

Data Sheet | Item Number: 734-178

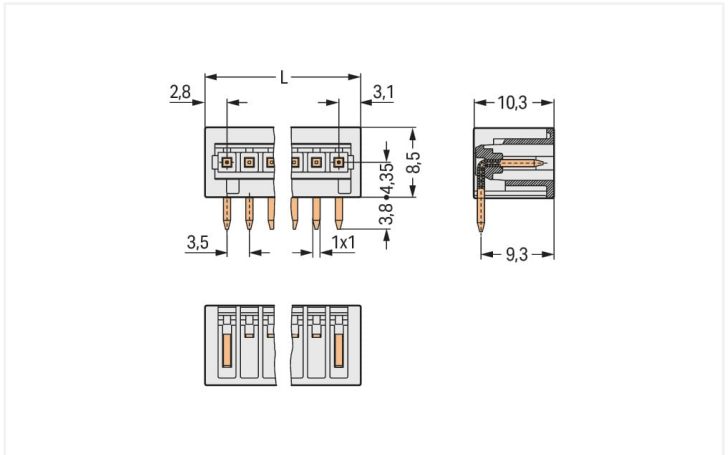
THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 18-pole; light gray

<https://www.wago.com/734-178>

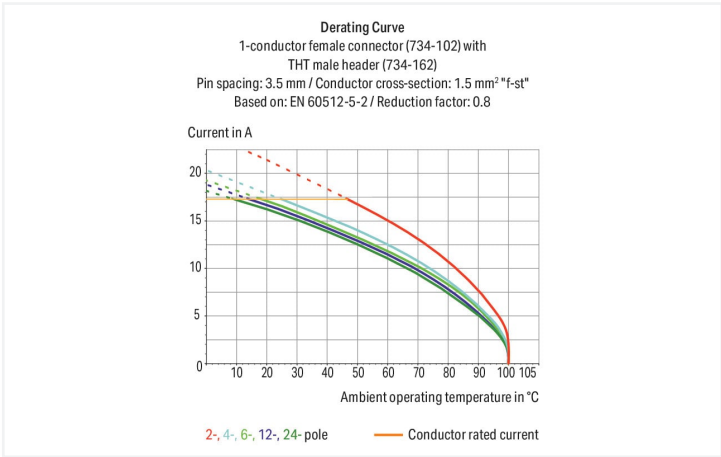


Color: ■ light gray

Similar to illustration



Dimensions in mm  
L = (pole no. – 1) x pin spacing + 5.9 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>3.8 mm pin projection for male headers with straight solder pins<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 | 18 | Connection 1 |    |
| Number of connection types | 1  | Pole number  | 18 |
| Number of levels           | 1  |              |    |

| Physical data                        |                        |  |
|--------------------------------------|------------------------|--|
| Pin spacing                          | 3.5 mm / 0.138 inches  |  |
| Width                                | 65.4 mm / 2.575 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 °                 |  |

| 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         | Polyamide (PA66)   |  |
| Flammability class per UL94 | V0   |  |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                                   |  |
| Contact plating             | Tin  |  |
| Fire load                   | 0.067 MJ   |  |
| Weight                      | 4.6 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                  | 4044918872454          |
| Customs tariff number | 85366930000            |



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

| Downloads                                |                   |
|--|-------------------|
| Environmental Product Compliance         |                   |
| Compliance Search                        |                   |
| Environmental Product Compliance 734-178 | <a href="#">↓</a> |

| Documentation          |  |
|------------------------|--|
| Additional Information |  |
| Technical Section      | <div>03.04.2019pdf2027.26 KB</div> <a href="#">↓</a> |

| CAD/CAE-Data         |   |
|----------------------|---|
| CAD data             | CAE data  |
| 2D/3D Models 734-178 | <div>EPLAN Data Portal734-178</div> <a href="#">↓</a> |
|                      | <div>ZUKEN Portal 734-178</div> <a href="#">↓</a>     |



| PCB Design   |   |
|--|---|
| Symbol and Footprint<br>via SamacSys 734-178           |  |
| Symbol and Footprint<br>via Ultra Librarian<br>734-178 |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

|  |   |  |   |
|--|---|--|---|
|  |   |  |   |
| <b>Item No.: 734-118</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; 1,50 mm²; light gray  | <b>Item No.: 734-118/037-000</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray                       | <b>Item No.: 734-118/037-000/036-000</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 1,50 mm²; light gray | <b>Item No.: 2734-118</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; 1,50 mm²; light gray |
|  |   |  |   |
| <b>Item No.: 2734-118/027-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; light gray | <b>Item No.: 2734-118/037-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray | <b>Item No.: 734-548</b><br>THT female header; angled; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray  | <b>Item No.: 734-548/037-000</b><br>THT female header; angled; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray          |
|  |   |  |   |
| <b>Item No.: 734-478</b><br>THT female header; straight; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray  | <b>Item No.: 734-478/037-000</b><br>THT female header; straight; Pin spacing 3.5 mm; 18-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray  |  |   |

1.2 Optional Accessories

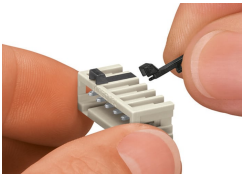
1.2.1 Coding

1.2.1.1 Coding

|  |  |
|--|--|
|  |  |
| <b>Item No.: 734-159</b><br>Coding key; to be snapped above top level; black | <b>Item No.: 734-130</b><br>Coding key; to be snapped above top level; white |

Installation Notes

Coding



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

