

Data sheet | Item number: 734-144/105-604

THR male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 14-pole; black



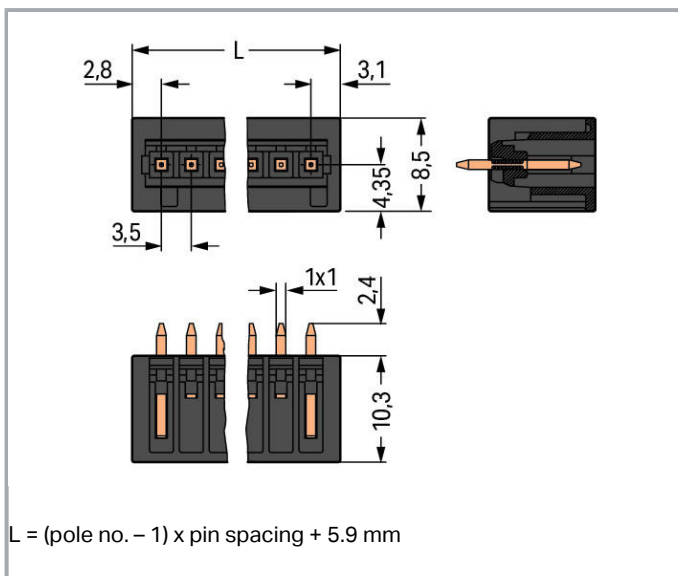
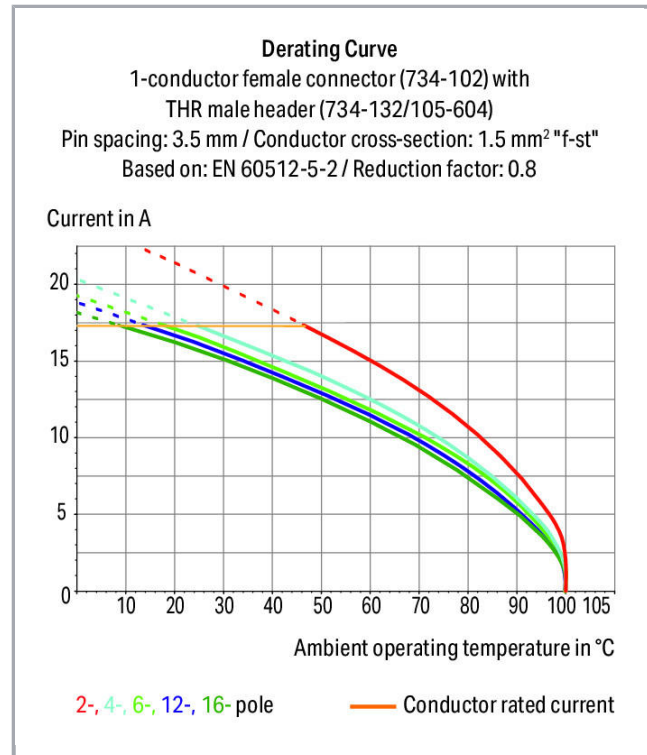
[www.wago.com/734-144/105-604](http://www.wago.com/734-144/105-604)



RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color: ■



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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Optimal thermal penetration via pin enclosure design provides lower soldering temperatures
- 100% protected against mismatching
- Coding via coding fingers

### Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

| Ratings per                     | IEC/EN 60664-1  |
|---------------------------------|---|
| Rated 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  |
| Rated voltage (II / 2)          | 320 V   |
| Rated impulse voltage (II / 2)  | 2.5 kV  |
| Rated current                   | 10 A  |
| Legend (ratings)                | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

#### 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    |
| Approvals per                  | UL 1059 |

#### Approvals per CSA

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

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

### Connection data

|                            |    |
|----------------------------|----|
| No. of poles               | 14 |
| Total number of potentials | 14 |
| Number of connection types | 1  |
| Number of levels           | 1  |

### Geometrical Data

|                                    |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 3.5 mm / 0.138 inch      |
| Width                              | 52.4 mm / 2.063 inch     |
| Height                             | 12.7 mm / 0.5 inch       |
| Height from the surface            | 10.3 mm / 0.406 inch     |
| Depth                              | 8.5 mm / 0.335 inch      |
| Solder pin length                  | 2.4 mm                   |
| Solder pin dimensions              | 1 x 1 mm                 |
| Plated through-hole diameter (THR) | 1.4 <sup>(+0.1)</sup> mm |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for PCBs            |
| Mismating protection               | Yes                 |
| Mating direction to the PCB        | 90°                 |

### PCB contact

|                                     |   |
|-------------------------------------|---|
| PCB contact                         | THR                                     |
| Solder pin arrangement              | over the entire male connector, in line |
| Number of solder pins per potential | 1                                       |

### Material Data

|                             |                          |
|-----------------------------|--------------------------|
| Color                       | black                    |
| Material group              | I                        |
| Insulating material         | Polyphthalamide (PPA GF) |
| Flammability class per UL94 | V0                       |
| Contact material            |                          |

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|                 | Electrolytic copper (E <sub>Cu</sub> ) |
|-----------------|--|
| Contact plating | tin-plated                             |
| Fire load       | 0.064 MJ                               |
| Weight          | 3.4 g                                  |

### Environmental Requirements



|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

### Commercial data


|                    |                        |
|--------------------|------------------------|
| Product Group      | 3 (Multi Conn. System) |
| Packaging type     | BOX                    |
| Country of origin  | PL                     |
| GTIN               | 4045454842710          |
| Customs Tariff No. | 85366990990            |

### Approvals / Certificates

#### Country specific Approvals

| Logo   | Approval                        | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 61984                 | 2169534.02       |
|  | CCA<br>DEKRA Certification B.V. | EN 61984                 | nl-54190         |
|  | CSA<br>DEKRA Certification B.V. | C22.2                    | 1465035          |



#### Ship Approvals

| Logo   | Approval                           | Additional Approval Text | Certificate name         |
|--|------------------------------------|--------------------------|--------------------------|
|  | ABS<br>American Bureau of Shipping | -                        | 19-<br>HG1869876-<br>PDA |

#### UL-Approvals

Certificate

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| Logo   | Approval                             | Additional Approval Text | name            |
|--|--------------------------------------|--------------------------|-----------------|
|  | UL<br>UL International Germany GmbH  | UL 1977                  | 20150318-E45171 |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | 20190122-E45172 |

### Counterpart



Item no. 734-114

1-conductor female plug; 100% protected against mismatching; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 14-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-114](http://www.wago.com/734-114)

### Compatible products

#### Coding



Item no.: 734-130

Coding key; to be snapped above top level; white

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

Item no.: 734-159

Coding key; to be snapped above top level; black

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

### Downloads

#### Documentation

##### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |
|------------------------|-------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 734-144/105-604 | URL | Download |
|------------------------------|-----|----------|

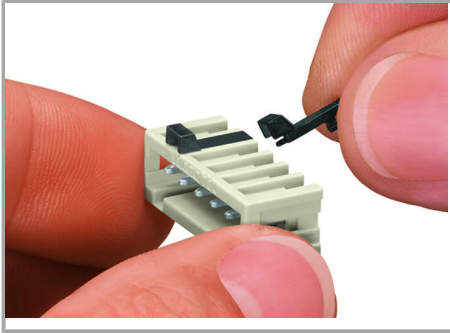
### Installation Notes

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## Coding



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

## Product family

*MCS* MINI

[Learn more about the product family.](#)

[Show all products from the family](#)

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