

# Data sheet | Item number: 733-372/105-604

THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 12-pole



[www.wago.com/733-372/105-604](http://www.wago.com/733-372/105-604)



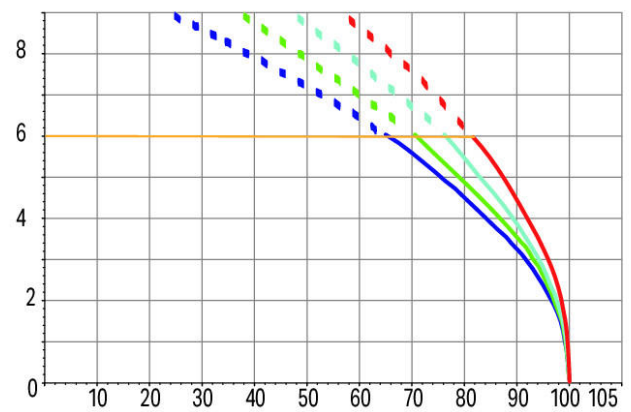
RoHS  
Compliant ✓

BOMcheck.net

Color: ■

**Derating-Kurve**  
1-Leiter-Federleiste (733-102) mit  
THR-Stiftleiste (733-332/105-604)  
Rastermaß 2,5 mm / Leiterquerschnitt 0,5 mm<sup>2</sup> „f“  
In Anlehnung an: EN 60512-5-2 / Reduktionsfaktor 0,8

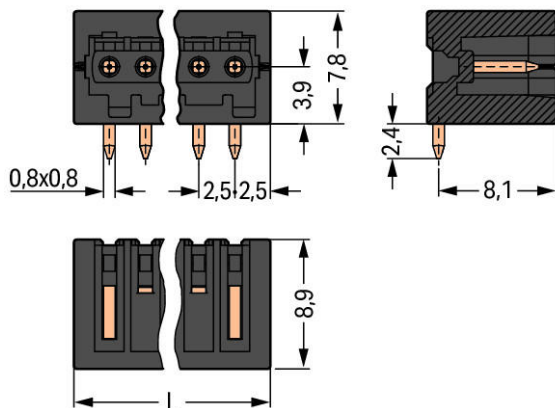
Strom in A



Umgebungstemperatur in °C

2-, 4-, 6-, 12- polig

— Leiterbemessungsstrom



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

## 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

Other variants can be requested via the WAGO sales department or, if necessary, configured at <https://configurator.wago.com/>: Gold-plated or partially gold-plated contact surfaces, Other pole numbers, Other solder pin lengths

## Data

### Electrical data

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

|                                 |  |
|---------------------------------|--|
| Rated voltage (III / 3)         | 80 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                   | 6 A  |
| Legend (ratings)                | (III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2 |

### Connection data

|                            |    |
|----------------------------|----|
| No. of poles               | 12 |
| Total number of potentials | 12 |
| Number of levels           | 1  |

### Geometrical Data

|                                    |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 2.5 mm (0.098 inch)      |
| Width                              | 32.5 mm / 1.28 inch      |
| Height                             | 10.2 mm / 0.402 inch     |
| Height from the surface            | 7.8 mm / 0.307 inch      |
| Depth                              | 8.9 mm / 0.35 inch       |
| 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 |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for PCBs            |
| Mismatching 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

|                             |                           |
|-----------------------------|---------------------------|
| Color                       | black                     |
| Material group              | I                         |
| Insulating material         | Polyphthalamide (PPA GF)  |
| Flammability class per UL94 | V0                        |
| Contact material            | Electrolytic copper (Ecu) |
| Contact plating             | tin-plated                |
| Fire load                   | 0.033 MJ                  |
| Weight                      | 2.05 g                    |

### Environmental Requirements



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

### Commercial data

|                    |                        |
|--------------------|------------------------|
| Country of origin  | DE                     |
| GTIN               | 4045454676285          |
| Customs Tariff No. | 85366990990            |
| Product Group      | 3 (Multi Conn. System) |



### Approvals / Certificates

#### Country specific Approvals



| Logo   | Approval                        | Certificate name |
|--|---------------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | 2169534.01       |
|  | CCA<br>DEKRA Certification B.V. | NL-31141         |
|  | CSA<br>DEKRA Certification B.V. | 1465035          |
|  | CSA<br>DEKRA Certification B.V. | 1465035          |



Ship Approvals

| Logo   | Approval  | Certificate name |
|--|---|------------------|
|  | <b>ABS</b><br>American Bureau of Shipping               | 14-HG1241537-PDA |
|  | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | TAE000016Z       |

UL-Approvals

| Logo   | Approval                                    | Certificate name |
|--|---|------------------|
|    | <b>UL</b><br>UL International Germany GmbH  | E45171           |
|  | <b>UL</b><br>Underwriters Laboratories Inc. | E45172           |

Compatible products

| Coding   |   |  |
|--|---|--|
|  | Item no.: 733-331<br>Coding key; snap-on type | <a href="http://www.wago.com/733-331">www.wago.com/733-331</a> |

Downloads

smartDATA

PCB libraries

|  |                      |               |          |
|--|----------------------|---------------|----------|
| TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System)<br>Compatible with TARGET PCB Design Software Version 17.x        | 1.1.0<br>Oct 6, 2014 | ZIP<br>7.4 MB | Download |
| EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)<br>Compatible with EAGLE PCB Design Software Version 6.x or higher | 2.1<br>Nov 17, 2017  | ZIP<br>6.2 MB | Download |
| DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)<br>Compatible with DesignSpark PCB Version 4.x or higher     | 2.1<br>Oct 6, 2014   | ZIP<br>6.1 MB | Download |



CAD data

3D Download 733-372/105-604

URL

Download

---

Subject to changes.

---

WAGO Kontakttechnik GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.