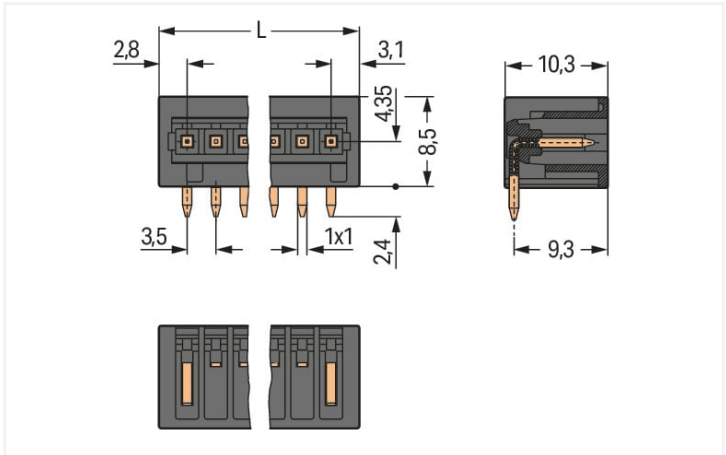


**Data Sheet | Item Number: 734-164/105-604**  
THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 4-pole; black  
<https://www.wago.com/734-164/105-604>

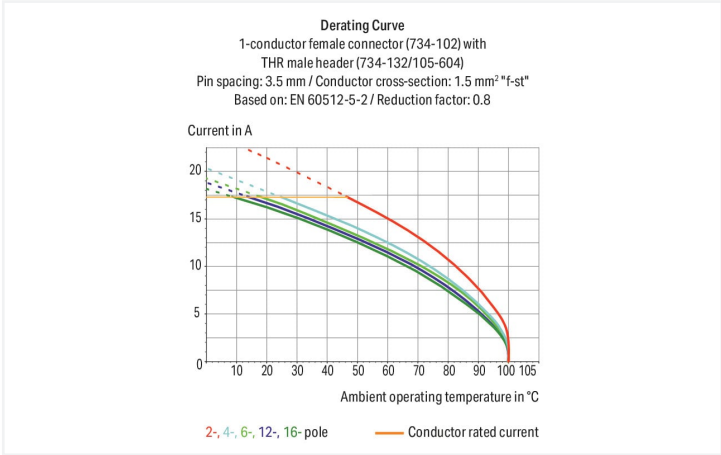


Color: ■ black

Similar to illustration



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



- 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

| 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>Other solder pin lengths<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        |        | CSA            |        |  |
| Use group            | B      | C              | D      |  |
| Rated voltage        | 300 V  | -              | 300 V  |  |
| Rated current        | 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    |  |

| Connection data | | | | |
| Total number of potentials | 4 | Connection 1 | | |
| Number of connection types | 1 | Pole number | 4 | |
| Number of levels | 1 |  | | |
| Physical data | | | | |
| Pin spacing | 3.5 mm / 0.138 inches | | | |
| Width | 16.4 mm / 0.646 inches | | | |
| Height | 10.9 mm / 0.429 inches | | | |
| Height from the surface | 8.5 mm / 0.335 inches | | | |
| Depth | 10.3 mm / 0.406 inches | | | |
| 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 | | | |
| 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 | THR | | | |
| Solder pin arrangement | over the entire male connector (in-line) | | | |
| Number of solder pins per potential | 1 | | | |



| Material data               |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | black                                                                                                                  |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyphthalamide (PPA GF)                                                                                               |
| Flammability class per UL94 | V0                                                                                                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                                                                                 |
| Contact plating             | Tin                                                                                                                    |
| Fire load                   | 0.021 MJ                                                                                                               |
| Weight                      | 1.2 g                                                                                                                  |
| MSL per J-STD 020D          | 1                                                                                                                      |

| 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)              | 200 pcs                |
| Packaging type        | Box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918848909          |
| Customs tariff number | 85366930000            |

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

| Downloads                                           |  |
|-----------------------------------------------------|--|
| Environmental Product Compliance                    |  |
| Compliance Search                                   |  |
| Environmental Product Compliance<br>734-164/105-604 |  |

Documentation

| Additional Information |            |                   |  |
|------------------------|------------|-------------------|--|
| Technical Section      | 03.04.2019 | pdf<br>2010.85 KB |  |
|                        |            | pdf<br>535.32 KB  |  |

CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>734-164/105-604 |



| CAE data                             |
|--------------------------------------|
| EPLAN Data Portal<br>734-164/105-604 |
| ZUKEN Portal<br>734-164/105-604      |



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



**Item No.: 734-104**  
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; 100% protected against mismatching; 1,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



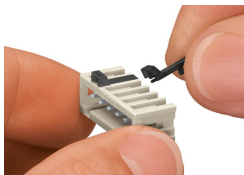
**Item No.: 734-159**  
Coding key; to be snapped above top level; black



**Item No.: 734-130**  
Coding key; to be snapped above top level; white

Installation Notes

Coding



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