

## Data sheet | Item number: 713-1410

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



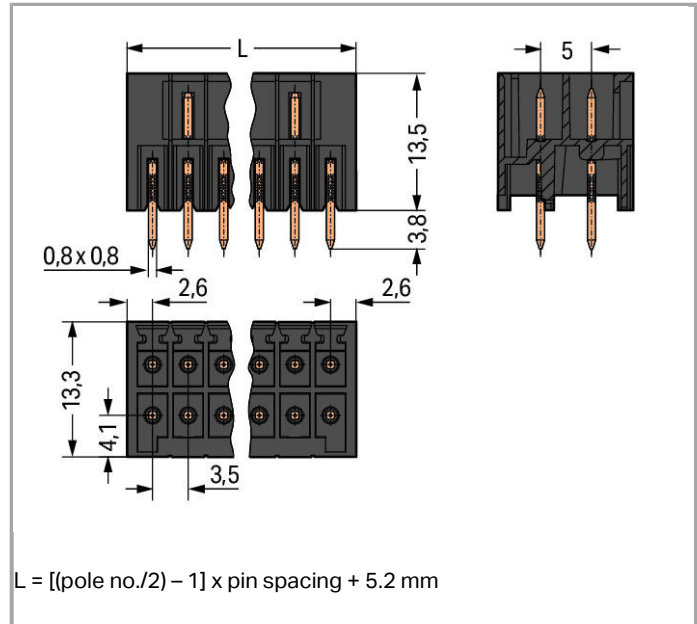
[www.wago.com/713-1410](http://www.wago.com/713-1410)



RoHS  
Compliant

BOMcheck.net

Color: ■



### Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Header housing is molded of THT-compatible insulation material for lead-free reflow soldering
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- Coding pins available

Other variants can be requested via the WAGO sales department or, if necessary, configured at <https://configurator.wago.com/>: Gold-plated or partially gold-plated contact surfaces, Other pole numbers, Other solder pin lengths

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	80 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V



Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	250 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

### Approvals per UL 1059

Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	50 V
Rated current UL (Use Group C)	10 A

### Approvals per CSA

Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	12 A

### Connection data

No. of poles	20
Total number of potentials	20
Number of levels	2

### Geometrical Data

Pin spacing	3.5 mm (0.138 inch)
Width	36.5 mm / 1.437 inch
Height	17.3 mm / 0.681 inch
Height from the surface	13.5 mm / 0.531 inch
Depth	13.3 mm / 0.524 inch
Solder pin length	3.8 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter (tolerance)	1.2 <sup>(+ 0.1)</sup> mm

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs
Mismating protection	Yes
Mating direction to the PCB	90°

### PCB contact

PCB contact	THT
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Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

### Material Data

Color	black
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (Ecu)
Contact plating	tin-plated
Fire load	0.108 MJ
Weight	5.23 g

### Environmental Requirements



Limit temperature range	-60 ... +100 °C
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### Commercial data


Country of origin	PL
GTIN	4045454700058
Customs Tariff No.	85366990990
Product Group	3 (Multi Conn. System)

### Approvals / Certificates

#### Country specific Approvals

Logo	Approval	Certificate name
	CCA DEKRA Certification B.V.	NL-30980
	CCA DEKRA Certification B.V.	2169947.01
	CSA DEKRA Certification B.V.	2315087

#### UL-Approvals

Logo	Approval	Certificate name
	UR Underwriters Laboratories Inc.	E45172

## Compatible products

### Coding



Item no.: 714-101

Coding key

[www.wago.com/714-101](http://www.wago.com/714-101)

## Downloads

### smartDATA

#### CAD data

3D Download 713-1410	URL	Download
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#### PCB libraries

DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with DesignSpark PCB Version 4.x or higher	2.1 Oct 6, 2014	ZIP 6.1 MB	Download
TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System) Compatible with TARGET PCB Design Software Version 17.x	1.1.0 Oct 6, 2014	ZIP 7.4 MB	Download
EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with EAGLE PCB Design Software Version 6.x or higher	2.1 Nov 17, 2017	ZIP 6.2 MB	Download

Subject to changes.

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