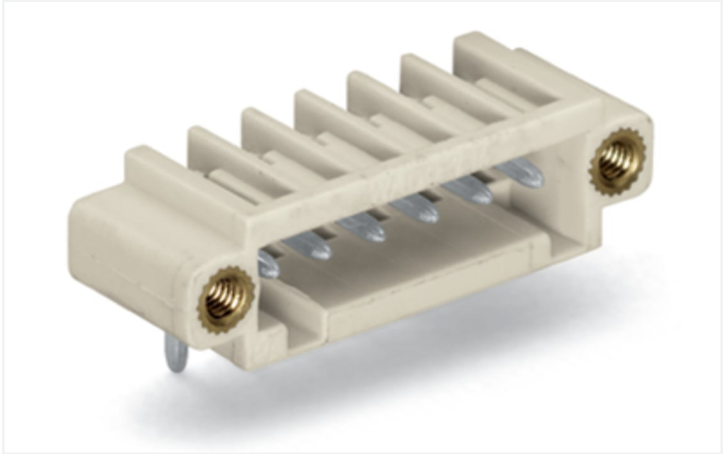


Data Sheet | Item Number: 734-165/108-000

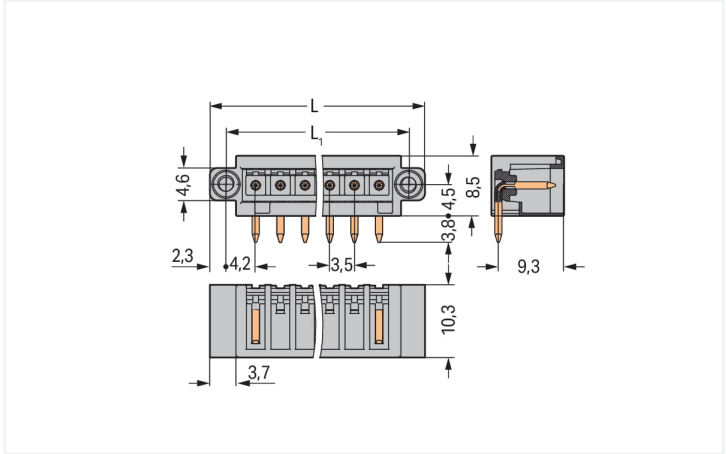
THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 5-pole; light gray

<https://www.wago.com/734-165/108-000>

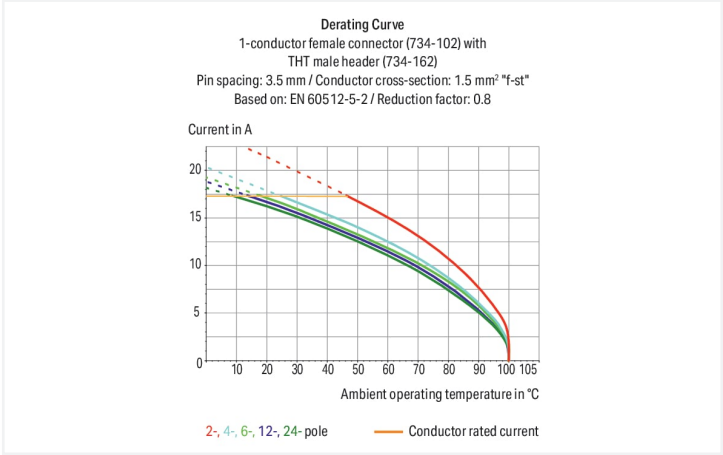


Color: ■ light gray

Similar to illustration



Dimensions in mm  
L = (pole no. x pin spacing) + 9.5 mm  
L1 = (pole no. x pin spacing) + 4.9 mm



- 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

| 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<br>Gold-plated or partially gold-plated contact surfaces<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> . |  |  |
|-----------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

| Electrical data      |  |                |        |        |
|----------------------|--|----------------|--------|--------|
| Ratings per          |  | IEC/EN 60664-1 |        |        |
| Overvoltage category |  | III            | III    | II     |
| Pollution degree     |  | 3              | 2      | 2      |
| Nominal voltage      |  | 160 V          | 160 V  | 320 V  |
| Rated surge voltage  |  | 2.5 kV         | 2.5 kV | 2.5 kV |
| Rated current        |  | 10 A           | 10 A   | 10 A   |
| Approvals per        |  | UL 1059        |        |        |
| Use group            |  | B              | C      | D      |
| Rated voltage        |  | 300 V          | -      | 300 V  |
| Rated current        |  | 10 A           | -      | 10 A   |



| Approvals per |       | CSA |       |
|---------------|-------|-----|-------|
| Use group     | B     | C   | D     |
| Rated voltage | 300 V | -   | 300 V |
| Rated current | 10 A  | -   | 10 A  |

| Connection data            |   |              |   |
|----------------------------|---|--------------|---|
| Total number of potentials | 5 | Connection 1 |   |
| Number of connection types | 1 | Pole number  | 5 |
| Number of levels           | 1 |              |   |

| Physical data                        |                        |  |
|--------------------------------------|------------------------|--|
| Pin spacing                          | 3.5 mm / 0.138 inches  |  |
| Width                                | 27 mm / 1.063 inches   |  |
| Height                               | 12.3 mm / 0.484 inches |  |
| Height from the surface              | 8.5 mm / 0.335 inches  |  |
| Depth                                | 10.3 mm / 0.406 inches |  |
| Solder pin length                    | 3.8 mm                 |  |
| Solder pin dimensions                | 1 x 1 mm               |  |
| Drilled hole diameter with tolerance | 1.4 (+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               | Yes                 |  |
| 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)               | <a href="#">Information on material specifications can be found here</a> |  |
| Color                              | light gray                                                               |  |
| Material group                     | I                                                                        |  |
| Insulation material (main housing) | Polyamide (PA66)                                                         |  |
| Flammability class per UL94        | V0                                                                       |  |
| Contact material                   | Electrolytic copper (E <sub>CU</sub> )                                   |  |
| Contact Plating                    | Tin                                                                      |  |
| Fire load                          | 0.03 MJ                                                                  |  |
| Weight                             | 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 9.0              | EC002637               |
| ETIM 8.0              | EC002637               |
| PU (SPU)              | 200 pcs                |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4045454683061          |
| 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)        | b499f30b-885a-410e-99b3-7d51c461d58f |
| SCIP notification number (Belgium)        | 38d0ab6e-5c09-42a2-bf36-b0a76f39d5a4 |
| SCIP notification number (Bulgaria)       | bee99415-a781-4f6f-9807-6f32ebe769ca |
| SCIP notification number (Czech Republic) | ecaaa598-61ca-4cc7-beda-752c81e55d76 |
| SCIP notification number (Denmark)        | 26612804-c0c4-4280-97c0-102604faece6 |
| SCIP notification number (Finland)        | 0f05f634-762f-4340-916a-5a49975d97df |
| SCIP notification number (France)         | e47f5fbf-dbb1-4464-8f22-5d07206b9d47 |
| SCIP notification number (Germany)        | 75af6283-35ad-4ee1-9b96-79355b8be19e |
| SCIP notification number (Hungary)        | 61f33ea9-9244-460d-b8a2-d8746347cf63 |
| SCIP notification number (Italy)          | 4c9fd3ea-1300-4cc1-9c61-7478976c8e27 |
| SCIP notification number (Netherlands)    | d010cf64-3a09-4d1c-bdbd-8bc671a24713 |
| SCIP notification number (Poland)         | 1bc599a9-7edd-4f85-8ac6-9b5732866804 |
| SCIP notification number (Romania)        | b48c5cc7-8998-4e19-9355-4e2c13a40d10 |
| SCIP notification number (Sweden)         | 737940b8-5cac-43af-9540-06c07cd15ad3 |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance  
734-165/108-000

↓

Documentation

| Additional Information |            |                   |  |
|------------------------|------------|-------------------|--|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB |  |

CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>734-165/108-000 |
|                                 |

| CAE data                        |
|---------------------------------|
| ZUKEN Portal<br>734-165/108-000 |
|                                 |

| PCB Design                                                     |
|----------------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys<br>734-165/108-000        |
|                                                                |
| Symbol and Footprint<br>via Ultra Librarian<br>734-165/108-000 |
|                                                                |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[Item No.: 734-105/107-000](#)  
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray



[Item No.: 2734-105/107-000](#)  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



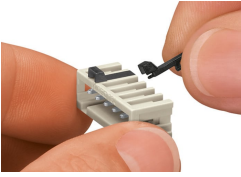
[Item No.: 734-159](#)  
Coding key; to be snapped above top level; black



[Item No.: 734-130](#)  
Coding key; to be snapped above top level; white

## Installation Notes

### Coding



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