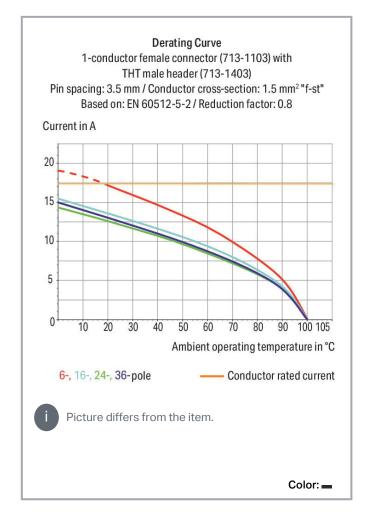
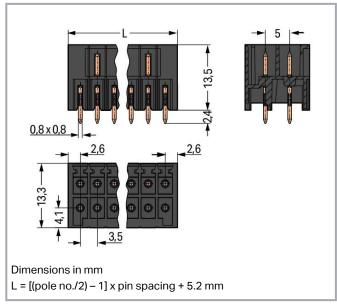
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; in tape-and-reel packaging; Pin spacing 3.5 mm; 26-pole; black



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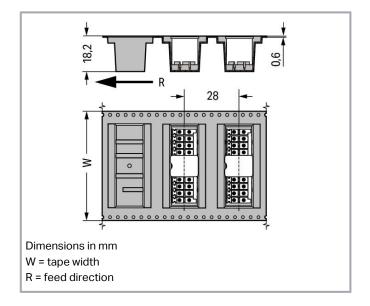


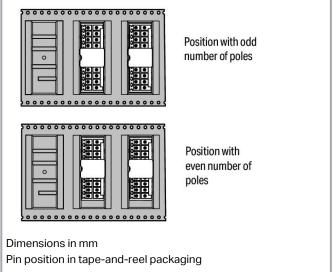


 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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## Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- 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**

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

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## 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)

# 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	26
Number of connection types	1
Number of levels	2

### **Connection 1**

## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	47 mm / 1.85 inches
Height	15.9 mm / 0.626 inches
Height from the surface	13.5 mm / 0.531 inches

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Depth	13.3 mm / 0.524 inches
Solder pin length	2.4 mm
Solder pin dimensions	0.8 x 0.8 mm
Plated through-hole diameter (THR)	1.3 <sup>(±0.1)</sup> mm
Reel diameter of tape-and-reel packaging	330 mm
Tape width	72 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	THR
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

black
Polyphthalamide (PPA GF)
VO
Electrolytic copper (E <sub>Cu</sub> )
Tin
6.5 g

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### **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
ECCN	NO DATA
PU (SPU)	120 pcs
Packaging type	bag
Country of origin	DE
GTIN	4050821308645
Customs tariff number	85366930000

## **Environmental Product Compliance**

RoHS Compliance Status	Compliant,No Exemption
------------------------	------------------------

## Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
<b>(1)</b>	CSA CSA Group	C22.2	2315087
<b>∠</b> EMA	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 126089

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#### Counterpart



#### Item no.713-1113

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 26-pole; 100% protected against mismating; 1,50 mm²; black

www.wago.com /713-1113

#### Optional accessories

Coaina
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Coding



Item no.: 714-101 Coding key; orange

www.wago.com/714-101

### **Downloads**

#### **Documentation**

#### **Additional Information**

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.1 MB	
THR Soldering Process		pdf	Download
		548.2 kB	

#### CAD/CAE-Data

#### CAD data

2D/3D Models 713-1413/105-000/997-408 URL Download

#### **Asset Administration Shell**

Asset Administration Shell 713-1413/105-000/997-408 URL Download

### **PCB** Design

Symbol and Footprint via Ultra Librarian 713-1413/105-000/997-408

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

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- 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 2021 Zuken CR-5000 and CR-8000

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

Symbol and Footprint via SamacSys 713-1413/105-000/997-408

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:

- 3D (stp)
- **Altium**
- **CADSTAR**
- Capture
- CircuitStudio

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

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**URL** 

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- 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

### **Environmental Product Compliance**

#### Compliance Search

Environmental Product Compliance 713-1413/105-000/997-408

THR male header, 2-row;  $0.8 \times 0.8$  mm solder pin; straight; 100% protected against mismating; in tape-and-reel packaging; Pin spacing 3.5 mm; 26-pole; black

URL Download

### **Installation Notes**

Coding

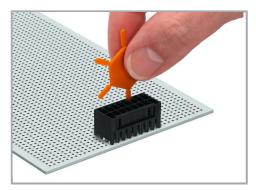
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Coding a male header by inserting a coding pin.

## **Product family**

MCS MINI HD Show all products from the family

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

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