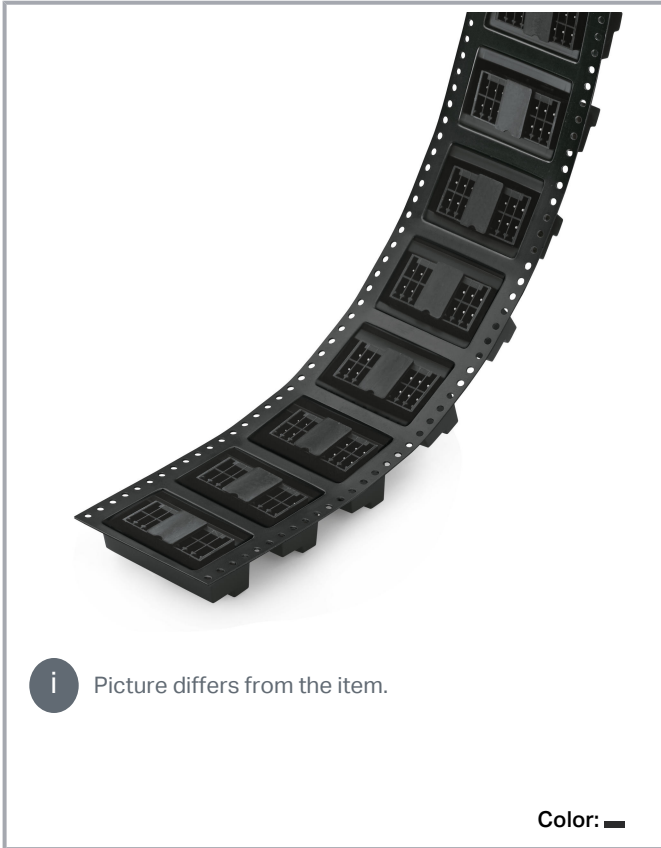


Data sheet | Item number: 713-1416/116-000/997-409

THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Levers; in tape-and-reel packaging; Pin spacing 3.5 mm; 32-pole; black

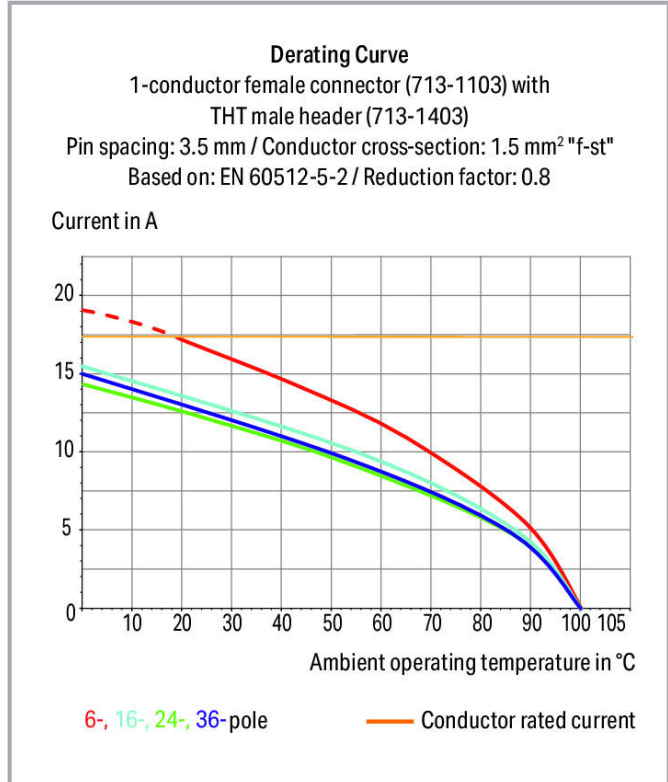


www.wago.com/713-1416_116-000_997-409



 Picture differs from the item.

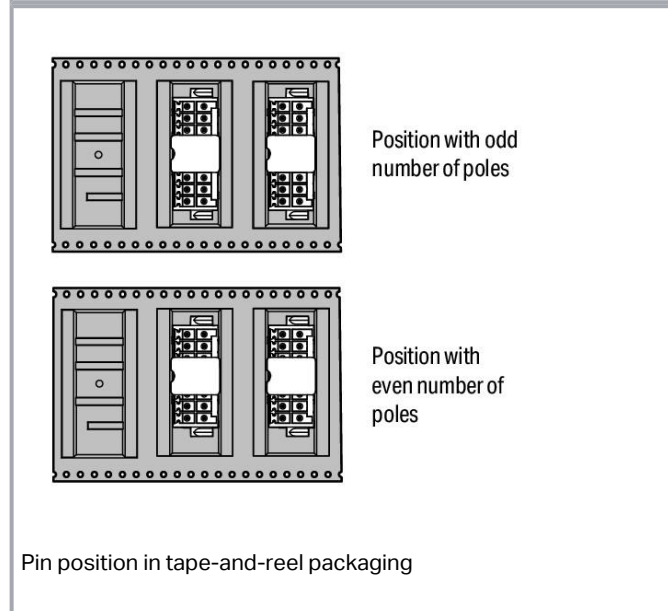
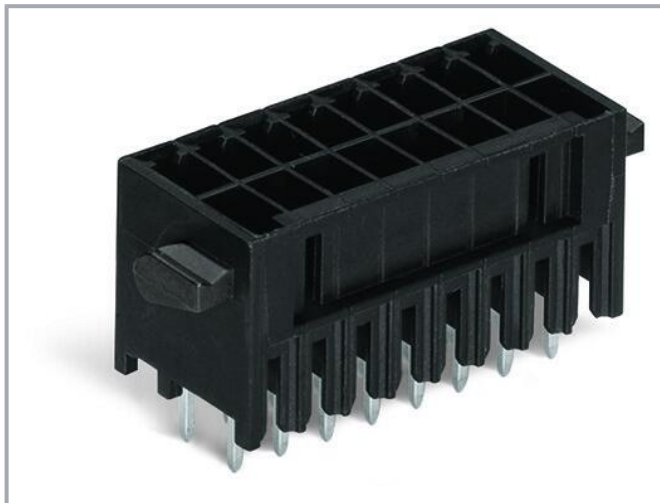
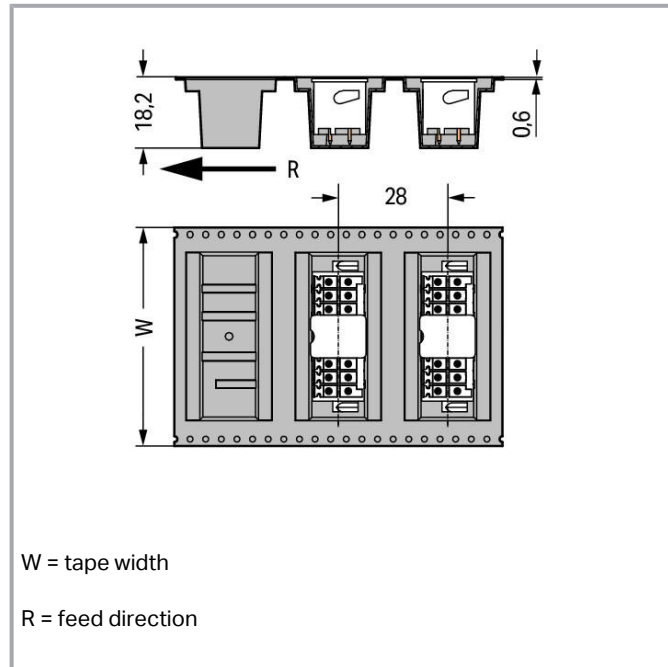
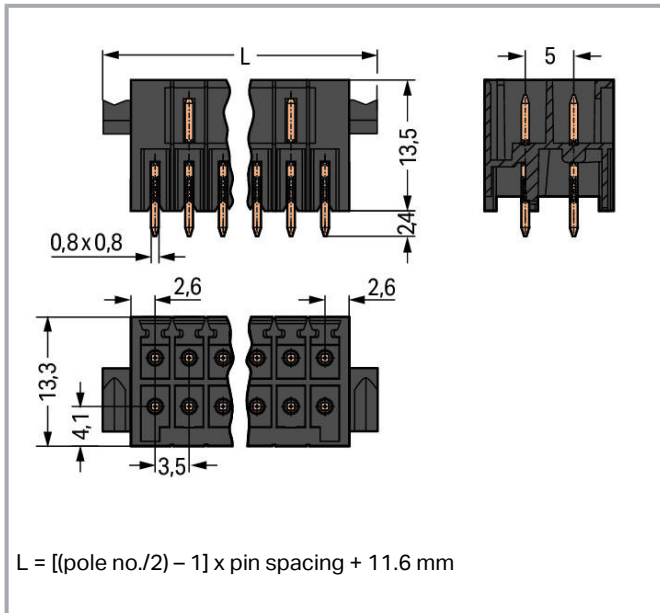
Color: 



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

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Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching

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



- Coding option available

Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

IEC Approvals

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|---|
| Rated voltage (III / 3) | 80 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Nominal voltage (II/2) | 250 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated current | 10 A |
| Legend (ratings) | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

UL Approvals

| Approvals per | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 10 A |
| Rated voltage UL (Use Group C) | 50 V |
| Rated current UL (Use Group C) | 10 A |

CSA Approvals

| Approvals per | CSA |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 12 A |

Connection data

| | |
|----------------------------|----|
| Pole No. | 32 |
| Total number of potentials | 32 |
| Number of connection types | 1 |

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

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| | |
|------------------|---|
| Number of levels | 2 |
|------------------|---|

Physical data

| | |
|--|--------------------------|
| Pin spacing | 3.5 mm / 0.138 inch |
| Width | 64.1 mm / 2.524 inch |
| Height | 15.9 mm / 0.626 inch |
| Height from the surface | 13.5 mm / 0.531 inch |
| Depth | 13.3 mm / 0.524 inch |
| Solder pin length | 2.4 mm |
| Solder pin dimensions | 0.8 x 0.8 mm |
| Plated through-hole diameter (THR) | 1.3 ^(+0.1) mm |
| Reel diameter of tape-and-reel packaging | 330 mm |
| Tape width | 88 mm |

Plug-in connection

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

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 |
| Insulation material | Polyphthalamide (PPA GF) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |
| Weight | 8.1 g |

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Environmental requirements


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

Commercial data

| | |
|-----------------------|---------------|
| Packaging type | bag |
| Country of origin | DE |
| GTIN | 4050821308980 |
| Customs tariff number | 8536694040 |

Approvals / Certificates

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|---------------------|
|  | UR Underwriters Laboratories Inc. | UL 1059 | E45172- 19950922 |

Counterpart



Item no.713-1116/037-000

1-conductor female connector, 2-row; 100% protected against mismatching; Levers; 1.5 mm²; Pin spacing 3.5 mm; 32-pole; 1,50 mm²; black

www.wago.com/713-1116/037-000

Optional accessories

Coding

| | | |
|--|---|--|
|  | Item no.: 714-101 Coding key; orange | www.wago.com/714-101 |
|--|---|--|

Downloads

Documentation

Additional Information

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

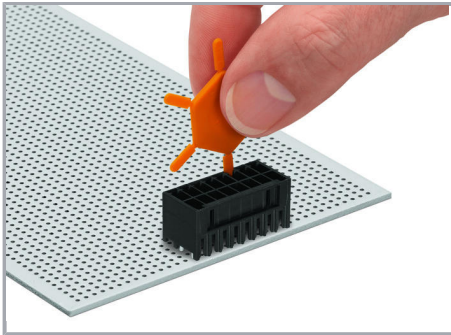
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Installation Notes

Coding



Coding a male header by inserting a coding pin.

Product family

MCS MINI HD

[Show all products from the family](#)

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