

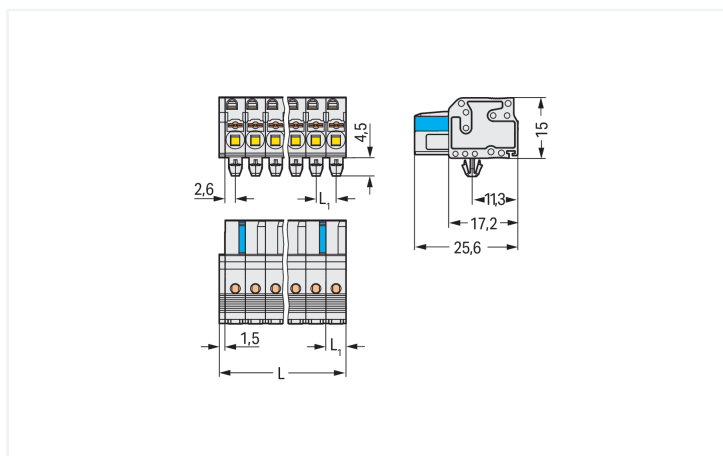
## Data Sheet | Item Number: 2721-104/008-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; Snap-in mounting feet; 2,50 mm<sup>2</sup>; light gray

<https://www.wago.com/2721-104/008-000>



Color: ■ light gray



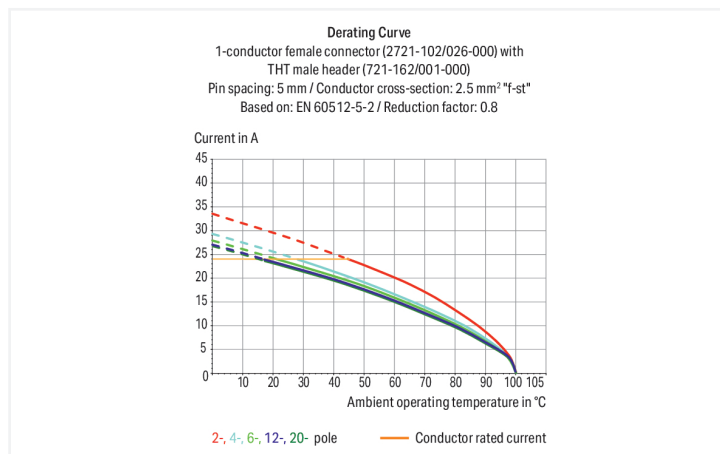
Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$  L1 = 5 mm 2-pole female connectors – one latch only

Female connector, 2721 Series, light gray

This female connector (item number 2721-104/008-000) provides hassle-free electrical installations. Strip lengths must be between 10 and 11 mm when connecting conductors to this female connector. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Dimensions: (21.5 x 19.5 x 25.6) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.

Tin is used for coating the contact surfaces.





| Notes              |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | The MCS – <i>MULTI CONNECTION SYSTEM</i> 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<br>Gold-plated or partially gold-plated contact surfaces<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                                    |

| Electrical data                 |  |                |       |
|---------------------------------|--|----------------|-------|
| Ratings per                     |  | IEC/EN 60664-1 |       |
| Overvoltage category            |  | III            | III   |
| Pollution degree                |  | 3              | 2     |
| Nominal voltage                 |  | 320 V          | 630 V |
| Rated impulse withstand voltage |  | 4 kV           | 4 kV  |
| Rated current                   |  | 16 A           | 16 A  |
| Approvals per                   |  | UL 1059        |       |
| Use group                       |  | B              | C     |
| Rated voltage                   |  | 300 V          | 150 V |
| Rated current                   |  | 15 A           | 10 A  |
| Approvals per                   |  | UL 1977        |       |
| Rated voltage                   |  | 600 V          |       |
| Rated current                   |  | 15 A           |       |
| Approvals per                   |  | CSA            |       |
| Use group                       |  | B              | C     |
| Rated voltage                   |  | 300 V          | 300 V |
| Rated current                   |  | 15 A           | 10 A  |

| Connection Data                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| Clamping units                                    | 4                                     |
| Total number of potentials                        | 4                                     |
| Number of connection types                        | 1                                     |
| Number of levels                                  | 1                                     |
| Connection 1                                      |                                       |
| Connection technology                             | Push-in CAGE CLAMP®                   |
| Actuation type                                    | Push-button                           |
| Actuation direction 1                             | Operation parallel to conductor entry |
| Solid conductor                                   | 0.2 ... 2.5 mm² / 24 ... 12 AWG       |
| Fine-stranded conductor                           | 0.2 ... 2.5 mm² / 24 ... 12 AWG       |
| Fine-stranded conductor; with insulated ferule    | 0.25 ... 1.5 mm²                      |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                      |
| Strip length                                      | 10 ... 11 mm / 0.39 ... 0.43 inches   |
| Pole number                                       | 4                                     |
| Conductor entry direction to mating direction     | 0°                                    |

| Physical data                                                  |                        |
|----------------------------------------------------------------|------------------------|
| Pin spacing                                                    | 5 mm / 0.197 inches    |
| Width                                                          | 21.5 mm / 0.846 inches |
| Height                                                         | 19.5 mm / 0.768 inches |
| Height from the surface                                        | 15 mm / 0.591 inches   |
| Depth                                                          | 25.6 mm / 1.008 inches |
| Drilled hole diameter for snap-in mounting foot with tolerance | 3.5 (+0.1) mm          |



| Mechanical data          |                                         |
|--------------------------|-----------------------------------------|
| Variable coding          | Yes                                     |
| Housing sheet thickness  | 0.6 ... 1.2 mm / 0.024 ... 0.047 inches |
| Mounting type            | Snap-in foot                            |
| Mounting type            | Panel mounting                          |
| Anti-rotation protection | Yes                                     |

| Plug-in connection                 |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type)        | for conductor           |
| Mismating protection               | Yes                     |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | light gray                                                               |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   | Copper alloy                                                             |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.117 MJ                                                                 |
| Weight                             | 6.6 g                                                                    |

| Environmental requirements |                 |
|----------------------------|-----------------|
| Limit temperature range    | -60 ... +100 °C |
| Processing temperature     | -35 ... +60 °C  |

| Commercial data       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 100 pcs                |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4045454722395          |
| Customs tariff number | 85366990990            |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-44-03-09          |
| eCl@ss 9.0             | 27-44-03-09          |
| ETIM 9.0               | EC002638             |
| ETIM 10.0              | EC002638             |
| ECCN                   | NO US CLASSIFICATION |



| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

Approvals / Certificates

General approvals



| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CB<br>DEKRA Certification B.V.        | IEC 61984     | NL-113351        |
| CSA<br>CSA Group                      | C22.2 No. 158 | 2314554          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984      | 71-130478 REV.1  |
| UL<br>Underwriters Laboratories Inc.  | UL 1059       | E45172           |
| UL<br>Underwriters Laboratories Inc.  | UL 1977       | E45171           |

Downloads

Environmental Product Compliance

| Compliance Search                                    |
|------------------------------------------------------|
| Environmental Product Compliance<br>2721-104/008-000 |



Documentation

| Additional Information |
|------------------------|
| Technical Section      |
| 03.04.2019             |
| pdf<br>2027.26 KB      |



CAD/CAE-Data

| CAD data                         |
|----------------------------------|
| 2D/3D Models<br>2721-104/008-000 |



| CAE data                         |
|----------------------------------|
| ZUKEN Portal<br>2721-104/008-000 |





1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



**Item No.: 721-604**  
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; 2,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



**Item No.: 216-241**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



**Item No.: 216-141**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-242**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-142**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-243**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-143**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-244**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



**Item No.: 216-144**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored



**Item No.: 216-106**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.2.2 Installation

1.2.2.1 Mounting accessories



**Item No.: 209-137**  
Mounting adapter; can be used as end stop; 6.5 mm wide; gray

1.2.3 Insulation stop

1.2.3.1 Insulation stop



**Item No.: 231-671**  
Insulation stop; 0.25 - 0.5 mm²; light gray



**Item No.: 231-672**  
Insulation stop; 0.75 - 1 mm²; dark gray

1.2.4 Marking

1.2.4.1 Marking strip



**Item No.: 210-332/500-202**  
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-205**  
Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-204**  
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-206**  
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.5 Mounting adapter

1.2.5.1 Mounting accessories



**Item No.: 209-148**  
Multi mounting adapter; for female and male connectors; 25 mm wide; 3 parts; gray

1.2.6 Strain relief

1.2.6.1 Strain relief plate



**Item No.: 734-128**  
Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; Pin spacing 3.5 mm; light gray

1.2.7 Test and measurement

1.2.7.1 Testing accessories



**Item No.: 210-136**  
Test plug; 2 mm Ø; with 500 mm cable; red



**Item No.: 231-661**  
Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm<sup>2</sup>; light gray

1.2.8 Tool

1.2.8.1 Operating tool



**Item No.: 231-231**  
Combination operating tool; red



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



**Item No.: 210-657**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multi-coloured



**Item No.: 210-250**  
Operating tool; for MCS MINI and MIDI with CAGE CLAMP® connection; red



**Item No.: 231-291**  
Operating tool; made of insulating material; 1-way; loose; red



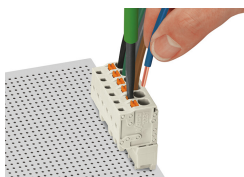
**Item No.: 231-131**  
Operating tool; made of insulating material; 1-way; loose; white



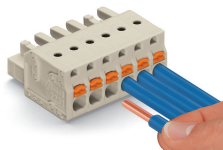
**Item No.: 231-159**  
Operating tool; natural

## Installation Notes

### Conductor termination

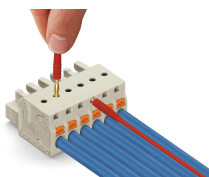


Inserting/removing a conductor via 3.5 mm screwdriver – Push-in CAGE CLAMP® actuation in mated condition.



Push-in termination of solid conductors or fine-stranded conductors with ferrule

## Testing



Testing parallel to conductor entry via integrated test ports – female connector with push-buttons and Push-in CAGE CLAMP® connection – touch contact perpendicular to conductor entry.

## Marking



Labeling via direct marking or self-adhesive strips.

## Coding

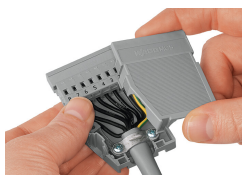


Coding a female connector by removing coding finger(s).

## Installation



Male connector with strain relief plate



Strain relief housing shown with a male connector equipped with CAGE CLAMP®