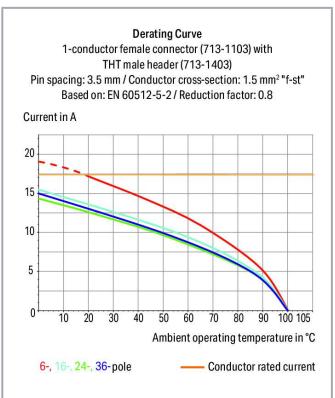
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 36-pole; black



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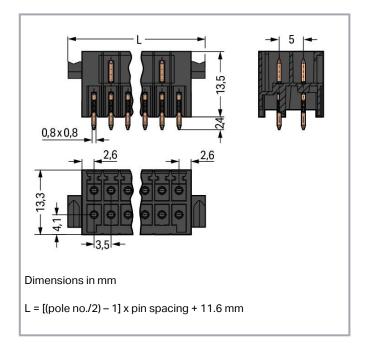
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

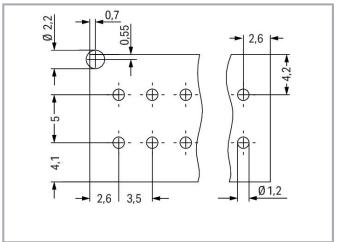
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# Item description

- 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/.

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

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#### 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 1059

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	36
Number of connection types	1
Number of levels	2

#### Connection 1

Pole number	2.2
Pole number	36

# Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	71.1 mm / 2.799 inches

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Height	15.9 mm / 0.626 inches
Height from the surface	13.5 mm / 0.531 inches
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

#### **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	Locking lever

# **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

Color	black
Material group	T. Control of the con
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	VO
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.189 MJ
Weight	8.7 g

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MSL gemäß J-STD 020D

# **Environmental requirements**

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

1

#### 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)	10 pcs
Packaging type	box
Country of origin	PL
GTIN	4050821156239
Customs tariff number	85366990990

#### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

#### Approvals / Certificates

#### General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	UR	UL 1059	E45172



Underwriters Laboratories Inc.

# Counterpart



#### Item no.713-1118/037-000

1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 36-pole; 100% protected against mismating; Levers; 1,50 mm²; black

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### Optional accessories

#### Coding

Coding



Item no.: 714-101 Coding key; orange

www.wago.com/714-101

URL

Download

# Downloads

# Documentation

#### **Additional Information**

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.0 MB	
THR Soldering Process		pdf 548.2 kB	Download

#### CAD/CAE-Data

#### **CAD** data

2D/3D Models 713-1418/116-000 URL Download

#### **PCB** Design

Symbol and Footprint 713-1418/116-000

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

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- 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 713-1418/116-000 URL Download

#### **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 713-1418/116-000

oct

Download

URL

THR male header, 2-row;  $0.8 \times 0.8$  mm solder pin; straight; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 36-pole; black

#### **Installation Notes**

Coding

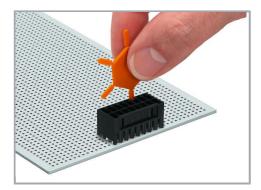
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Coding a male header by inserting a coding pin.

# **Product family**

MCS MINI HD
Show all products from the family

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

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