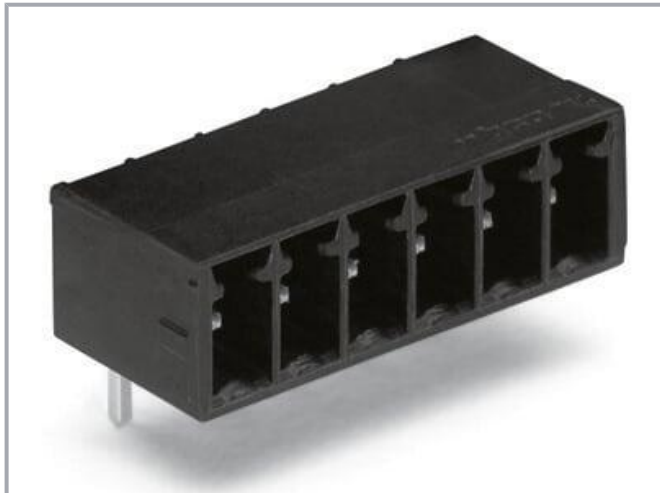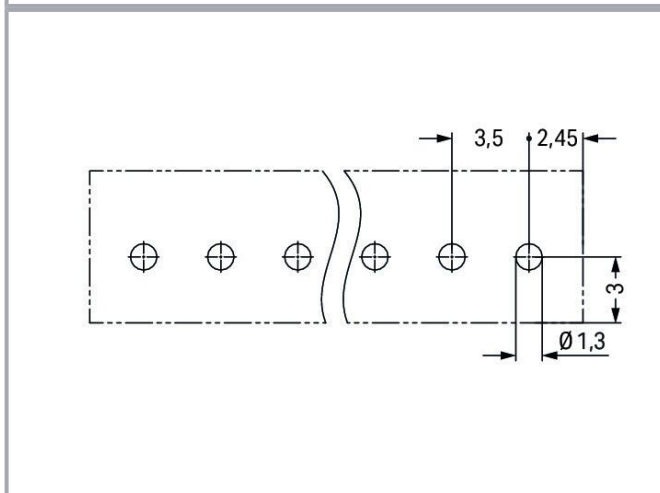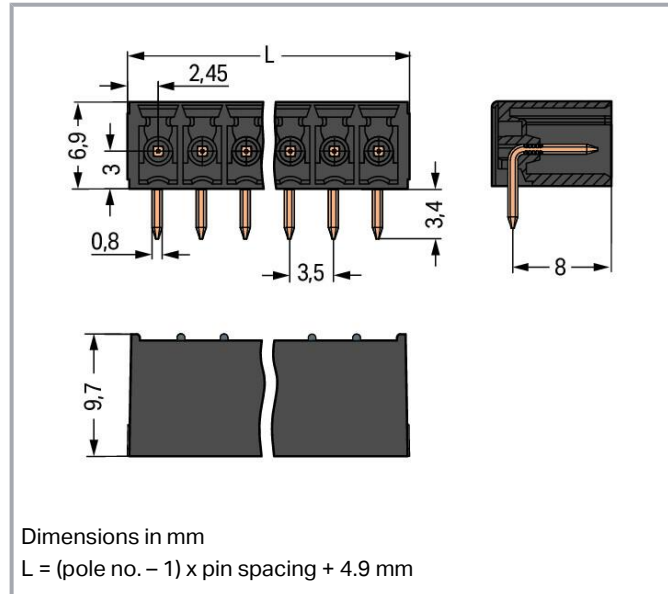# Data sheet | Item number: 714-163

THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 3-pole; black

www.wago.com/714-163

ⓘ Picture differs from the item.

Color: ▬

Dimensions in mm
L = (pole no. – 1) x pin spacing + 4.9 mm

Item description

■ Male headers may be mounted horizontally or vertically via straight or angled solder pins

—

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

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

- Header housing is molded of THR-compatible insulation material for lead-free Reflow soldering
- 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

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	3
Number of connection types	1

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

Number of levels	1

Connection 1

Pole number	3

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	11.9 mm / 0.469 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

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

Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact plating	Tin
Fire load	0.015 MJ
Weight	0.7 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	4045454859145
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
CCA	**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.714-103 1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; 1,50 mm²; black	www.wago.com/714-103
	Item no.714-103/000-047 1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; direct marking; 1,50 mm²; black	www.wago.com/714-103/000-047

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

PCB Design

Symbol and Footprint via Ultra Librarian 714-163	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

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

- 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 714-163	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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
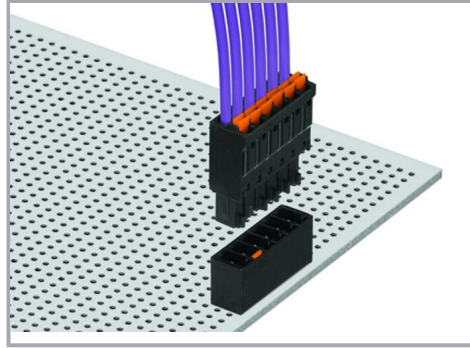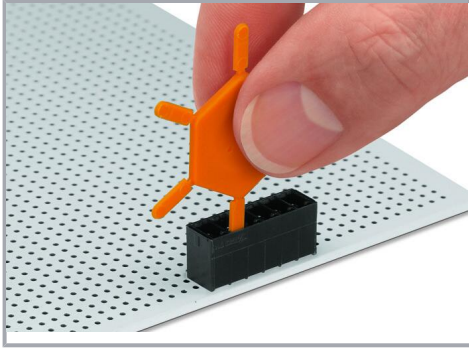Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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- 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 714-163	URL	Download

CAD data

2D/3D Models 714-163	URL	Download

Asset Administration Shell

Asset Administration Shell 714-163	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 714-163	URL	Download

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

THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 3-pole; black

Installation Notes

Coding

Coding a male header by inserting a coding pin.

Coded connectors

Product family

MCS MINI SL

Show all products from the family