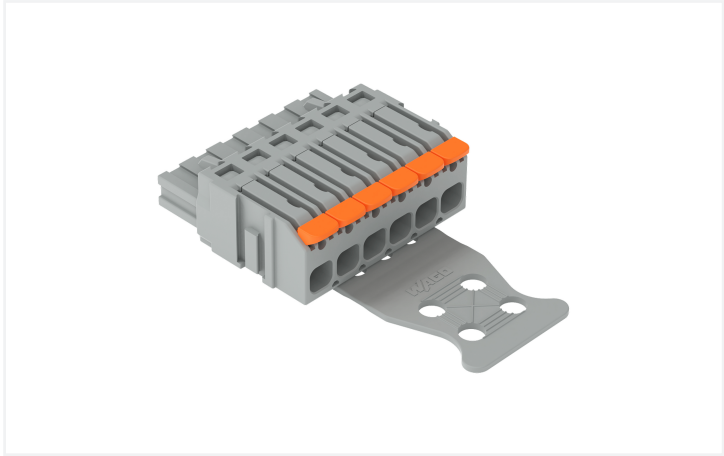
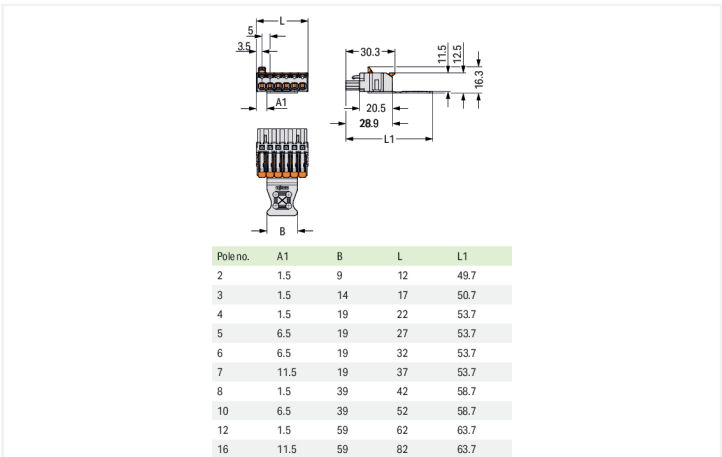
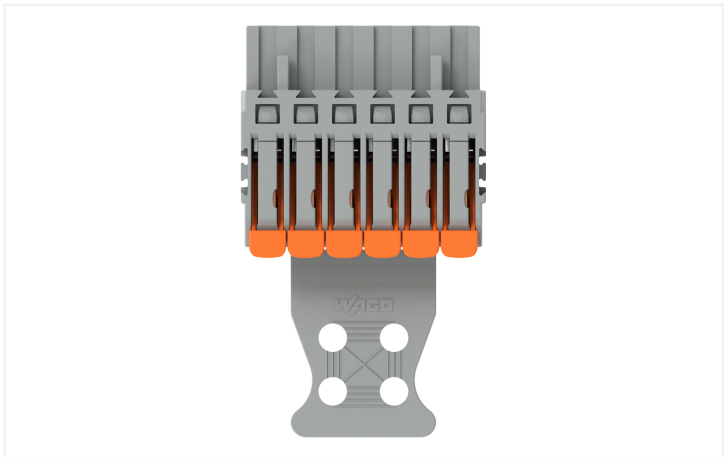




Color: ■ gray



Dimensions in mm

Female connector, 2231 Series, with 5 mm pin spacing

Error-free electrical installations are guaranteed with this female connector (item number 2231-1106/327-000/334-000). Strip lengths must be between 11 and 12 mm when connecting conductors to this female connector. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. The dimensions are (32 x 11.5 x 53.7) mm (width x height x depth). Depending on the type of conductor, this female connector is suitable for conductor cross sections ranging from 0.2 mm² to 2.5 mm².

Tin is used for coating the contact surfaces.

| Notes              |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | The MCS – MULTI CONNECTION SYSTEM 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>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                   |  | 20 A           | 15 A  | 10 A  |
| Approvals per                   |  | CSA            |       |       |
| Use group                       |  | B              | C     | D     |
| Rated voltage                   |  | 300 V          | 150 V | 300 V |
| Rated current                   |  | 20 A           | 15 A  | 10 A  |

| Connection Data                                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
|---------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|----------------|-------|-----------------|---------------------------------|-------------------------|---------------------------------|-------------------------------------------------|------------------|---------------------------------------------------|------------------|--------------|-------------------------------------|-------------|---|-----------------------------------------------|-----|
| Clamping units                                    | 6                                   | <div><div>Connection 1</div><table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Lever</td></tr><tr><td>Solid conductor</td><td>0.2 ... 2.5 mm² / 24 ... 12 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.2 ... 2.5 mm² / 24 ... 12 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.25 ... 1.5 mm²</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.25 ... 2.5 mm²</td></tr><tr><td>Strip length</td><td>11 ... 12 mm / 0.43 ... 0.47 inches</td></tr><tr><td>Pole number</td><td>6</td></tr><tr><td>Conductor entry direction to mating direction</td><td>0 °</td></tr></table></div> | Connection technology | Push-in CAGE CLAMP® | Actuation type | Lever | 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 | 11 ... 12 mm / 0.43 ... 0.47 inches | Pole number | 6 | Conductor entry direction to mating direction | 0 ° |
| Connection technology                             | Push-in CAGE CLAMP®                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| Actuation type                                    | Lever                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| 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                                      | 11 ... 12 mm / 0.43 ... 0.47 inches |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| Pole number                                       | 6                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| Conductor entry direction to mating direction     | 0 °                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| Total number of potentials                        | 6                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| Number of connection types                        | 1                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |
| Number of levels                                  | 1                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                     |                |       |                 |                                 |                         |                                 |                                                 |                  |                                                   |                  |              |                                     |             |   |                                               |     |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 5 mm / 0.197 inches    |
| Width         | 32 mm / 1.26 inches    |
| Height        | 11.5 mm / 0.453 inches |
| Depth         | 53.7 mm / 2.114 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               | No                      |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | 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                          | 0.165 MJ                                                                 |
| Actuator color                     | orange                                                                   |
| Weight of insulation material      | 3.81 g                                                                   |
| Weight                             | 10.7 g                                                                   |

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

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 50 pcs        |
| Packaging type        | Box           |
| Country of origin     | PL            |
| GTIN                  | 4066966637823 |
| Customs tariff number | 85366990990   |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| ETIM 10.0              | EC002638             |
| ECCN                   | NO US CLASSIFICATION |

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

Downloads

Environmental Product Compliance

Compliance Search

↓

Documentation

Additional Information

|                   |            |                   |   |
|-------------------|------------|-------------------|---|
| Technical Section | 03.04.2019 | pdf<br>2027.26 KB | ↓ |
|-------------------|------------|-------------------|---|

CAD/CAE-Data

CAD data

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>Item No.: 231-606</b><br/>1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; gray</div>                                                         |  <div><b>Item No.: 2231-1606</b><br/>1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; 2,50 mm²; gray</div>                           |  <div><b>Item No.: 2231-1606/000-044</b><br/>1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; direct marking; 2,50 mm²; gray</div> |  <div><b>Item No.: 2231-1606/000-9034</b><br/>1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; direct marking; 2,50 mm²; gray</div>    |
|  <div><b>Item No.: 2231-1606/334-000</b><br/>1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; Strain relief plate; 2,50 mm²; gray</div> |  <div><b>Item No.: 231-436/001-000/105-604/997-407</b><br/>THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black</div> |  <div><b>Item No.: 231-436/001-000/105-604</b><br/>THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 6-pole; black</div>                                   |  <div><b>Item No.: 231-136/001-000/105-604/997-407</b><br/>THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black</div> |
|  <div><b>Item No.: 231-136/001-000/105-604</b><br/>THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; black</div>                                      |  <div><b>Item No.: 231-466/001-000/105-604/997-407</b><br/>THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black</div> |  <div><b>Item No.: 231-466/001-000/105-604</b><br/>THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 6-pole; black</div>                                   |  <div><b>Item No.: 231-166/001-000/105-604/997-407</b><br/>THR male header; 1.2 x 1.2 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black</div> |
|  <div><b>Item No.: 231-166/001-000/105-604</b><br/>THR male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 6-pole; black</div>                                      |  <div><b>Item No.: 231-436/001-000</b><br/>THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 6-pole; gray</div>                                              |  <div><b>Item No.: 231-136/001-000</b><br/>THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray</div>                                          |  <div><b>Item No.: 231-466/001-000</b><br/>THT male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 6-pole; gray</div>                                                |
|  <div><b>Item No.: 231-166/001-000</b><br/>THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray</div>                                               |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                       |

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



**Item No.: 2231-505**  
Coding pin carrier; 5 coding keys; for female connectors; orange

1.2.2 Ferrule

1.2.2.1 Ferrule



**Item No.: 216-262**  
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



**Item No.: 216-263**  
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



**Item No.: 216-264**  
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

1.2.3 Locking system

1.2.3.1 Locking system



**Item No.: 2231-515**  
center locking; for female connectors; For Push-in CAGE CLAMP® connection; lever; Pin spacing 5 mm; 5-pole; orange



**Item No.: 2231-510**  
Locking lever; for female connectors; 1 part; For Push-in CAGE CLAMP® connection; lever; orange

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 Test and measurement

1.2.5.1 Testing accessories



**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



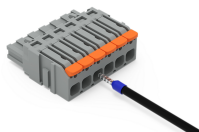
**Item No.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm<sup>2</sup>

## Installation Notes

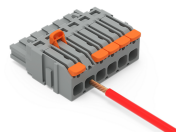
### Conductor termination



Inserting solid conductor via push-in termination.

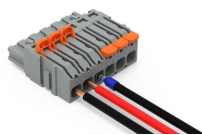


Ferruled fine-stranded conductors can be directly inserted.



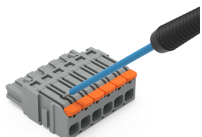
Insert fine-stranded conductors – and remove all conductors – via operating tool.

### Conductor removal

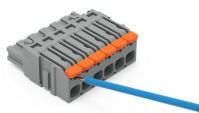


Removing a conductor via lever.

## Testing



Prüfen senkrecht zur Leiteranschlussrichtung (90°) Prüfstift 1 mm 735-500



Prüfen aus Leiteranschlussrichtung (0°) Prüfstift 1 mm 735-500

## Coding



Coding a 1-conductor female connector by inserting a coding pin.