

Data sheet | Item number: 721-464/001-040

THT male header; 1.2 x 1.2 mm solder pin; angled; 100% protected against mismatching; Preceding ground contact; Pin spacing 5 mm; 4-pole



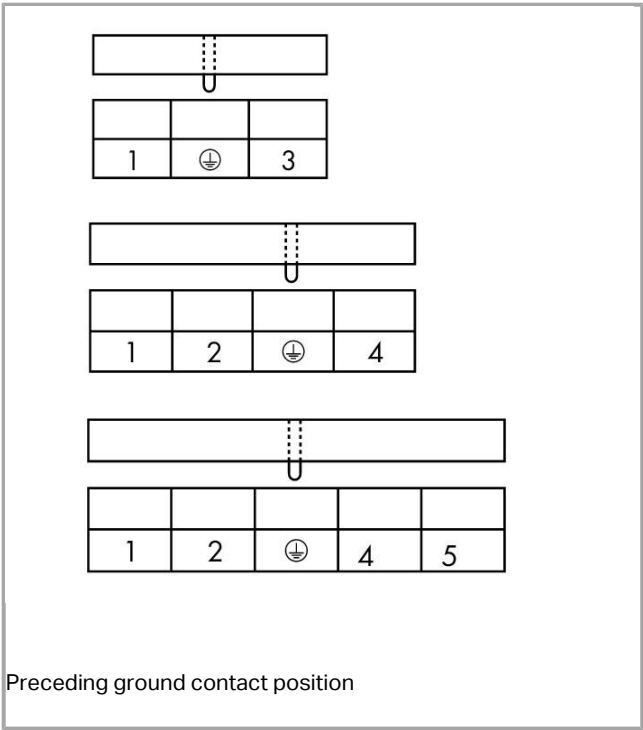
721-464/001-040

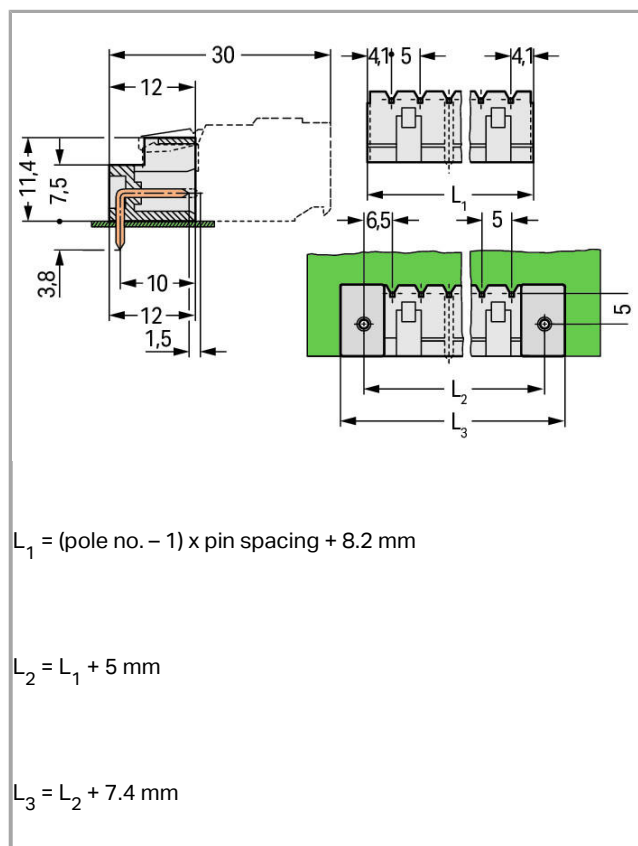
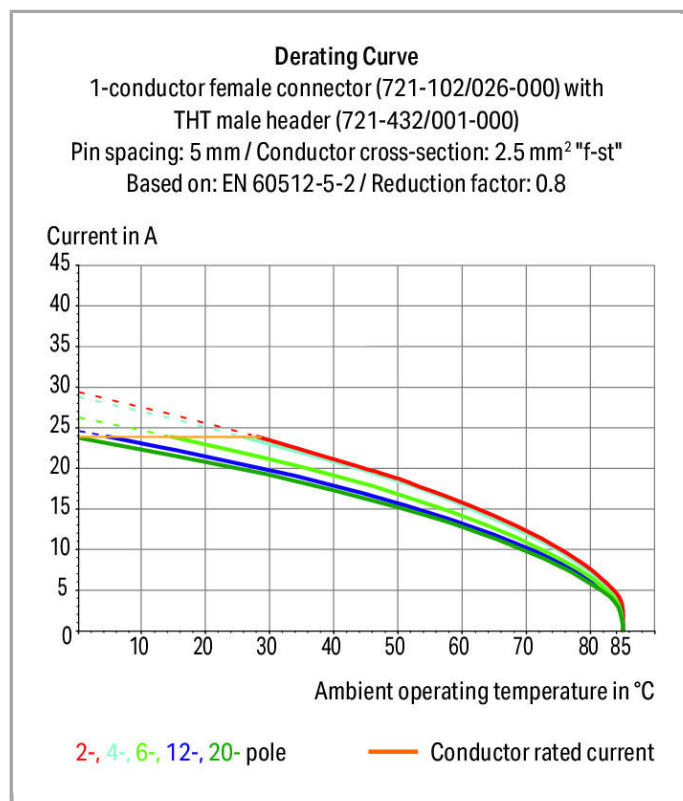


RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:





## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- 100 % protected against mismatching
- With coding fingers

## Safety information 1:

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.

## Data

### Electrical data

### Ratings per IEC/EN 60664-1

|                                 |       |
|---------------------------------|-------|
| Rated voltage (III / 3)         | 250 V |
| Rated impulse voltage (III / 3) | 4 kV  |
| Rated voltage (III / 2)         | 320 V |
| Rated impulse voltage (III / 2) | 4 kV  |

|                                |       |
|--------------------------------|-------|
| Rated voltage (II / 2)         | 630 V |
| Rated impulse voltage (II / 2) | 4 kV  |
| Rated current                  | 16 A  |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 15 A  |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A  |

#### Approvals per UL 1977

|                                                 |       |
|-------------------------------------------------|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 15 A  |

#### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

#### Connection data

|                            |                            |
|----------------------------|----------------------------|
| No. of poles               | 4                          |
| Total number of potentials | 4                          |
| Number of connection types | 1                          |
| Number of levels           | 1                          |
| Ground function            | with preceding GND contact |

#### Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 5 mm / 0.197 inch              |
| Width                             | 23.2 mm / 0.913 inch           |
| Height                            | 15.2 mm / 0.598 inch           |
| Height from the surface           | 11.4 mm / 0.449 inch           |
| Depth                             | 12 mm / 0.472 inch             |
| Solder pin length                 | 3.8 mm                         |
| Solder pin dimensions             | 1.2 x 1.2 mm                   |
| Drilled hole diameter (tolerance) | 1.7 <sup>(- ... +0.1)</sup> mm |

#### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
|------------------------------------|---------------------|

|                             |          |
|-----------------------------|----------|
| Connector connection type   | for PCBs |
| Mismating protection        | Yes      |
| Mating direction to the PCB | 0°       |

## 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                       | light gray                             |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.029 MJ                               |
| Weight                      | 1.77 g                                 |

## Environmental Requirements

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

## Commercial data

|                    |                        |
|--------------------|------------------------|
| Product Group      | 3 (Multi Conn. System) |
| Country of origin  | DE                     |
| GTIN               | 4044918945608          |
| Customs Tariff No. | 85366990990            |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                    | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-39756         |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 2190761.01       |

### Ship Approvals

Certificate

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

#### UL-Approvals

| Logo                                                                             | Approval                                   | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|
|  | <b>UR</b><br>UL International Germany GmbH | UL 1977                  | E45171           |
|  | <b>UR</b><br>UL International Germany GmbH | UL 1977                  | E45171           |

#### Compatible products

##### Marking accessories

|                                                                                    |                                                                                      |         |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 210-833</b><br>Marking strips; on reel; 6 mm wide; plain; Self-adhesive | 210-833 |
|  | <b>Item no.: 210-834</b><br>Marking strips; on reel; 5 mm wide; plain; Self-adhesive | 210-834 |

##### Coding

|                                                                                    |                                                      |         |
|------------------------------------------------------------------------------------|------------------------------------------------------|---------|
|  | <b>Item no.: 231-129</b><br>Coding key; snap-on type | 231-129 |
|------------------------------------------------------------------------------------|------------------------------------------------------|---------|

##### Female plug

|                                                                                    |                                                                                                                                                                              |                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|  | <b>Item no.: 2721-104/026-000</b><br>1-conductor female plug; 100% protected against mismatching; push-button; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole                | 2721-104<br>/026-000 |
|  | <b>Item no.: 2721-104/037-000</b><br>1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole | 2721-104<br>/037-000 |
|  | <b>Item no.: 721-104/026-000</b><br>1-conductor female plug; 100% protected against mismatching; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole                              | 721-104<br>/026-000  |

|                                                                                    |                                                                                                                                                                              |         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|    | <b>Item no.: 721-104/037-000</b><br>1-conductor female plug; 100% protected against mismating; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole                 | 721-104 |
|    | <b>Item no.: 721-304/008-000</b><br>1-conductor female plug; angled; 100% protected against mismating; Snap-in mounting feet; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole | 721-304 |
|    | <b>Item no.: 721-304/031-000</b><br>1-conductor female plug; angled; 100% protected against mismating; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole       | 721-304 |
|    | <b>Item no.: 722-134</b><br>THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 5 mm; 4-pole                                 | 722-134 |
|    | <b>Item no.: 722-134/031-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; clamping collar; Pin spacing 5 mm; 4-pole        | 722-134 |
|    | <b>Item no.: 722-134/039-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 4-pole            | 722-134 |
|    | <b>Item no.: 722-134/047-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 4-pole          | 722-134 |
|  | <b>Item no.: 722-204/026-000</b><br>1-conductor female plug; angled; 100% protected against mismating; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 4-pole                        | 722-204 |
|  | <b>Item no.: 722-234</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 5 mm; 4-pole                                   | 722-234 |
|  | <b>Item no.: 722-234/039-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 4-pole            | 722-234 |
|  | <b>Item no.: 722-234/047-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 4-pole            | 722-234 |

## Downloads

## CAD/CAE - Smart Data

## PCB libraries

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



|                                                         |             |        |
|---------------------------------------------------------|-------------|--------|
| Compatible with TARGET PCB Design Software Version 17.x | Oct 6, 2014 | 7.4 MB |
|---------------------------------------------------------|-------------|--------|

---

CAD data

|                             |     |          |
|-----------------------------|-----|----------|
| 3D Download 721-464/001-040 | URL | Download |
|-----------------------------|-----|----------|

---

Subject to changes.

---