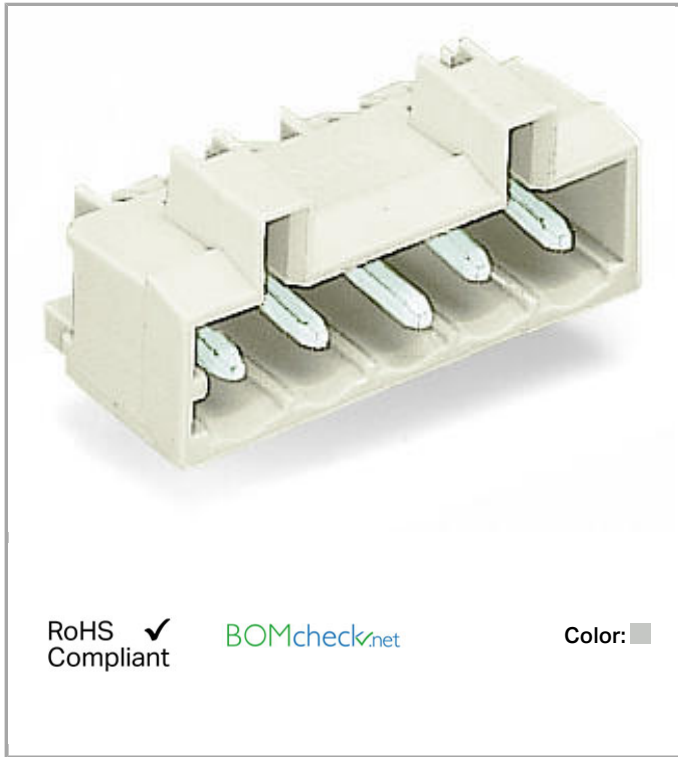


## Data sheet | Item number: 721-465/001-000

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



721-465/001-000



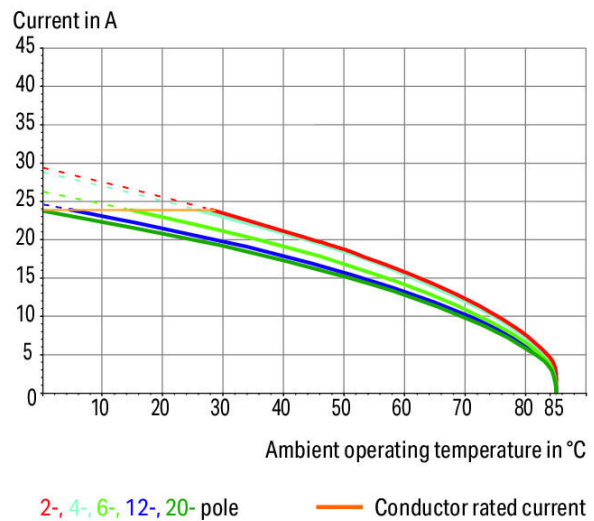
RoHS Compliant

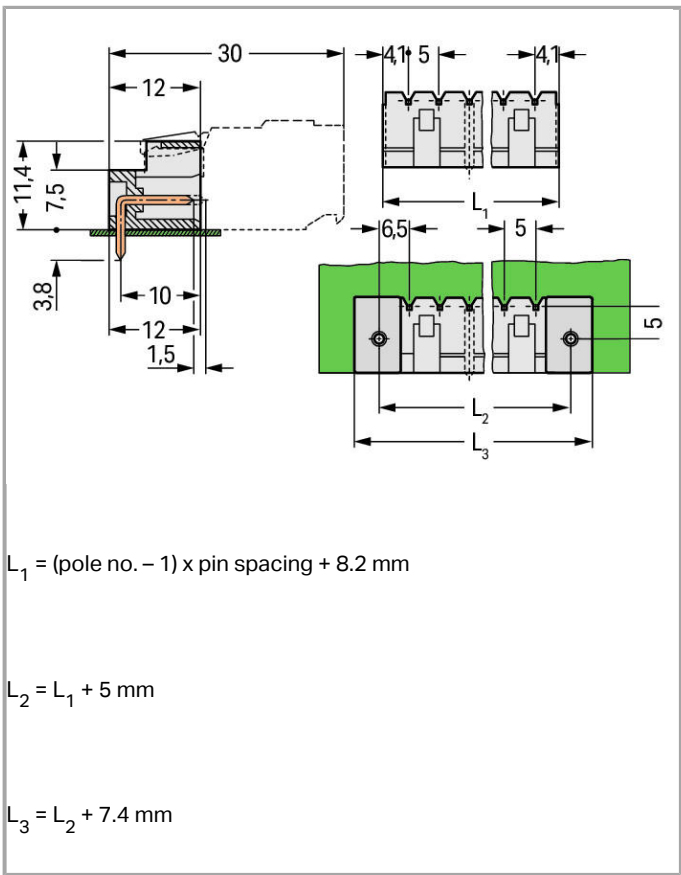
[BOMcheck.net](https://www.bomcheck.net)

Color:

### Derating Curve

1-conductor female connector (721-102/026-000) with  
THT male header (721-432/001-000)  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8





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 horter headers
- 100 % protected against mismating
- 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               | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

#### Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 5 mm / 0.197 inch              |
| Width                             | 28.2 mm / 1.11 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                   | 0.034 MJ                               |
| Weight                      | 2.13 g                                 |

## Environmental Requirements

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

## Commercial data

|                    |                        |
|--------------------|------------------------|
| Product Group      | 3 (Multi Conn. System) |
| Country of origin  | DE                     |
| GTIN               | 4044918933209          |
| 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

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|



**ABS**  
American Bureau of Shipping

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14-  
HG1241537-  
PDA



**DNV GL**  
Det Norske Veritas, Germanischer Lloyd

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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

### Female plug

|                                                                                    |                                                                                                                                                                              |          |          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
|  | <b>Item no.: 2721-105/026-000</b><br>1-conductor female plug; 100% protected against mismating; push-button; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 5-pole                  | /026-000 | 2721-105 |
|  | <b>Item no.: 2721-105/037-000</b><br>1-conductor female plug; 100% protected against mismating; push-button; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 5-pole   | /037-000 | 2721-105 |
|  | <b>Item no.: 721-105/026-000</b><br>1-conductor female plug; 100% protected against mismating; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 5-pole                                | /026-000 | 721-105  |
|  | <b>Item no.: 721-105/037-000</b><br>1-conductor female plug; 100% protected against mismating; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 5-pole                 | /037-000 | 721-105  |
|  | <b>Item no.: 721-305/008-000</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; 5-pole | /008-000 | 721-305  |
|  | <b>Item no.: 721-305/031-000</b><br>1-conductor female plug; angled; 100% protected against mismating; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 5-pole       | /031-000 | 721-305  |

|                                                                                    |                                                                                                                                                                         |                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    | <b>Item no.: 722-135/031-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; clamping collar; Pin spacing 5 mm; 5-pole | 722-135<br>/031-000 |
|    | <b>Item no.: 722-135/039-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Locking lever; Pin spacing 5 mm; 5-pole   | 722-135<br>/039-000 |
|    | <b>Item no.: 722-135/047-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Spacer flange; Pin spacing 5 mm; 5-pole   | 722-135<br>/047-000 |
|    | <b>Item no.: 722-205/026-000</b><br>1-conductor female plug; angled; 100% protected against mismatching; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 5-pole                 | 722-205<br>/026-000 |
|    | <b>Item no.: 722-235</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 5-pole                            | 722-235             |
|    | <b>Item no.: 722-235/039-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Locking lever; Pin spacing 5 mm; 5-pole     | 722-235<br>/039-000 |
|    | <b>Item no.: 722-235/047-000</b><br>THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Spacer flange; Pin spacing 5 mm; 5-pole     | 722-235<br>/047-000 |
| <b>Marking accessories</b>                                                         |                                                                                                                                                                         |                     |
|  | <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             |
| <b>Coding</b>                                                                      |                                                                                                                                                                         |                     |
|  | <b>Item no.: 231-129</b><br>Coding key; snap-on type                                                                                                                    | 231-129             |

## Downloads

## CAD/CAE - Smart Data

## PCB libraries

|                                                                                                                                              |                      |               |          |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|----------|
| 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 |
| 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>Oct 6, 2014   | zip<br>6.2 MB | Download |
| 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 |

## CAD data



3D Download 721-465/001-000

URL                      Download

Subject to changes.