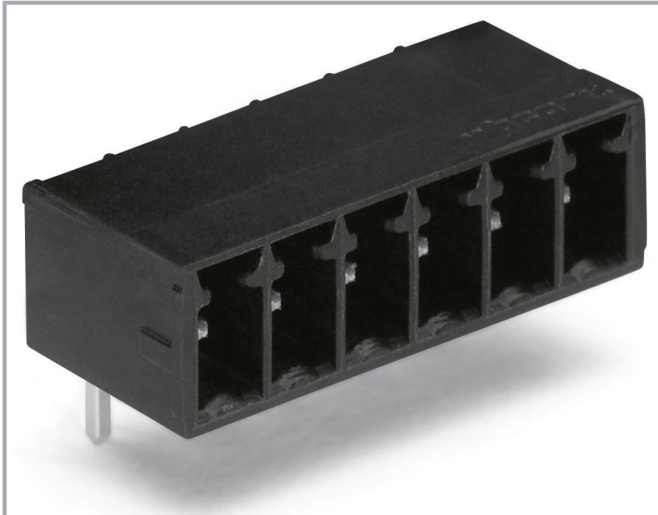


**Data sheet | Item number: 714-163**

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

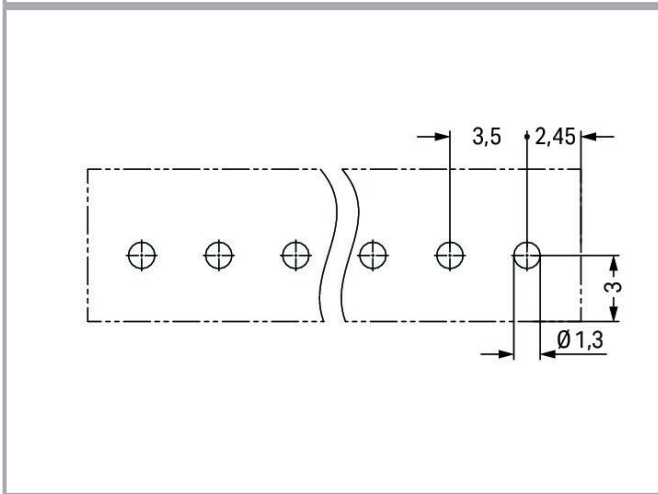
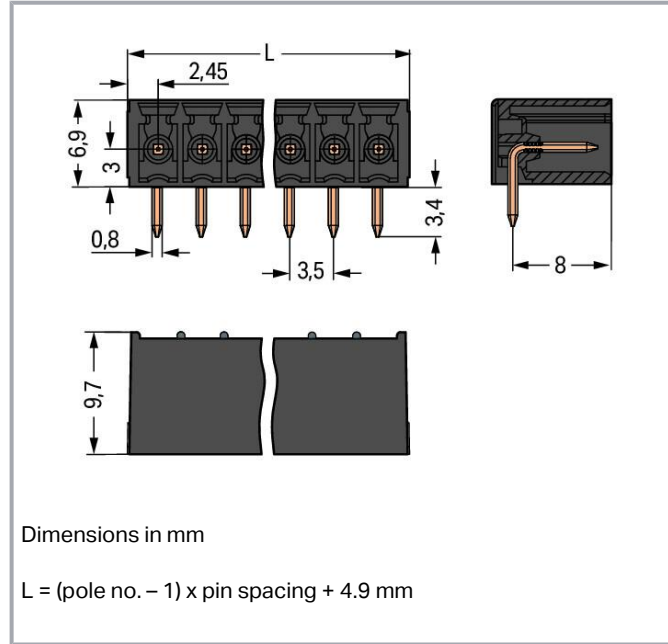


[www.wago.com/714-163](http://www.wago.com/714-163)



 Picture differs from the item.

Color: 



**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!

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- 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 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 | 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 <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) | <a href="#">Information on material specifications can be found here</a> |
| 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 <sub>Cu</sub> ) |
| 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 | 85366990990            |

### Environmental Product Compliance

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

### Approvals / Certificates

#### General approvals

| Logo   | Approval                              | Additional Approval Text | Certificate name |
|--|---------------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.       | EN 61984                 | NTR NL-7604      |
|  | KEMA/KEUR<br>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 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole; 1,50 mm<sup>2</sup>; black

[www.wago.com/714-103](http://www.wago.com/714-103)



Item no.714-103/000-047

1-conductor female connector; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 3-pole; direct marking; 1,50 mm<sup>2</sup>; black

[www.wago.com/714-103/000-047](http://www.wago.com/714-103/000-047)

## 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

|                        |            |        |          |
|------------------------|------------|--------|----------|
| Technical Section      | 2019 Apr 3 | pdf    | Download |
| Technical explanations |            | 2.0 MB |          |

## CAD/CAE-Data

### PCB Design

Symbol and Footprint 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:

—  
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

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#### CAE data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 714-163 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

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#### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 714-163 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

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### Environmental Product Compliance

#### Compliance Search

|   |                     |                          |
|---|---------------------|--------------------------|
| Environmental Product Compliance 714-163  | <a href="#">URL</a> | <a href="#">Download</a> |
| THT male header; 0.8 x 0.8 mm solder pin; angled; Pin spacing 3.5 mm; 3-pole; black |                     |                          |

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

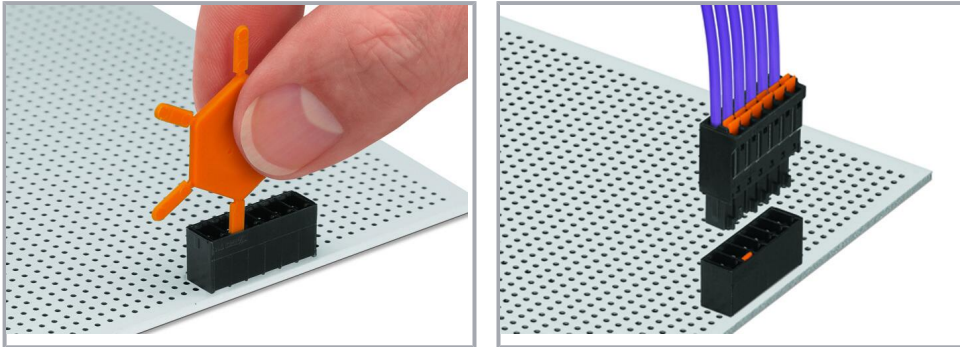
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## Installation Notes

### Coding



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

## Product family

**MCS MINI SL**

[Show all products from the family](#)

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