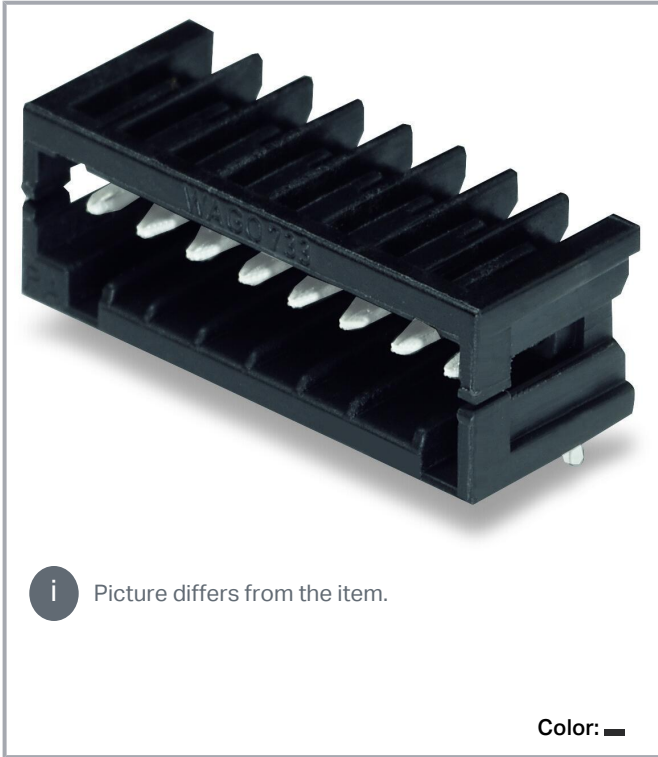


Data sheet | Item number: 733-363/105-604

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

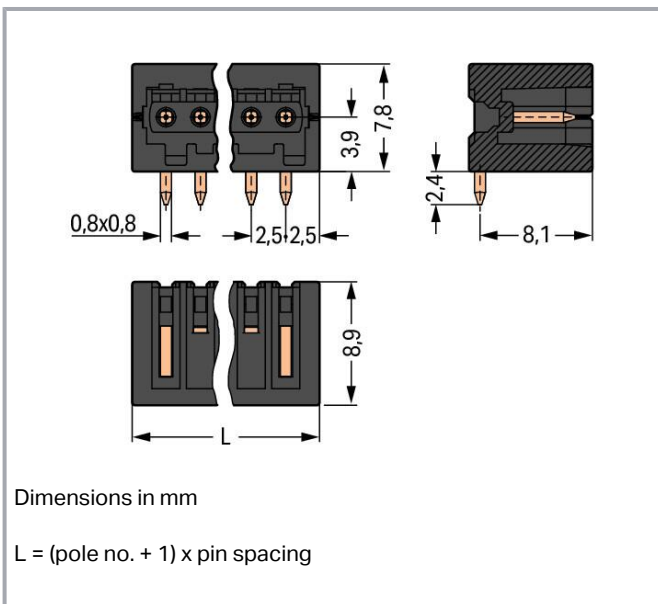
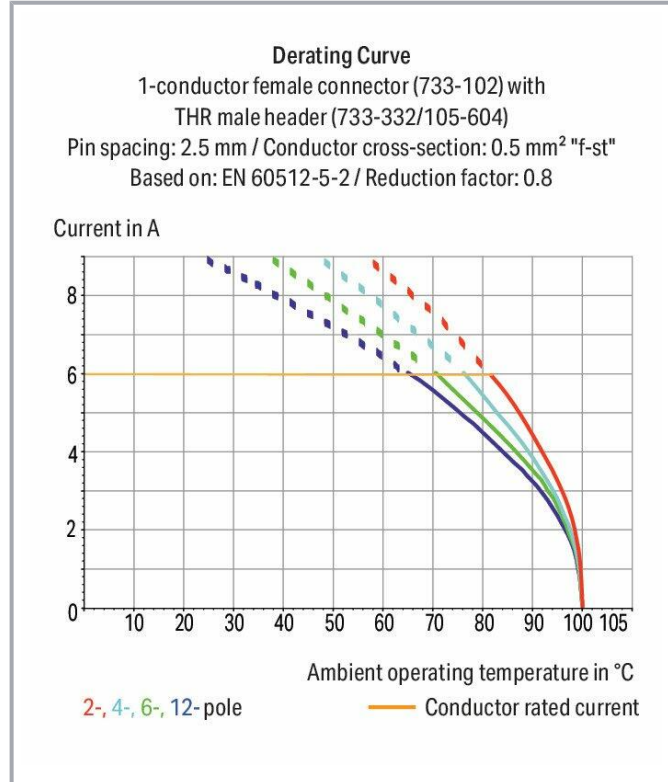


www.wago.com/733-363/105-604



i Picture differs from the item.

Color: ■



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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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 option available

Data

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
Other solder pin lengths
Gold-plated or partially gold-plated contact surfaces
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|-------------------------------|---|
| Nominal 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 |
| Nominal voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated current | 6 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

Ratings per UL 1059

| | |
|---------------|---------|
| Approvals per | UL 1059 |
|---------------|---------|

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| | |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 4 A |

Ratings per CSA

| | |
|---------------------------------|-------|
| Approvals per | CSA |
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 4 A |

Connection data

| | |
|----------------------------|---|
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels | 1 |

Connection 1

| | |
|-------------|---|
| Pole number | 3 |
|-------------|---|

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 ^(+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 |
| Plugging without loss of pin spacing | No |

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



| | |
|-----------------------------|----|
| 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)

Information on material specifications can be found here

| | |
|-----------------------------|--|
| Color | black |
| Material group | I |
| Insulation material | Polyphthalamide (PPA GF) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | Tin |
| Fire load | 0.012 MJ |
| Weight | 0.6 g |
| MSL gemäß 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 | 4045454676193 |
| Customs tariff number | 85366990990 |

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Environmental Product Compliance

RoHS Compliance Status



Compliant, No Exemption

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 61984 | 2169534.01 |
| | CCA DEKRA Certification B.V. | IEC 61984 | NL-31141 |
|  | CSA DEKRA Certification B.V. | C22.2 | 1465035 |
|  | UL UL International Germany GmbH | UL 1977 | E45171 |
|  | UR Underwriters Laboratories Inc. | UL 1059 | E45172 |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 19- HG1869876- PDA |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE000016Z |

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

Counterpart



Item no.733-103

1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 3-pole; 100% protected against mismatching; 0,50 mm²; light gray

www.wago.com/733-103

Optional accessories

Coding

Coding



Item no.: 733-331

Coding key; snap-on type; black

www.wago.com/733-331

Downloads

Documentation

Additional Information

| | | | |
|------------------------|------------|----------|----------|
| Technical Section | 2019 Apr 3 | pdf | Download |
| Technical explanations | | 2.0 MB | |
| THR Soldering Process | | pdf | Download |
| | | 548.2 kB | |

CAD/CAE-Data

CAD data

| | | |
|------------------------------|-----|----------|
| 2D/3D Models 733-363/105-604 | URL | Download |
|------------------------------|-----|----------|

CAE data

| | | |
|------------------------------|-----|----------|
| ZUKEN Portal 733-363/105-604 | URL | Download |
|------------------------------|-----|----------|

Environmental Product Compliance

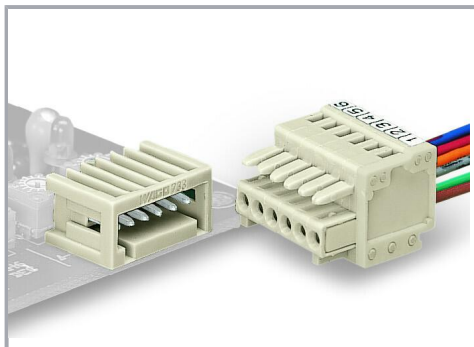
Compliance Search

| | | |
|---|-----|----------|
| Environmental Product Compliance 733-363/105-604 | URL | Download |
| THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 3-pole; black | | |

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

Installation Notes

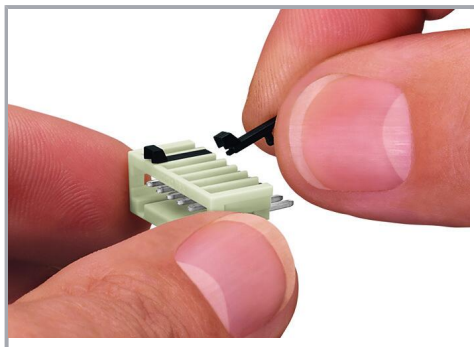
Mismatching protection



Male headers and female connectors are 100% protected against mismatching.

Only mating halves with the same pole number can be connected.

Coding



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

Product family

MCS MICRO

[Show all products from the family](#)

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