
713-1416/117-000



### CAE data

ZUKEN Portal  
713-1416/117-000



## PCB Design

Symbol and Footprint  
via SamacSys  
713-1416/117-000



Symbol and Footprint  
via Ultra Librarian  
713-1416/117-000



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



##### Item No.: [713-1116/107-000](#)

1-conductor female connector, 2-row; CA-GE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 32-pole; 100% protected against mismatching; Screw flange; black

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

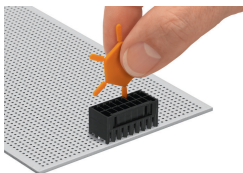


##### Item No.: [714-101](#)

Coding key; orange

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.