

Data sheet | Item number: 713-1430/107-000

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; 20-pole; black

www.wago.com/713-1430/107-000



Picture differs from the item.

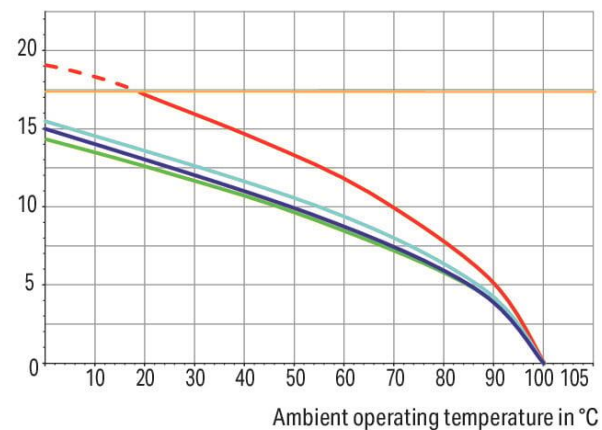
Color:

Derating Curve

1-conductor female connector (713-1103) with
THT male header (713-1403)

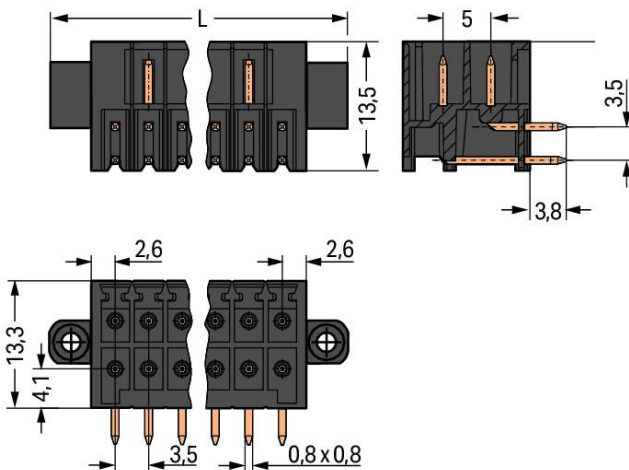
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



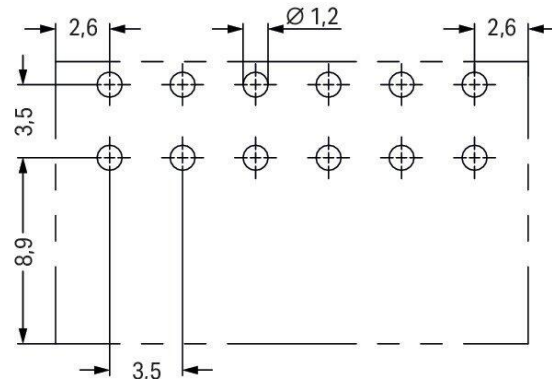
6-, 16-, 24-, 36-pole

Conductor rated current



Dimensions in mm

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



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 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
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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	20
Number of connection types	1
Number of levels	2

Connection 1

Pole number	20
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Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	45.1 mm / 1.776 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

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Mismating protection	Yes
Plugging without loss of pin spacing	No
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)

[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	0.115 MJ
Weight	6.2 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)	20 pcs
Packaging type	box
Country of origin	PL
GTIN	4045454809171

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Customs tariff number 85366930000

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	3501917f-dd84-48d7-b4fa-f002ea089610
SCIP notification number (Belgium)	58d41465-4f03-4c56-a701-84d2f6c9f6d3
SCIP notification number (Bulgaria)	b399f489-2937-4fdf-958b-474539ea6150
SCIP notification number (Czech Republic)	0568d367-a568-4cfd-8ee3-8e42f4973e00
SCIP notification number (Denmark)	663650fa-59d5-47b4-84d1-c4b6d7140804
SCIP notification number (Finland)	afb04684-105a-4b78-a901-7ec115d9fccb
SCIP notification number (France)	e425bf8f-698e-49e4-90d5-e1f3b9db24f6
SCIP notification number (Germany)	e841bdad-0921-496c-b759-9e29e9a38c9a
SCIP notification number (Hungary)	c2fa6f8d-611f-4dc7-ae20-c1084d8bc20a
SCIP notification number (Italy)	5604e76e-bade-416d-a02b-247569aec0fd
SCIP notification number (Netherlands)	56d06278-5f20-4109-8571-541fce66c5d7
SCIP notification number (Poland)	27921fd6-14b2-4dc9-b02f-f5f7198cc75d
SCIP notification number (Romania)	57c58faa-d719-4154-9ece-b4bbe0ded9d7
SCIP notification number (Sweden)	77100778-2519-4fe2-8a09-5297f4cbcac4

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CSA CSA Group	C22.2	2315087
	UR Underwriters Laboratories Inc.	UL 1059	E45172

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

Counterpart

	Item no.713-1110/107-000 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; 1,50 mm ² ; black	www.wago.com/713-1110/107-000
	Item no.713-1110/107-047 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; direct marking; 1,50 mm ² ; black	www.wago.com/713-1110/107-047
	Item no.713-1110/107-9037 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; direct marking; 1,50 mm ² ; black	www.wago.com/713-1110/107-9037
	Item no.713-1110/107-047/033-000 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; Strain relief plate; direct marking; 1,50 mm ² ; black	www.wago.com/713-1110/107-047/033-000
	Item no.713-1110/107-9037/033-000 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm ² ; Pin spacing 3.5 mm; 20-pole; 100% protected against mismatching; Screw flange; Strain relief plate; direct marking; 1,50 mm ² ; black	www.wago.com/713-1110/107-9037/033-000

Optional accessories

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

Downloads

Documentation

Additional Information

2019 Apr 3 pdf 2.1 MB Download

CAD/CAE-Data

CAD data

2D/3D Models 713-1430/107-000 URL Download

PCB Design

Symbol and Footprint via Ultra Librarian 713-1430/107-000

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[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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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

Symbol and Footprint via SamacSys 713-1430/107-000 [URL](#) [Download](#)

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Supported formats:

—
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- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAE data

ZUKEN Portal 713-1430/107-000	URL	Download
Asset Administration Shell		
Asset Administration Shell 713-1430/107-000	URL	Download

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 713-1430/107-000

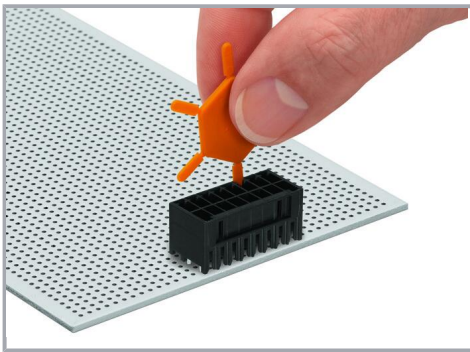
URL

Download

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; 20-pole; black

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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