

**Data sheet | Item number: 714-164**

THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 4-pole; black

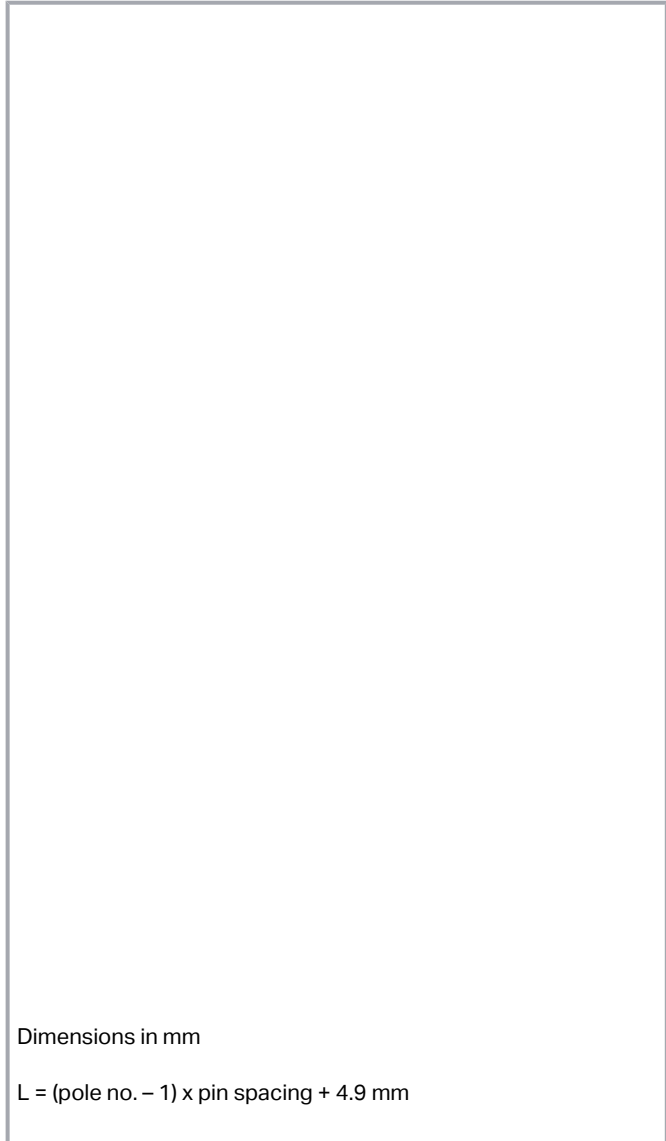


[www.wago.com/714-164](http://www.wago.com/714-164)



**i** Picture differs from the item.

Color:



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 4.9 \text{ mm}$

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 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

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/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) $\triangleq$ 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	4
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	4
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### Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	15.4 mm / 0.606 inches

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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 <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	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
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.017 MJ
Weight	0.9 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	27-44-04-01
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	200 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454859169
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	NTR NL-7604
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	2198681.01
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

## Counterpart

<b>Item no.714-104</b> 1-conductor female connector; push-button; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 4-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/714-104">www.wago.com/714-104</a>
<b>Item no.714-104/000-047</b> 1-conductor female connector; push-button; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 4-pole; direct marking; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/714-104/000-047">www.wago.com/714-104/000-047</a>

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## Optional accessories

### Coding

Coding

Item no.: 714-101  
Coding key; orange

[www.wago.com/714-101](http://www.wago.com/714-101)

## Downloads

### Documentation

#### Additional Information

2019 年4月3日

pdf  
2.0 MB

Download

## CAD/CAE-Data

### PCB Design

Symbol and Footprint 714-164

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
- 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!

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- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

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#### CAD data

2D/3D Models 714-164	URL	Download
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#### CAE data

ZUKEN Portal 714-164	URL	Download
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 714-164	URL	Download
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### 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](#)

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