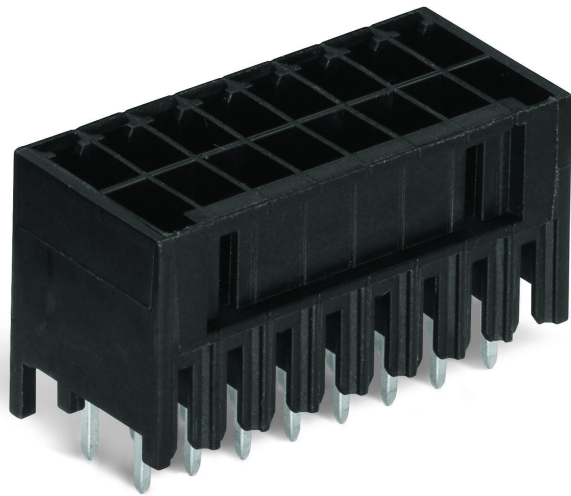


Data sheet | Item number: 713-1473

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 2 x 13-pole; black

www.wago.com/713-1473



RoHS
Compliant

BOMcheck.net

Color: ■

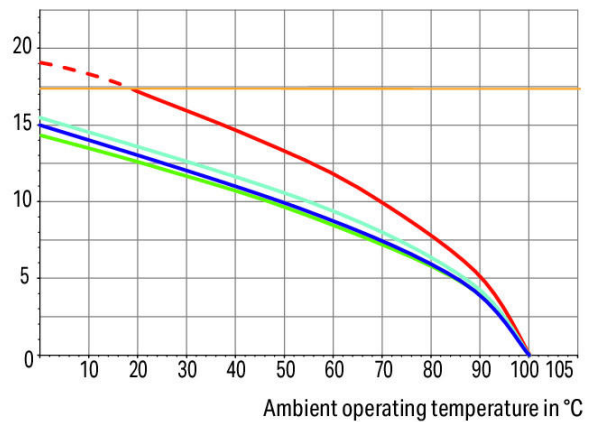
Derating Curve

1-conductor female connector (713-1103) with
THT male header (713-1403)

Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"

Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



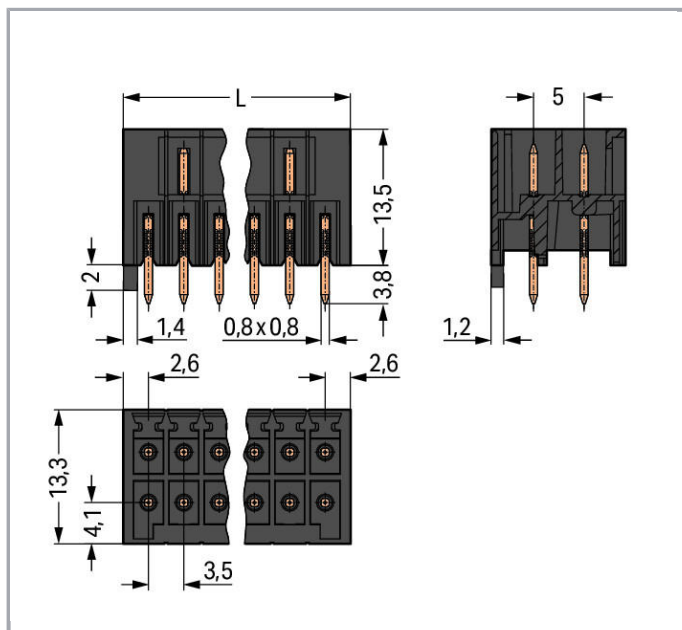
6-, 16-, 24-, 36-pole

Conductor rated current

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

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- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Header housing is molded of THT-compatible insulation material for lead-free reflow soldering
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- Coding pins available

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

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 |

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| | |
|--------------------------------|---|
| Rated voltage (II / 2) | 250 V |
| Rated impulse voltage (II / 2) | 2.5 kV |
| Rated current | 10 A |
| Legend (ratings) | (III / 2) \triangle Overvoltage category III / Pollution degree 2 |

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 |
| Approvals per | UL 1059 |

Approvals per CSA

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

Connection data

| | |
|----------------------------|----|
| No. of poles | 26 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels | 2 |

Geometrical Data

| | |
|-----------------------------------|--------------------------|
| Pin spacing | 3.5 mm / 0.138 inch |
| Width | 47 mm / 1.85 inch |
| Height | 17.3 mm / 0.681 inch |
| Height from the surface | 13.5 mm / 0.531 inch |
| Depth | 13.3 mm / 0.524 inch |
| Solder pin length | 3.8 mm |
| Solder pin dimensions | 0.8 x 0.8 mm |
| Drilled hole diameter (tolerance) | 1.2 ^(+0.1) mm |

Plug connection

| | |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type | for PCBs |
| Mismating protection | Yes |

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



| | |
|-----------------------------|-----|
| Mating direction to the PCB | 90° |
|-----------------------------|-----|

PCB contact

| | |
|-------------------------------------|---|
| PCB contact | THT |
| 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 (E_{Cu}) |
| Contact plating | tin-plated |
| Fire load | 0.137 MJ |
| Weight | 6.7 g |

Environmental Requirements


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

Commercial data

| | |
|--------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| Packaging type | BOX |
| Country of origin | PL |
| GTIN | 4045454696221 |
| Customs Tariff No. | 85366990990 |

Approvals / Certificates

Country specific Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
|  | CSA DEKRA Certification B.V. | C22.2 No. 158 | 2315087 |

UL-Approvals

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

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| Logo | Approval | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|------------------|
|  | UL Underwriters Laboratories Inc. | UL 1059 | 20190122-E45172 |

Counterpart



Item no. 713-1113

1-conductor female plug; 100% protected against mismatching; 1.5 mm²; Pin spacing 3.5 mm; 26-pole; 1,50 mm²; black

www.wago.com/713-1113

Compatible products

Coding

Item no.: 714-101
Coding key; orange

www.wago.com/714-101

Downloads

Documentation

Additional Information

| | | | |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf 3.6 MB | Download |
|------------------------|-------------|---------------|----------|

CAD/CAE-Data

CAD data

| | | |
|-----------------------|-----|----------|
| 2D/3D Models 713-1473 | URL | Download |
|-----------------------|-----|----------|

PCB Design

| | | |
|-------------------------------|-----|----------|
| Symbol and Footprint 713-1473 | URL | Download |
|-------------------------------|-----|----------|

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version

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

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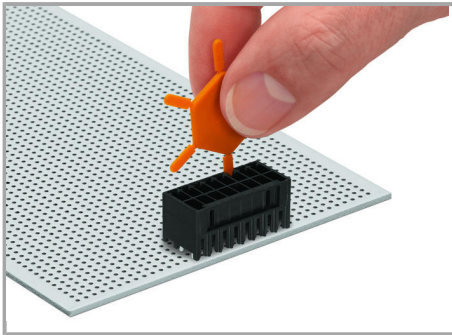
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- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Installation Notes

Coding



Coding a male header by inserting a coding pin.

Product family

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<i>MCS</i> MINI HD

Learn more about the product family.

Show all products from the family

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