

Data sheet | Item number: 713-1431

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

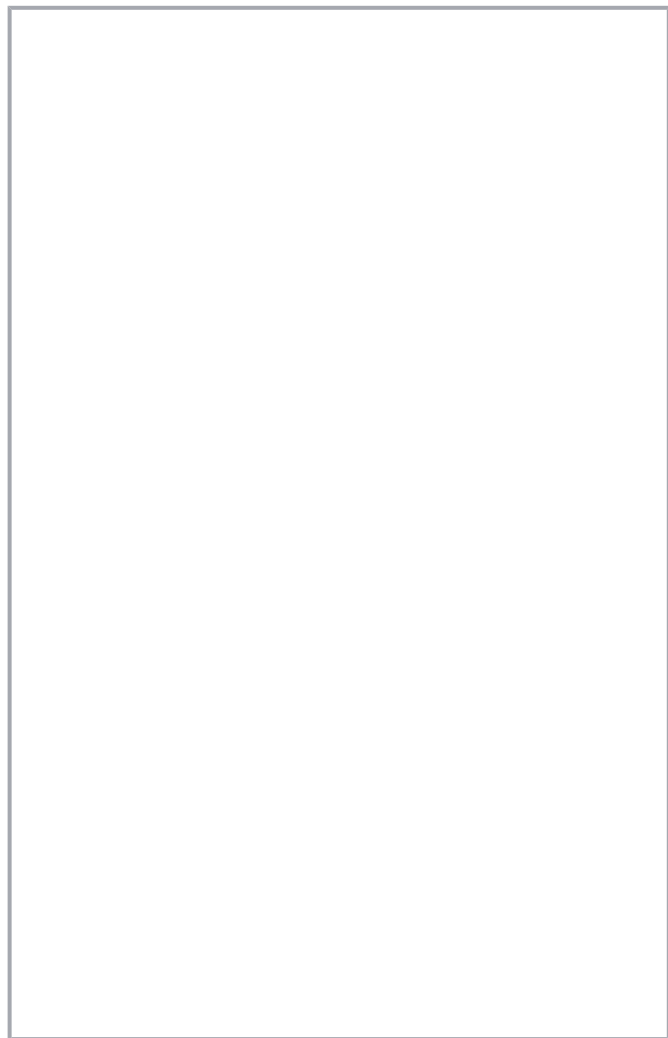
www.wago.com/713-1431



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 mismatching
- Coding option available

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Data

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

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) $\hat{=}$ 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
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Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	12 A

Connection data

Total number of potentials	22
Number of connection types	1
Number of levels	2

Connection 1

Pole number	22
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Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	40 mm / 1.575 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 ^(+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	0°
Locking of plug-in connection	none

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

Note (material data)	Information on material specifications can be found here
Color	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.118 MJ
Weight	6 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	4045454700225
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61984	2169947.01
	CCA DEKRA Certification B.V.	IEC 61984	NL-30980
	CSA DEKRA Certification B.V.	C22.2	2315087
	UR Underwriters Laboratories Inc.	UL 1059	E45172

Counterpart

Item no.713-1111 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; 1,50 mm ² ; black	www.wago.com/713-1111
Item no.713-1111/000-047 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; direct marking; 1,50 mm ² ; black	www.wago.com/713-1111/000-047
Item no.713-1111/000-9037 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; direct marking; 1,50 mm ² ; black	www.wago.com/713-1111/000-9037
Item no.713-1111/034-047 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm ² ; black	www.wago.com/713-1111/034-047
Item no.713-1111/034-9037 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 22-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm ² ; black	www.wago.com/713-1111/034-9037

Optional accessories

Coding	
Coding	
Item no.: 714-101 Coding key; orange	www.wago.com/714-101

Downloads

Documentation

Additional Information

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2019 年4月3日

pdf
2.0 MB

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CAD/CAE-Data

CAD data

2D/3D Models 713-1431	URL	Download
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PCB Design

Symbol and Footprint 713-1431	URL	Download
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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
- 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

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CAE data

ZUKEN Portal 713-1431	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 713-1431	URL	Download
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Installation Notes

Coding



Coding a male header by inserting a coding pin.

Product family

MCS MINI HD

[Show all products from the family](#)

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