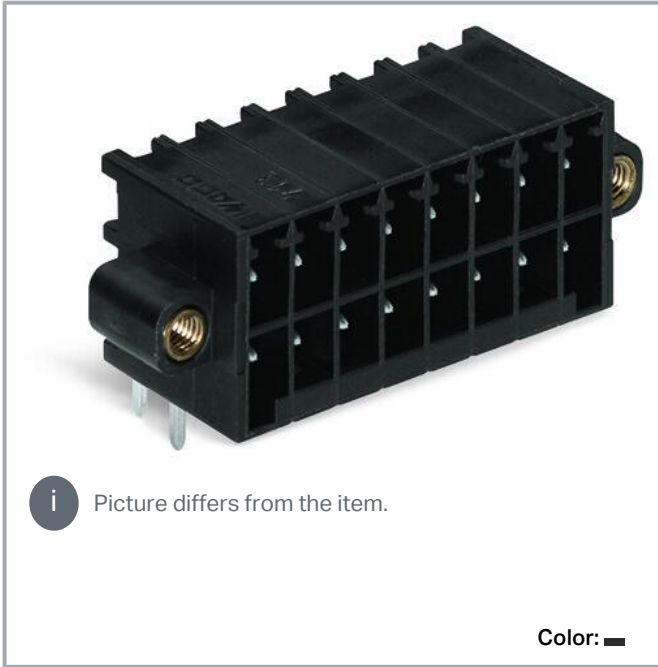


Data sheet | Item number: 713-1424/107-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 8-pole; black

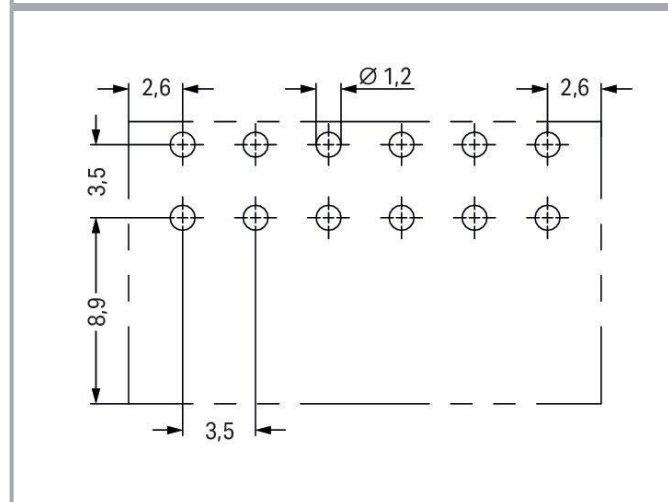
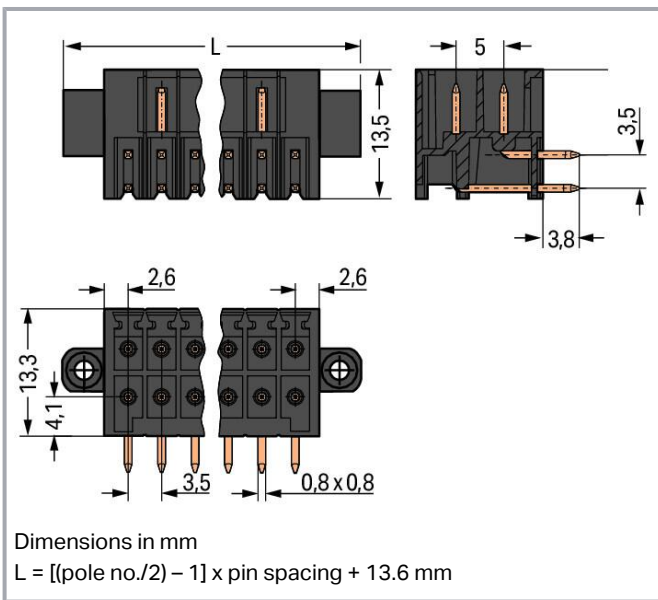
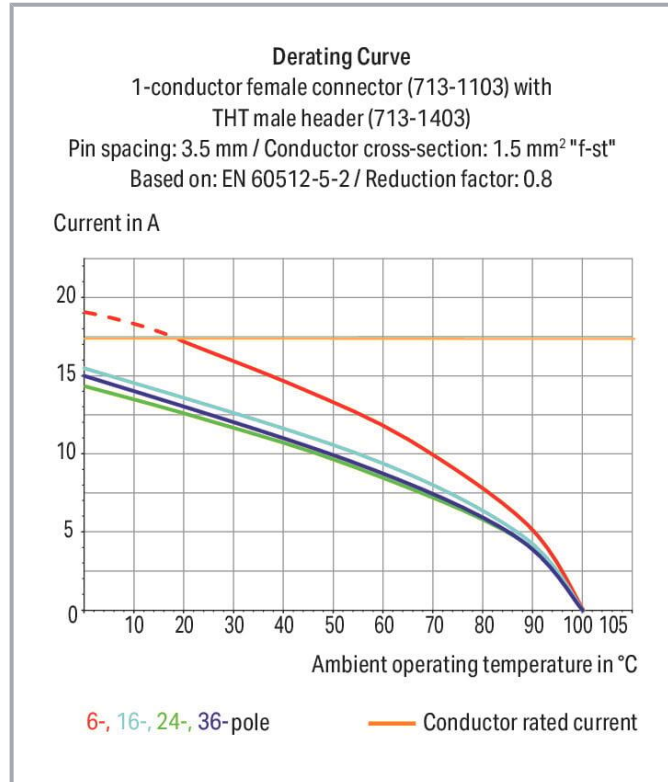


[www.wago.com/713-1424/107-000](http://www.wago.com/713-1424/107-000)



**i** Picture differs from the item.

Color:



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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 THT-compatible insulation material for lead-free reflow soldering
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- 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/>.

## 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

|               |         |
|---------------|---------|
| Approvals per | UL 1059 |
|---------------|---------|

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|                                |       |
|--------------------------------|-------|
| 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 | 8 |
| Number of connection types | 1 |
| Number of levels           | 2 |

### Connection 1

|             |   |
|-------------|---|
| Pole number | 8 |
|-------------|---|

### Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 3.5 mm / 0.138 inches    |
| Width                                | 24.1 mm / 0.949 inches   |
| Height                               | 17.1 mm / 0.673 inches   |
| Height from the surface              | 13.3 mm / 0.524 inches   |
| Depth                                | 13.5 mm / 0.531 inches   |
| Solder pin length                    | 3.8 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             |

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|                                      |                 |
|--------------------------------------|-----------------|
| Mismating protection                 | Yes             |
| Plugging without loss of pin spacing | No              |
| Mating direction to the PCB          | 0°              |
| Locking of plug-in connection        | Threaded flange |

### 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                   | 0.057 MJ                               |
| Weight                      | 3.1 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        | 27-44-04-02            |
| ETIM 8.0          | EC002637               |
| ETIM 7.0          | EC002637               |
| ECCN              | NO DATA                |
| PU (SPU)          | 50 pcs                 |
| Packaging type    | box                    |
| Country of origin | PL                     |

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|                       |               |
|-----------------------|---------------|
| GTIN                  | 4045454809119 |
| Customs tariff number | 85366930000   |

## Environmental Product Compliance

|   |                                      |
|---|--------------------------------------|
| CAS-No.                                   | 7439-92-1                            |
| REACH Candidate List Substance            | Lead                                 |
| RoHS Compliance Status                    | Compliant,With Exemption             |
| RoHS Exemption                            | 6(c)                                 |
| SCIP notification number (Austria)        | d99bcd3b-af60-4407-b53b-055dce1a638b |
| SCIP notification number (Belgium)        | 3de151d7-2475-491c-95eb-21f65aecc513 |
| SCIP notification number (Bulgaria)       | 1441d252-abba-4b21-95c9-4f28850bad96 |
| SCIP notification number (Czech Republic) | 4519fa85-fd28-4a5b-a55d-9dc3a686cbd4 |
| SCIP notification number (Denmark)        | ded757f6-6125-4375-b4d4-3b09adf731c3 |
| SCIP notification number (Finland)        | ab6c1494-efe9-42c6-8d43-3f6bebdaafc1 |
| SCIP notification number (France)         | 332666af-5d0b-46df-b16e-8c2156f7fead |
| SCIP notification number (Germany)        | 72a26b01-50f1-4bee-ae9e-11d61e0a0131 |
| SCIP notification number (Hungary)        | d034f263-660c-481c-86f4-5025c69cf12e |
| SCIP notification number (Italy)          | 570c327d-b5ea-430c-8fde-2d6352af3d6d |
| SCIP notification number (Netherlands)    | 267a54a2-ea77-45b6-a4df-497fb76e9ec0 |
| SCIP notification number (Poland)         | fa07204e-c9bf-4899-91ee-90967697c362 |
| SCIP notification number (Romania)        | 388eb7f4-3d20-4bc0-a910-66c83c3917f3 |
| SCIP notification number (Sweden)         | 83685aa9-397a-47e3-b07f-51257f7a4910 |






## Approvals / Certificates

### General approvals


| Logo   | Approval                              | Additional Approval Text | Certificate name |
|--|---------------------------------------|--------------------------|------------------|
|  | CSA<br>CSA Group                      | C22.2                    | 2315087          |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984                 | 71-<br>126089    |
|  | UR<br>Underwriters Laboratories Inc.  | UL 1059                  | E45172           |

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## Counterpart

|  |  |  |
|--|--|--|
|  | <p><b>Item no.713-1104/107-000</b><br/>                     1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; black</p>   | <a href="http://www.wago.com/713-1104/107-000">www.wago.com/713-1104/107-000</a>                   |
|  | <p><b>Item no.713-1104/107-9037</b><br/>                     1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismatching; Screw flange; direct marking; 1,50 mm²; black</p>                              | <a href="http://www.wago.com/713-1104/107-9037">www.wago.com/713-1104/107-9037</a>                 |
|  | <p><b>Item no.713-1104/107-047</b><br/>                     1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismatching; Screw flange; direct marking; 1,50 mm²; black</p>                               | <a href="http://www.wago.com/713-1104/107-047">www.wago.com/713-1104/107-047</a>                   |
|  | <p><b>Item no.713-1104/107-047/032-000</b><br/>                     1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismatching; Screw flange; Strain relief plate; direct marking; 1,50 mm²; black</p>  | <a href="http://www.wago.com/713-1104/107-047/032-000">www.wago.com/713-1104/107-047/032-000</a>   |
|   | <p><b>Item no.713-1104/107-9037/032-000</b><br/>                     1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismatching; Screw flange; Strain relief plate; direct marking; 1,50 mm²; black</p> | <a href="http://www.wago.com/713-1104/107-9037/032-000">www.wago.com/713-1104/107-9037/032-000</a> |

## Optional accessories

|  |   |  |
|--|---|--|
| <b>Coding</b>  |   |  |
| Coding   |   |  |
|  | <p><b>Item no.: 714-101</b><br/>                     Coding key; orange</p> | <a href="http://www.wago.com/714-101">www.wago.com/714-101</a> |

## Downloads

### Documentation

#### Additional Information

|                        |            |        |          |
|------------------------|------------|--------|----------|
| Technical Section      | 2019 Apr 3 | pdf    | Download |
| Technical explanations |            | 2.1 MB |          |

## CAD/CAE-Data

### CAD data

|                               |     |          |
|-------------------------------|-----|----------|
| 2D/3D Models 713-1424/107-000 | URL | Download |
|-------------------------------|-----|----------|

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## PCB Design

Symbol and Footprint via Ultra Librarian 713-1424/107-000

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
- 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 2021 Zuken CR-5000 and CR-8000

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

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Symbol and Footprint via SamacSys 713-1424/107-000

URL

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Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- 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 713-1424/107-000

[URL](#)

[Download](#)

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#### Asset Administration Shell

Asset Administration Shell 713-1424/107-000

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 713-1424/107-000

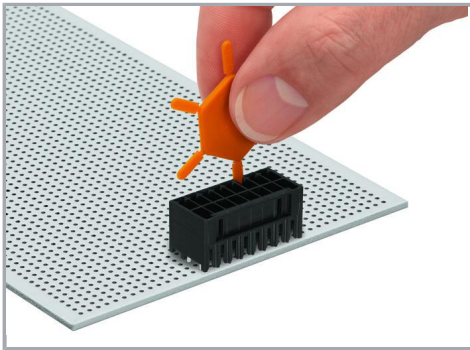
[URL](#)

[Download](#)

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 8-pole; black

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.

## Product family

**MCS MINI HD**

[Show all products from the family](#)

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