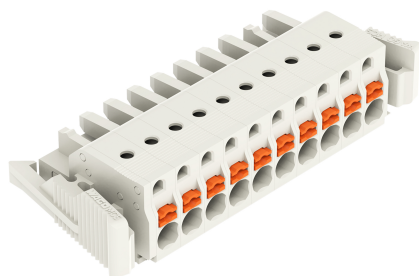


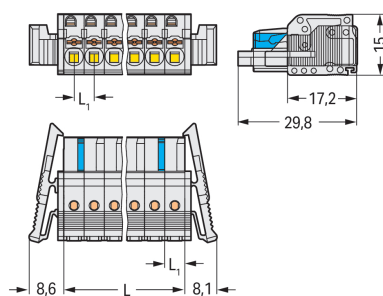
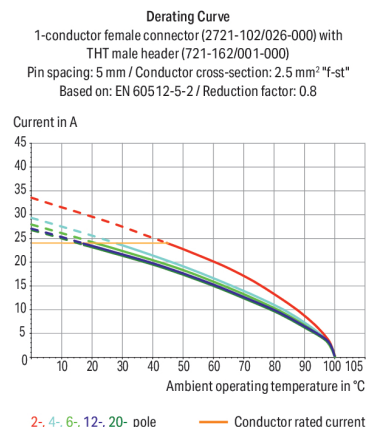
## Data Sheet | Item Number: 2721-110/037-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 10-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm<sup>2</sup>; light gray

<https://www.wago.com/2721-110/037-000>



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, push-button

Easy electrical installations are guaranteed with this female connector (item number 2721-110/037-000). Conductors can only be connected to this female connector if their strip length is between 10 and 11 mm. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. The dimensions are (66.7 x 15 x 29.8) 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>.

The contact surface is coated with tin.



| 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            | II    |
| Pollution degree                | 3     | 2              | 2     |
| Nominal voltage                 | 320 V | 320 V          | 630 V |
| Rated impulse withstand voltage | 4 kV  | 4 kV           | 4 kV  |
| Rated current                   | 16 A  | 16 A           | 16 A  |
| Approvals per                   |       | UL 1059        |       |
| Use group                       | B     | C              | D     |
| Rated voltage                   | 300 V | 150 V          | 300 V |
| Rated current                   | 15 A  | 15 A           | 10 A  |
| Approvals per                   |       | UL 1977        |       |
| Rated voltage                   | 600 V |                |       |
| Rated current                   | 15 A  |                |       |
| Approvals per                   |       | CSA            |       |
| Use group                       | B     | C              | D     |
| Rated voltage                   | 300 V | 300 V          | 300 V |
| Rated current                   | 15 A  | 15 A           | 10 A  |

| Connection Data                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| Clamping units                                    | 10                                    |
| Total number of potentials                        | 10                                    |
| 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 ferrule   | 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                                       | 10                                    |
| Conductor entry direction to mating direction     | 0°                                    |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 5 mm / 0.197 inches    |
| Width         | 66.7 mm / 2.626 inches |
| Height        | 15 mm / 0.591 inches   |
| Depth         | 29.8 mm / 1.173 inches |



| Mechanical data          |  |     |
|--------------------------|--|-----|
| Variable coding          |  | Yes |
| Anti-rotation protection |  | Yes |

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

| 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                          |  | 0.317 MJ                                                                 |
| Weight                             |  | 17.3 g                                                                   |

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

| Commercial data       |  |                        |
|-----------------------|--|------------------------|
| Product Group         |  | 3 (Multi Conn. System) |
| PU (SPU)              |  | 25 pcs                 |
| Packaging type        |  | Box                    |
| Country of origin     |  | PL                     |
| GTIN                  |  | 4045454794569          |
| 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 |

Downloads

Environmental Product Compliance

| Compliance Search                                    |                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------|
| Environmental Product Compliance<br>2721-110/037-000 |  |

Documentation

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

CAD/CAE-Data

| CAD data                         |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| 2D/3D Models<br>2721-110/037-000 |  |

| CAE data                         |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| ZUKEN Portal<br>2721-110/037-000 |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



|                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 721-610</b><br>1-conductor male connector; CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 10-pole; 100% protected against mismatching; 2,50 mm <sup>2</sup> ; light gray |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 721-440/001-000</b><br>THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 10-pole; light gray |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 721-140/001-000</b><br>THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 5 mm; 10-pole; light gray |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



|                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-243</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



1.2.1.1 Ferrule



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

1.2.2 Insulation stop

1.2.2.1 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

1.2.3 Marking

1.2.3.1 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

1.2.4 Strain relief

1.2.4.1 Strain relief plate



**Item No.: 734-126**  
Strain relief plate; for female and male con-  
nectors; 35 mm wide; 1 part; Pin spacing 3.5  
mm; light gray

1.2.5 Test and measurement

1.2.5.1 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 mm²; light  
gray

1.2.6 Tool

1.2.6.1 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



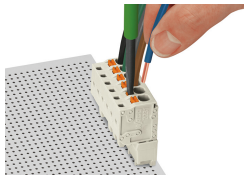
**Item No.: 231-131**  
Operating tool; made of insulating material; 1-way; loose; white



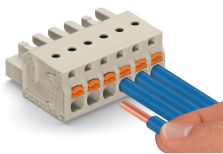
**Item No.: 231-159**  
Operating tool; natural

Installation Notes

Conductor termination

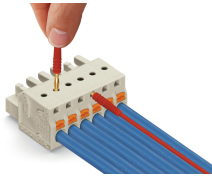


Inserting/removing a conductor via 3.5 mm screwdriver – Push-in CAGE CLAMP® actuation in mated condition.



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®