THT male header, 2-row; $0.8 \times 0.8 \text{ mm}$ solder pin; straight; 100% protected against mismating; with orientation nose; Pin spacing 3.5 mm; 16-pole; black www.wago.com/713-1468



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ı	Color:	

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

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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 mismating
- Coding option available

Data Notes

Safety information

The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When

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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

Ratings per	IEC/EN 60664-1
Nominal 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
Nominal voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

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

Ratings per CSA

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

Connection data

Total number of potentials	16
Total number of potentials	10

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Number of connection types	1
Number of levels	2

Connection 1

Pole number 16

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	29.5 mm / 1.161 inches
Height	17.3 mm / 0.681 inches
Height from the surface	13.5 mm / 0.531 inches
Depth	13.3 mm / 0.524 inches
Solder pin length	3.8 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.2 ^(±0.1) 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
Plugging without loss of pin spacing	No
Mating direction to the PCB	90 °
Locking of plug-in connection	none

PCB contact

PCB contact	ТНТ
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

Material Data

Note (material data)

Information on material specifications can be found here

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Color	black	
Material group	I	
Insulation material	Polyphthalamide (PPA GF)	
Flammability class per UL94	Vo	
Contact material	Electrolytic copper (E _{Cu})	
Contact plating	Tin	
Fire load	0.088 MJ	
Weight	4.3 g	

Environmental requirements

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

Commercial data

Product Group	3 (Multi Conn. System)	
eCl@ss 10.0	27-44-04-02	
eCl@ss 9.0	27-44-04-02	
ETIM 8.0	EC002637	
ETIM 7.0	EC002637	
PU (SPU)	25 pcs	
Packaging type	box	
Country of origin	PL	
GTIN	4045454667405	
Customs tariff number	85366930000	

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CSA	C22.2	2315087
	DEKRA Certification B.V.		
	UR	UL 1059	E45172
	Underwriters Laboratories Inc.		

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Counterpart

Item no.713-1108

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 16-pole; 100% protected against mismating; 1,50 mm²; black

www.wago.com /713-1108

Optional accessories

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Coding

Item no.: 714-101 Coding key; orange

www.wago.com/714-101

Downloads

Documentation

Additional Information

2019年4月3日

pdf

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CAD/CAE-Data

CAD data

2D/3D Models 713-1468

URL

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PCB Design

Symbol and Footprint 713-1468

URL

Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation

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- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

CAE data

ZUKEN Portal 713-1468 URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 713-1468

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against

mismating; with orientation nose; Pin spacing 3.5 mm; 16-pole; black

Installation Notes

Coding

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Coding a male header by inserting a coding pin.

Product family

MCS MINI HD
Show all products from the family

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