

## Data Sheet | Item Number: 713-1431/107-000

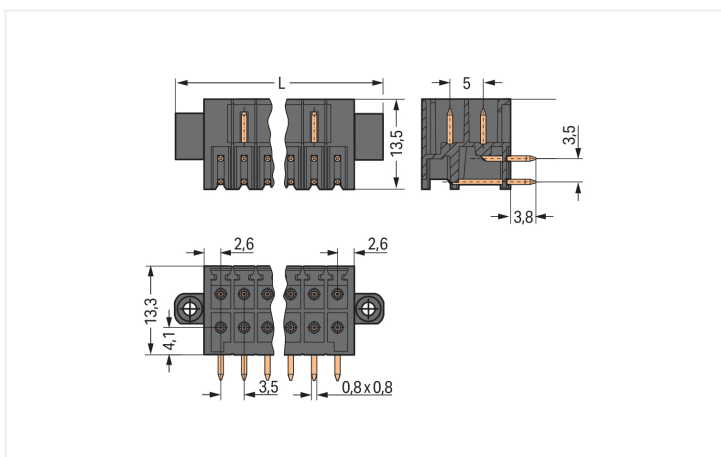
THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 22-pole; black

<https://www.wago.com/713-1431/107-000>



Color: ■ black

Similar to illustration



Dimensions in mm

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



Male connector, 713 Series, solder pin dimensions 0.8 x 0.8 mm

This male connector (item number 713-1431/107-000) simplifies electrical installations. Dimensions: (48.6 x 17.1 x 13.5) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THT 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	22	<b>Connection 1</b>	
Number of connection types	1	Pole number	22
Number of levels	2		

## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	48.6 mm / 1.913 inches
Height	17.1 mm / 0.673 inches
Height from the surface	13.3 mm / 0.524 inches
Depth	13.5 mm / 0.531 inches
Solder pin length	3.8 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.2 <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	THT
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	0.125 MJ
Weight	6.7 g

### Environmental requirements

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

### Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454809188
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)	a3a6bc60-ff0f-412f-bae2-0e1b21e2c6c0
SCIP notification number (Belgium)	f87b035e-026c-4510-94b4-fae26b627af8
SCIP notification number (Bulgaria)	f7586640-6f70-4a8a-bf0b-9c9217779901
SCIP notification number (Czech Republic)	6a02742e-f6fe-4d18-b517-3bf8ea8026fe
SCIP notification number (Denmark)	a6fec053-2619-435b-8c61-e6069d32107d
SCIP notification number (Finland)	d51fca14-a92c-490f-a769-9693641b31c5
SCIP notification number (France)	15bf16a2-22bb-409f-a323-2dad0186e7e4
SCIP notification number (Germany)	b141597d-fcfd-4113-9fdb-b43b0093bdae
SCIP notification number (Hungary)	2f1d683f-9718-4dc8-afc9-cd7b202183e4
SCIP notification number (Italy)	359f7258-7ce4-4b62-8610-9de5d76c1287
SCIP notification number (Netherlands)	1573bfdc-75cb-4961-8d3d-45d06f164297
SCIP notification number (Poland)	18c40d1b-ed08-44e0-abca-044055cad5f3
SCIP notification number (Romania)	20a274f5-fc35-4159-9461-db832457ebba
SCIP notification number (Sweden)	8f641c29-215c-4cab-9d7c-b7c51c4cd331

## 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 713-1431/107-000	↓
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## Documentation

### Additional Information


Technical Section	03.04.2019	pdf 2027.26 KB	↓
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CAD/CAE-Data


**CAD data**


2D/3D Models  
713-1431/107-000 

**CAE data**

ZUKEN Portal  
713-1431/107-000 

**PCB Design**

Symbol and Footprint  
via SamacSys  
713-1431/107-000 

Symbol and Footprint  
via Ultra Librarian  
713-1431/107-000 

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



**Item No.: 713-1111/107-000**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Screw flange; black

**Item No.: 713-1111/107-047**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Screw flange; direct marking; black

**Item No.: 713-1111/107-9037**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Screw flange; direct marking; black

**Item No.: 713-1111/107-047/034-000**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Screw flange; Strain relief plate; direct marking; black



**Item No.: 713-1111/107-9037/034-000**  
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Screw flange; Strain relief plate; direct marking; black

1.2 Optional Accessories

1.2.1 Coding

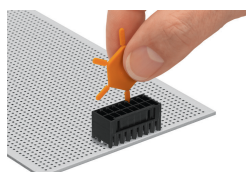
1.2.1.1 Coding



**Item No.: 714-101**  
Coding key; orange

Installation Notes

Coding



Coding a male header by inserting a coding pin.

Subject to changes. Please also observe the further product documentation!

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Current addresses can be found at: [www.wago.com](http://www.wago.com)