

**Data Sheet | Item Number: 733-363/105-604/997-406**

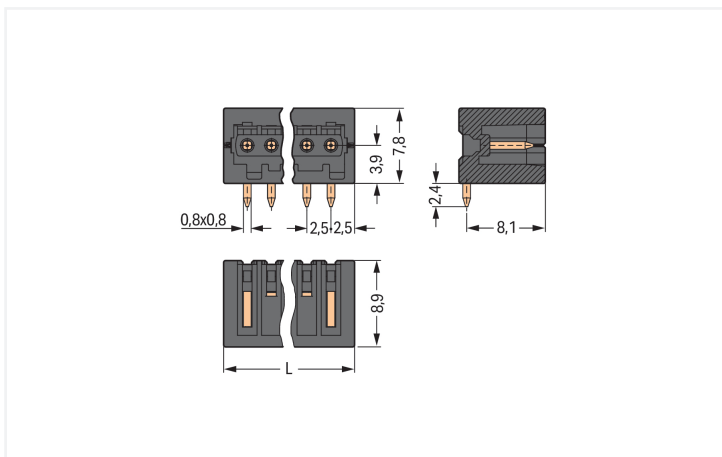
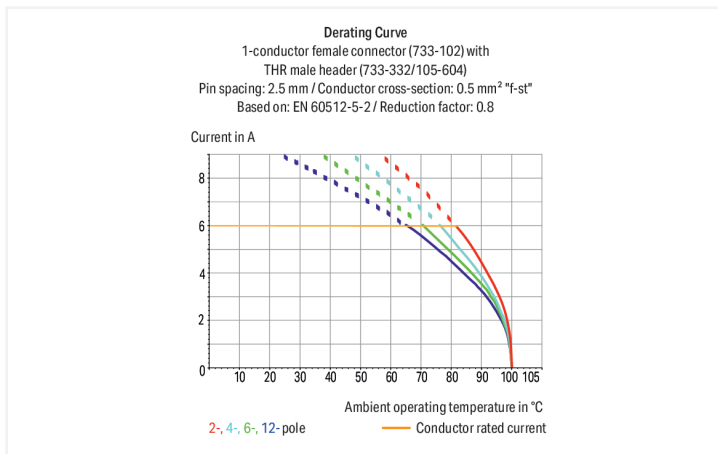
THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 2.5 mm; 3-pole; black

<https://www.wago.com/733-363/105-604/997-406>

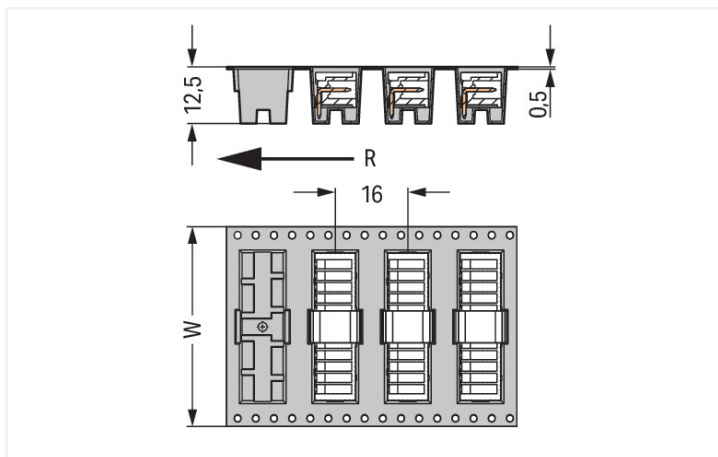


Color: ■ black

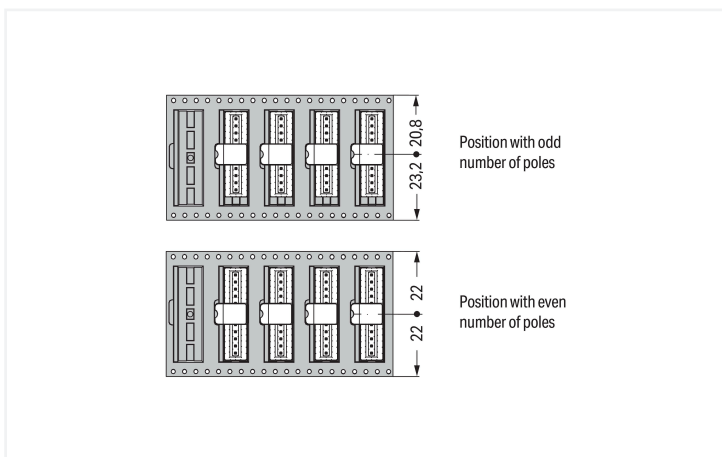
Similar to illustration



Dimensions in mm  
L = (pole no. + 1) x pin spacing



Dimensions in mm  
W = tape width R = feed direction



Dimensions in mm  
Pin position in tape-and-reel packaging



Male connector, 733 Series, black

Our male connector (item number 733-363/105-604/997-406) ensures effortless electrical installations. The dimensions are (10 x 10.2 x 8.9) mm (width x height x depth).

Tin is used for coating the contact surfaces. THR is used to solder the pcb connector.

| 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 |        |        | Approvals per | UL 1059 |   |   |
|---------------------------------|----------------|--------|--------|---------------|---------|---|---|
| Overvoltage category            | III            | III    | II     | Use group     | B       | C | D |
| Pollution degree                | 3              | 2      | 2      | Rated voltage | 150 V   | - | - |
| Nominal voltage                 | 80 V           | 160 V  | 320 V  | Rated current | 4 A     | - | - |
| Rated impulse withstand voltage | 2.5 kV         | 2.5 kV | 2.5 kV |               |         |   |   |
| Rated current                   | 6 A            | 6 A    | 6 A    |               |         |   |   |

| Approvals per | CSA   |   |   |
|---------------|-------|---|---|
| Use group     | B     | C | D |
| Rated voltage | 150 V | - | - |
| Rated current | 4 A   | - | - |

### Connection Data

|                            |   |                     |   |
|----------------------------|---|---------------------|---|
| Total number of potentials | 3 | <b>Connection 1</b> |   |
| Number of connection types | 1 | Pole number         | 3 |
| Number of levels           | 1 |                     |   |

### Physical data

|                                          |                          |
|------------------------------------------|--------------------------|
| Pin spacing                              | 2.5 mm / 0.098 inches    |
| Width                                    | 10 mm / 0.394 inches     |
| Height                                   | 10.2 mm / 0.402 inches   |
| Height from the surface                  | 7.8 mm / 0.307 inches    |
| Depth                                    | 8.9 mm / 0.35 inches     |
| Solder pin length                        | 2.4 mm                   |
| Solder pin dimensions                    | 0.8 x 0.8 mm             |
| Plated through-hole diameter (THR)       | 1.2 <sup>(+0.1)</sup> mm |
| Reel diameter of tape-and-reel packaging | 330 mm                   |
| Tape width                               | 44 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="#">Information on material specifications can be found here</a> |
| Color                              | black                                                                    |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyphthalamide (PPA GF)                                                 |
| Flammability class per UL94        | V0                                                                       |
| Contact material                   | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.016 MJ                                                                 |
| Weight                             | 0.6 g                                                                    |
| MSL per J-STD 020D                 | 1                                                                        |

### Environmental requirements

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

### Commercial data

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 300 pcs       |
| Packaging type        | Bag           |
| Country of origin     | DE            |
| GTIN                  | 4045454815066 |
| 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 ↓

### Documentation

#### Additional Information

|                   |            |                   |   |
|-------------------|------------|-------------------|---|
| Technical Section | 03.04.2019 | pdf<br>2027.26 KB | ↓ |
|                   |            | pdf<br>535.32 KB  | ↓ |

### CAD/CAE-Data

CAD data ↓

PCB Design ↓  
↓

### 1 Compatible Products

#### 1.1 System counterpart

##### 1.1.1 Female connector/socket



**Item No.: 733-103**  
 1-conductor female connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 3-pole; 100% protected against mismatching; light gray

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

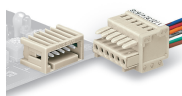


Item No.: [733-331](#)

Coding key; snap-on type; black

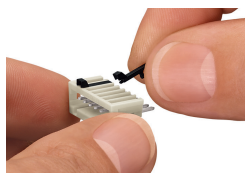
## Installation Notes

### Mismating protection



Male headers and female connectors are 100% protected against mismating. Only mating halves with the same pole number can be connected.

## Coding



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