

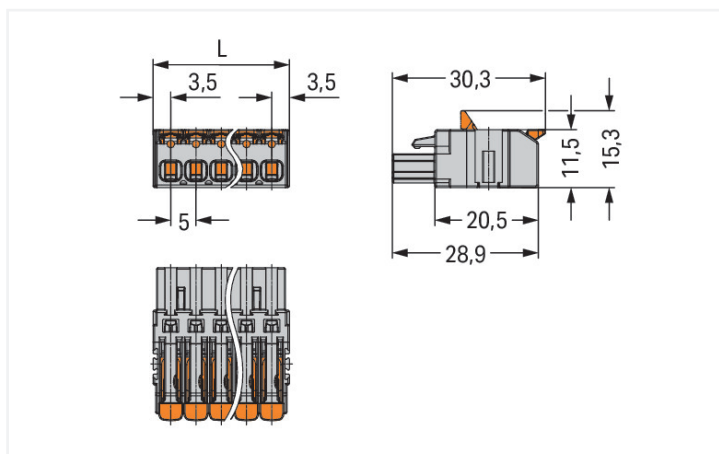
Data Sheet | Item Number: 2231-1108/327-047

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; direct marking; 2,50 mm²; gray

<https://www.wago.com/2231-1108/327-047>



Color: ■ gray



$L = (\text{pole no.} \times \text{pin spacing}) + 2$ mm2- and 3-pole female connectors – one latch only

- Intuitive and tool-free lever actuation
- Universal connection for all conductor types
- Push-in termination of solid and ferruled conductors
- Just 11.5 mm tall

- Test slot 0° and 90° to conductor entry
- Codable

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
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

Ratings per IEC/EN

| | |
|---|---|
| Ratings per | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 320 V |
| Rated impulse withstand voltage (III / 3) | 4 kV |
| Rated voltage (III/2) | 320 V |
| Rated impulse withstand voltage (III/2) | 4 kV |
| Nominal voltage (II/2) | 630 V |
| Rated impulse withstand voltage (II/2) | 4 kV |
| Rated current | 16 A |
| Legend (ratings) | (III / 2) \triangle Overvoltage category III / Pollution degree 2 |

Ratings per UL

| | |
|--------------------------------|---------|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 20 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

Ratings per CSA

| | |
|---------------------------------|-------|
| Approvals per | CSA |
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 20 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

Connection Data

| | |
|----------------------------|---|
| Clamping units | 8 |
| Total number of potentials | 8 |
| 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 ² / 24 ... 12 AWG |
| Fine-stranded conductor | 0.2 ... 2.5 mm ² / 24 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 1.5 mm ² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm ² |
| Strip length | 11 ... 12 mm / 0.43 ... 0.47 inches |
| Pole number | 8 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 5 mm / 0.197 inches |
| Width | 37 mm / 1.654 inches |
| Height | 11.5 mm / 0.453 inches |
| Depth | 30.3 mm / 1.193 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) | Information on material specifications can be found here |
| 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 | 0.209 MJ |
| Actuator color | orange |
| Weight of insulation material | 3.81 g |
| Weight | 13.2 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 | 4066966740318 |
| Customs tariff number | 85366990990 |

Product Classification

| | |
|-----------|----------------------|
| ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

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

Downloads


















Documentation

| Additional Information | | | |
|------------------------|------------|-------------------|--|
| Technical Section | 03.04.2019 | pdf 2027.26 KB | |

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

| | | | |
|--|--|--|--|
|  Item No.: 231-608 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; gray |  Item No.: 2231-1608 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 2,50 mm²; gray |  Item No.: 2231-1608/000-044 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; direct marking; 2,50 mm²; gray |  Item No.: 2231-1608/000-9034 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; direct marking; 2,50 mm²; gray |
|  Item No.: 2231-1608/335-000 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; Strain relief plate; 2,50 mm²; gray |  Item No.: 231-438/001-000/105-604/997-407 THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 8-pole; black |  Item No.: 231-438/001-000/105-604 THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 8-pole; black |  Item No.: 231-138/001-000/105-604/997-407 THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 8-pole; black |
|  Item No.: 231-138/001-000/105-604 THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 8-pole; black |  Item No.: 231-468/001-000/105-604/997-407 THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 8-pole; black |  Item No.: 231-468/001-000/105-604 THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 8-pole; black |  Item No.: 231-168/001-000/105-604/997-407 THR male header; 1.2 x 1.2 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 8-pole; black |
|  Item No.: 231-168/001-000/105-604 THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 8-pole; black |  Item No.: 231-438/001-000 THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 8-pole; gray |  Item No.: 231-138/001-000 THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 8-pole; gray |  Item No.: 231-468/001-000 THT male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 8-pole; gray |
|  Item No.: 231-168/001-000 THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 8-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



Item No.: 216-284

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 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 Locking system

1.2.4.1 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

1.2.5 Marking

1.2.5.1 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

1.2.6 Strain relief

1.2.6.1 Strain relief plate



Item No.: 2231-535

Strain relief plate; for female and male connectors; 1 part; lever; Pin spacing 5 mm; 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 mm²; light gray

1.2.8 Tool

1.2.8.1 Operating tool



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; multicoloured

Installation Notes

Conductor termination

Inserting solid conductor via push-in termination.

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

Conductor removal

Removing a conductor via lever.

Testing



Coding

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