

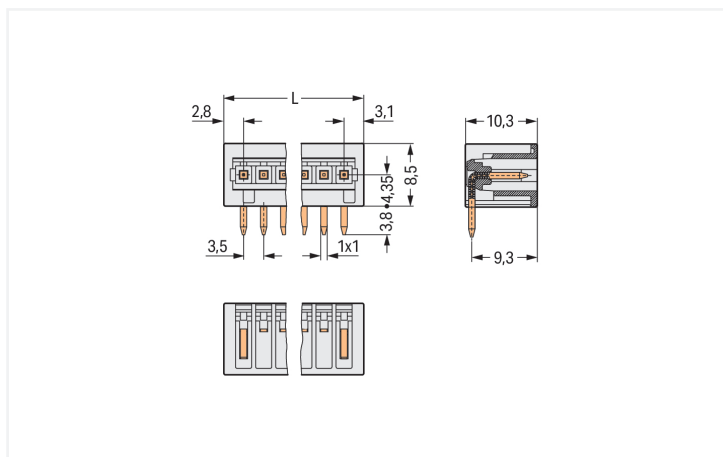
## Data Sheet | Item Number: 734-174

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 14-pole; light gray

<https://www.wago.com/734-174>



Color: ■ light gray



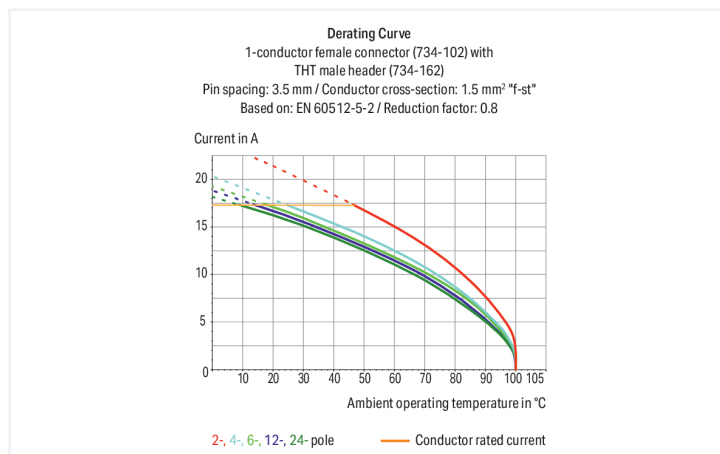
Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$

Male connector, 734 Series, solder pin dimensions 1 x 1 mm

This male connector (item number 734-174) is designed for seamless electrical installations. The item's dimensions are (12.4 x 12.3 x 10.3) mm (width x height x depth).

Tin is used for coating the contact surfaces. The pcb connector is designed for THT soldering.





| 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 impulse withstand 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 | 14 |
| Number of connection types | 1  |
| Number of levels           | 1  |
| Connection 1               |    |
| Pole number                | 14 |

| Physical data                        |                        |
|--------------------------------------|------------------------|
| Pin spacing                          | 3.5 mm / 0.138 inches  |
| Width                                | 12.4 mm / 0.488 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 (main housing) |  | Polyamide (PA66)                                                         |
| Flammability class per UL94        |  | V0                                                                       |
| Contact material                   |  | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact Plating                    |  | Tin                                                                      |
| Fire load                          |  | 0.052 MJ                                                                 |
| Weight                             |  | 3.5 g                                                                    |

| Environmental requirements |  |                 |
|----------------------------|--|-----------------|
| Limit temperature range    |  | -60 ... +100 °C |
| Processing temperature     |  | -35 ... +60 °C  |

| Commercial data       |  |                        |
|-----------------------|--|------------------------|
| Product Group         |  | 3 (Multi Conn. System) |
| PU (SPU)              |  | 50 pcs                 |
| Packaging type        |  | Box                    |
| Country of origin     |  | PL                     |
| GTIN                  |  | 4044918872430          |
| Customs tariff number |  | 85366930000            |

| Product Classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39121409             |
| eCl@ss 10.0            |  | 27-44-04-02          |
| eCl@ss 9.0             |  | 27-44-04-02          |
| ETIM 9.0               |  | EC002637             |
| ETIM 10.0              |  | EC002637             |
| ECCN                   |  | NO US CLASSIFICATION |

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

Downloads

| Environmental Product Compliance         |  |
|------------------------------------------|--|
| Compliance Search                        |  |
| Environmental Product Compliance 734-174 |  |

Documentation

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

CAD/CAE-Data

| CAD data             |  | CAE data                  |  |
|----------------------|--|---------------------------|--|
| 2D/3D Models 734-174 |  | EPLAN Data Portal 734-174 |  |
|                      |  | ZUKEN Portal 734-174      |  |

| PCB Design                                       |  |
|--------------------------------------------------|--|
| Symbol and Footprint via SamacSys 734-174        |  |
| Symbol and Footprint via Ultra Librarian 734-174 |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

|                                                                                                                                                                                                                          |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                        |                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 734-114</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; 1,50 mm²; light gray                                                | <br><b>Item No.: 734-114/037-000</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray                       | <br><b>Item No.: 734-114/037-000/035-000</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 1,50 mm²; light gray | <br><b>Item No.: 2734-114</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; 1,50 mm²; light gray |
| <br><b>Item No.: 2734-114/027-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; light gray | <br><b>Item No.: 2734-114/037-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray | <br><b>Item No.: 734-544</b><br>THT female header; angled; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray                                                                        | <br><b>Item No.: 734-544/037-000</b><br>THT female header; angled; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray          |

1.1.1 Female connector/socket



**Item No.: 734-474**  
THT female header; straight; Pin spacing 3.5 mm; 14-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray

**Item No.: 734-474/037-000**  
THT female header; straight; Pin spacing 3.5 mm; 14-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

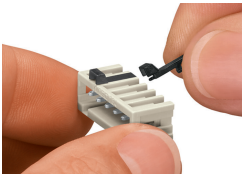
1.2.1.1 Coding

**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).