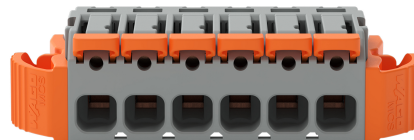
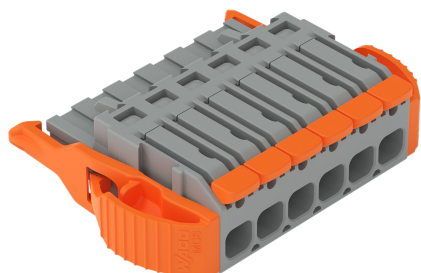


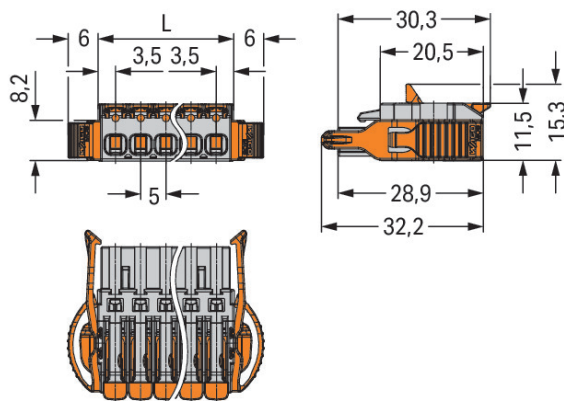
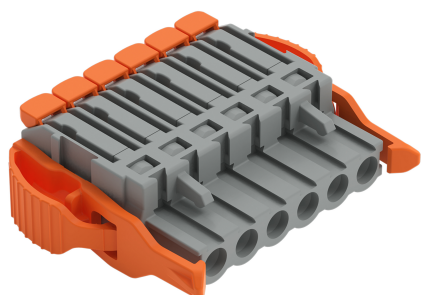
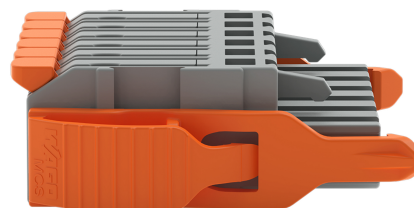
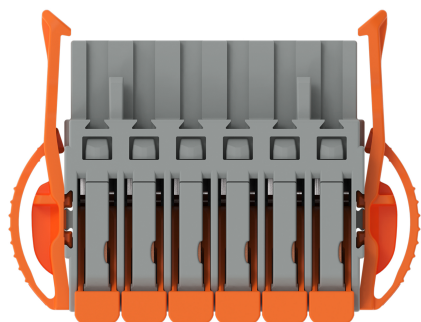
**Data Sheet | Item Number: 2231-1106/038-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 6-pole; Lateral locking levers; 2,50 mm<sup>2</sup>; gray

<https://www.wago.com/2231-1106/038-000>



Color: ■ gray



L = (pole no. x pin spacing) + 2 mm 2- and 3-pole female connectors – one latch only

Female connector, 2231 Series, Push-in CAGE CLAMP®

This female connector (item number 2231-1106/038-000) simplifies electrical installations. Ensure that the strip lengths are 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® 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 (44 x 11.5 x 33.6) 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 – 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 |
| Total number of potentials | 6 |
| Number of connection types | 1 |
| Number of levels           | 1 |

| Connection 1                                      |                                             |
|---------------------------------------------------|---------------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                         |
| Actuation type                                    | Lever                                       |
| Solid conductor                                   | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor                           | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm <sup>2</sup>                |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm <sup>2</sup>                |
| Strip length                                      | 11 ... 12 mm / 0.43 ... 0.47 inches         |
| Pole number                                       | 6                                           |
| Conductor entry direction to mating direction     | 0 °                                         |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 5 mm / 0.197 inches    |
| Width         | 44 mm / 1.732 inches   |
| Height        | 11.5 mm / 0.453 inches |
| Depth         | 33.6 mm / 1.323 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                      |
| Locking of plug-in connection      | Lateral locking lever   |

### 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                          | 0.171 MJ                                                                 |
| Actuator color                     | orange                                                                   |
| Weight of insulation material      | 3.81 g                                                                   |
| Weight                             | 10.9 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                  | 4066966496093 |
| Customs tariff number | 85366990990   |

### Product Classification

|           |                      |
|-----------|----------------------|
| UNSPSC    | 39121409             |
| 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       | UL-US-<br>L45172-6187117-81111991-4 |

Downloads

Environmental Product Compliance

| Compliance Search                                     |  |
|-------------------------------------------------------|--|
| Environmental Product Compliance<br>2231-1106/038-000 |  |

Documentation

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

CAD/CAE-Data

| CAD data                          |  |
|-----------------------------------|--|
| 2D/3D Models<br>2231-1106/038-000 |  |



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



**Item No.: 231-606**  
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; gray



**Item No.: 2231-1606**  
1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; 2,50 mm²; gray



**Item No.: 2231-1606/000-044**  
1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; direct marking; 2,50 mm²; gray



**Item No.: 2231-1606/000-9034**  
1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; direct marking; 2,50 mm²; gray



**Item No.: 2231-1606/334-000**  
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



**Item No.: 231-436/001-000/105-604/997-407**  
THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-436/001-000/105-604**  
THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-136/001-000/105-604/997-407**  
THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-136/001-000/105-604**  
THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-466/001-000/105-604/997-407**  
THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-466/001-000/105-604**  
THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-166/001-000/105-604/997-407**  
THR male header; 1.2 x 1.2 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-166/001-000/105-604**  
THR male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 6-pole; black



**Item No.: 231-436/001-000**  
THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 6-pole; gray



**Item No.: 231-136/001-000**  
THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray



**Item No.: 231-466/001-000**  
THT male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 6-pole; gray



**Item No.: 231-166/001-000**  
THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray

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 mm² / 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 mm² / 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 mm² / 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

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 Strain relief

1.2.5.1 Strain relief plate



**Item No.: 2231-534**  
Strain relief plate; for female and male connectors; 1 part; lever; Pin spacing 5 mm; gray

1.2.6 Test and measurement

1.2.6.1 Testing accessories



**Item No.: 231-661**  
Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray



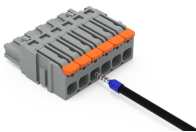
**Item No.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

Installation Notes

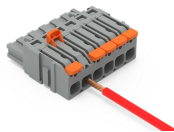
Conductor termination



Inserting solid conductor via push-in termination.

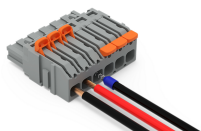


Ferruled fine-stranded conductors can be directly inserted.



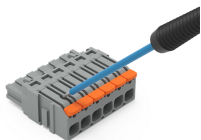
Insert fine-stranded conductors – and remove all conductors – via operating tool.

## Conductor removal

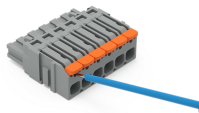


Removing a conductor via lever.

## 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.