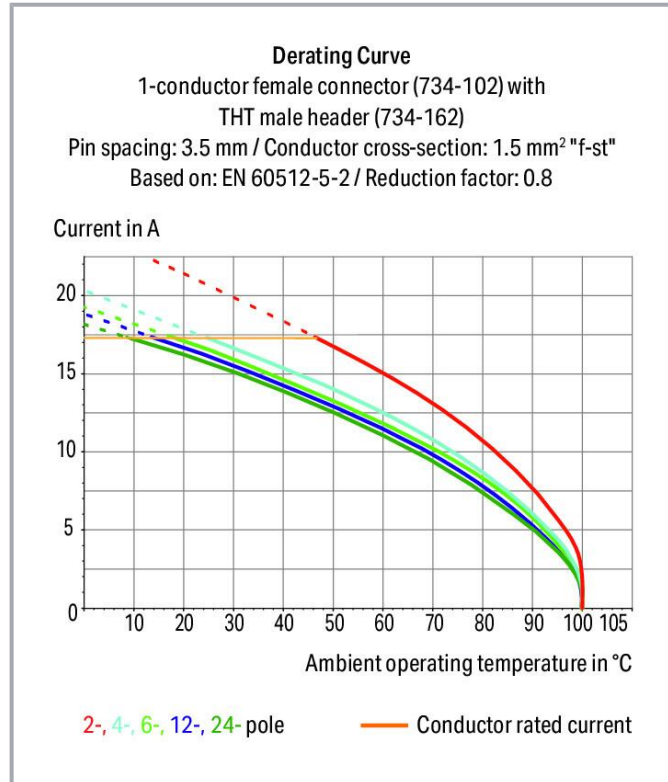
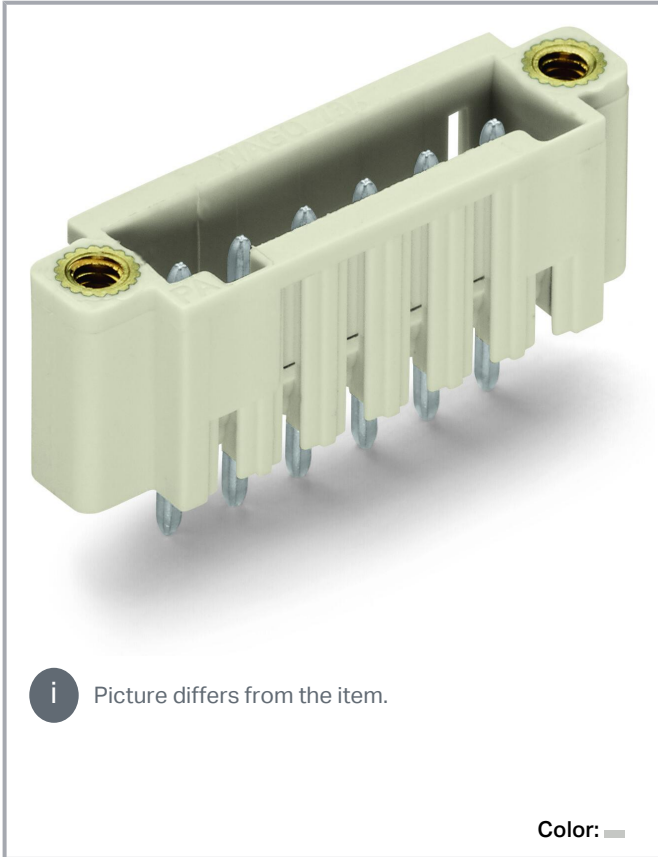


**Data sheet | Item number: 734-146/108-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 16-pole; light gray



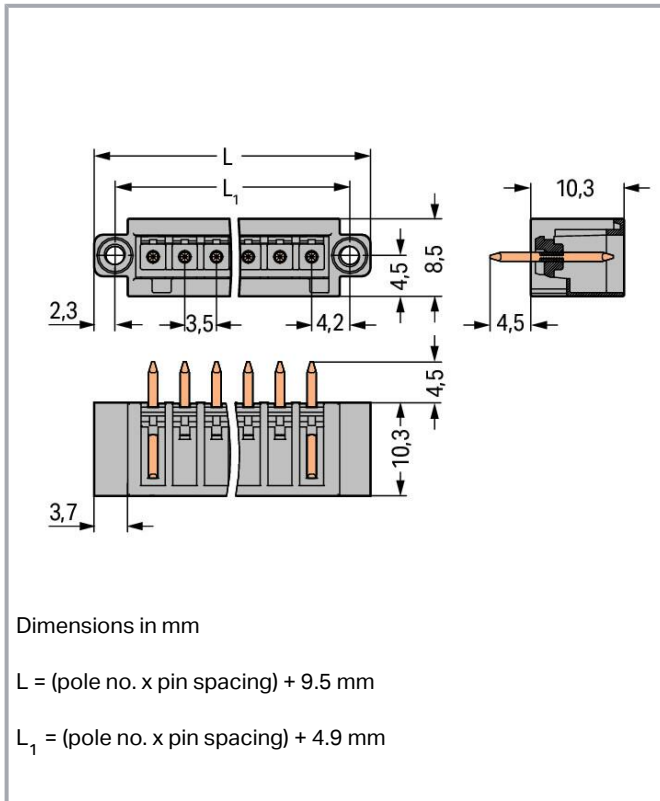
[www.wago.com/734-146/108-000](http://www.wago.com/734-146/108-000)



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](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismatching; only mating halves with the same number of poles can be connected together
- 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  
 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/>.

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

## 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                 | 10 A  |
| Legend (ratings)              | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Ratings per UL 1059

| Approvals per                  | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 10 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

### Ratings per CSA

| Approvals per                   | CSA   |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

## Connection data

|                            |    |
|----------------------------|----|
| Total number of potentials | 16 |
| Number of connection types | 1  |
| Number of levels           | 1  |

### Connection 1

|             |    |
|-------------|----|
| Pole number | 16 |
|-------------|----|

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



## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 3.5 mm / 0.138 inches    |
| Width                                | 65.5 mm / 2.579 inches   |
| Height                               | 14.8 mm / 0.583 inches   |
| Height from the surface              | 10.3 mm / 0.406 inches   |
| Depth                                | 8.5 mm / 0.335 inches    |
| Solder pin length                    | 4.5 mm                   |
| Solder pin dimensions                | 1 x 1 mm                 |
| Drilled hole diameter with tolerance | 1.4 <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                 | Yes                 |
| Plugging without loss of pin spacing | No                  |
| Mating direction to the PCB          | 90 °                |
| 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                       | light gray   |
| Material group              | I  |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                   |

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|                 |          |
|-----------------|----------|
| Contact plating | Tin      |
| Fire load       | 0.068 MJ |
| Weight          | 4.2 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               |
| PU (SPU)              | 50 pcs                 |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4045454618711          |
| Customs tariff number | 85366990990            |

### Environmental Product Compliance

|   |                                      |
|---|--------------------------------------|
| CAS-No.                                   | 7439-92-1                            |
| REACH Candidate List Substance            | Lead                                 |
| RoHS Compliance Status                    | Compliant,With Exemption             |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II    |
| SCIP notification number (Austria)        | 4ef5bd50-00ff-474c-ac76-82108a7be69d |
| SCIP notification number (Belgium)        | 09c7a059-868a-470b-abae-775dbd43f6e6 |
| SCIP notification number (Bulgaria)       | 12dc0481-9768-4c33-897c-591489534b15 |
| SCIP notification number (Czech Republic) | 1e94e63f-682a-40e6-b0ac-a276d806dc6b |
| SCIP notification number (Denmark)        | b2a024ef-9e64-4705-84a6-76e3de1ca9c3 |
| SCIP notification number (Finland)        | 340284da-5156-4888-82c8-04c4b28005be |
| SCIP notification number (France)         | d7771db7-00bf-4082-ae65-eaf67c685623 |
| SCIP notification number (Germany)        | 2e70b088-bd0c-45d4-baa9-98dfd493867f |
| SCIP notification number (Hungary)        | 83bc102f-58bd-422d-984f-72a6ec2ce240 |

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|  |                                      |
|--|--------------------------------------|
| SCIP notification number (Italy)       | ebd6ff26-7954-4eba-85ce-6ec7c93a2f2e |
| SCIP notification number (Netherlands) | fe7207f5-6b08-4871-9236-37b5ae9b6ee2 |
| SCIP notification number (Poland)      | 9fbbdf44-ac7a-4eef-85e1-4ce129c83298 |
| SCIP notification number (Romania)     | aa0c3b09-0e91-4ad2-8c30-4ac42a37979c |
| SCIP notification number (Sweden)      | 04ef2192-b92f-4104-bb7e-5ab67107bf6d |

## Approvals / Certificates


### General approvals

| Logo  | Approval                                    | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|   | <b>CSA</b><br>DEKRA Certification B.V.      | C22.2                    | 1465035          |
|   | <b>UL</b><br>UL International Germany GmbH  | UL 1977                  | E45171           |
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

### Declarations of conformity and manufacturer's declarations

| Logo   | Approval                             | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|------------------|
|  | <b>Railway</b><br>WAGO GmbH & Co. KG | -                        | Railway Ready    |

### Approvals for marine applications

| Logo  | Approval                         | Additional Approval Text | Certificate name |
|---|----------------------------------|--------------------------|------------------|
|  | <b>BV</b><br>Bureau Veritas S.A. | IEC 60998                | 11915/D0<br>BV   |

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## Counterpart



Item no.734-116/107-000

1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Screw flange; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-116/107-000](http://www.wago.com/734-116/107-000)



Item no.2734-116/107-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; Screw flange; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2734-116/107-000](http://www.wago.com/2734-116/107-000)

## Optional accessories

### Coding

#### Coding



Item no.: 734-159

Coding key; to be snapped above top level; black

[www.wago.com/734-159](http://www.wago.com/734-159)



Item no.: 734-130

Coding key; to be snapped above top level; white

[www.wago.com/734-130](http://www.wago.com/734-130)

## Downloads

### Documentation

#### Additional Information

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

## CAD/CAE-Data

### PCB Design

|                                      |     |          |
|--------------------------------------|-----|----------|
| Symbol and Footprint 734-146/108-000 | 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
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries

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



- 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 734-146/108-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

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#### CAD data

|                              |                     |                          |
|------------------------------|---------------------|--------------------------|
| 2D/3D Models 734-146/108-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

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## Environmental Product Compliance

### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 734-146/108-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|--|---------------------|--------------------------|

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 16-pole; light gray

---

## Installation Notes

### Coding

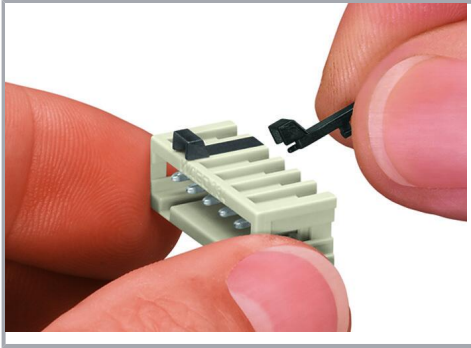
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Coding a male header – fitting coding key(s).

## Product family

**MCS MINI**

[Show all products from the family](#)

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