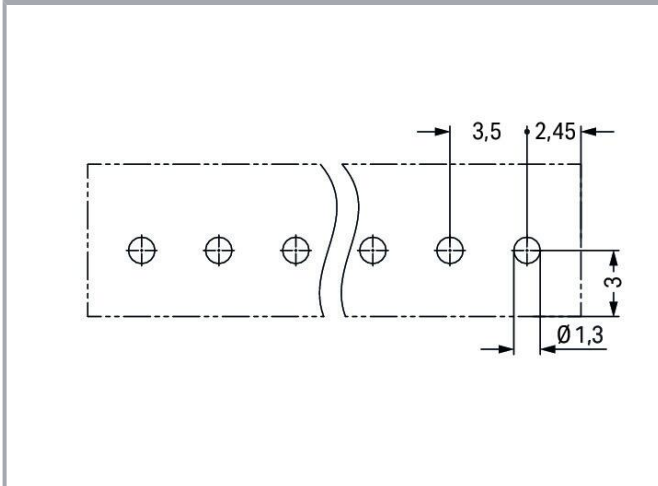
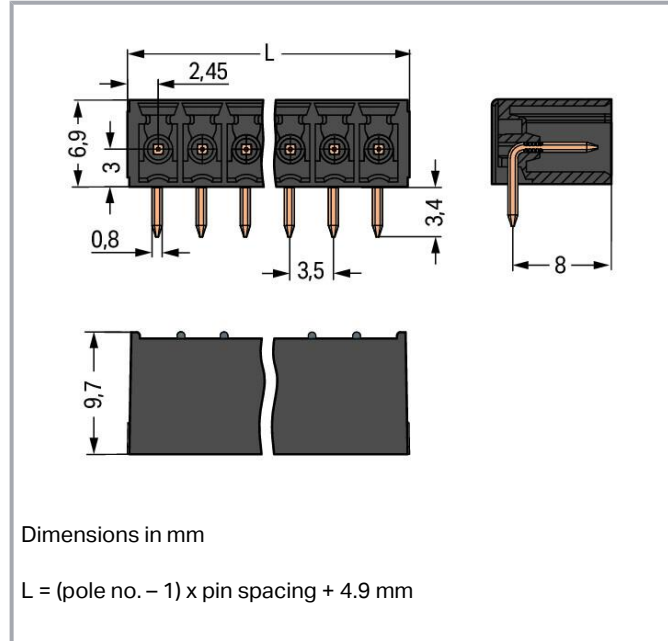


Data sheet | Item number: 714-166

THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 6-pole; black

www.wago.com/714-166



Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Header housing is molded of THR-compatible insulation material for lead-free Reflow soldering

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

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- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 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 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)	160 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)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	8 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)	8 A

Connection data

Total number of potentials	6
Number of connection types	1
Number of levels	1

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Connection 1

Pole number	6
-------------	---

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	22.4 mm / 0.882 inches
Height	10.3 mm / 0.406 inches
Height from the surface	6.9 mm / 0.272 inches
Depth	9.7 mm / 0.382 inches
Solder pin length	3.4 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	No
Plugging without loss of pin spacing	No
Mating direction to the PCB	0°

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

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

Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.026 MJ
Weight	1.3 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	27-44-04-01
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	200 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454859190
Customs tariff number	85366990990

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	NTR NL-7604
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2198681.01

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





UR
Underwriters Laboratories Inc.

UL 1059

E45172

Counterpart

	Item no.714-106/000-047 1-conductor female connector; push-button; 1.5 mm ² ; Pin spacing 3.5 mm; 6-pole; direct marking; 1,50 mm ² ; black	www.wago.com/714-106/000-047
	Item no.714-106 1-conductor female connector; push-button; 1.5 mm ² ; Pin spacing 3.5 mm; 6-pole; 1,50 mm ² ; black	www.wago.com/714-106

Optional accessories

Coding

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		2.0 MB	

CAD/CAE-Data

CAD data

2D/3D Models 714-166	URL	Download
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PCB Design

Symbol and Footprint 714-166	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:

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

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- 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

CAE data

ZUKEN Portal 714-166	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 714-166	URL	Download
THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 6-pole; black		

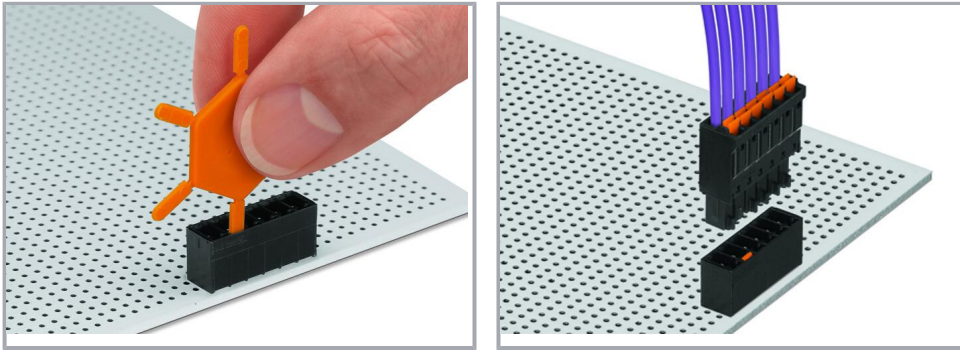
Installation Notes

Coding

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

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Coding a male header by inserting a coding pin. Coded connectors

Product family

MCS MINI SL

[Show all products from the family](#)

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