

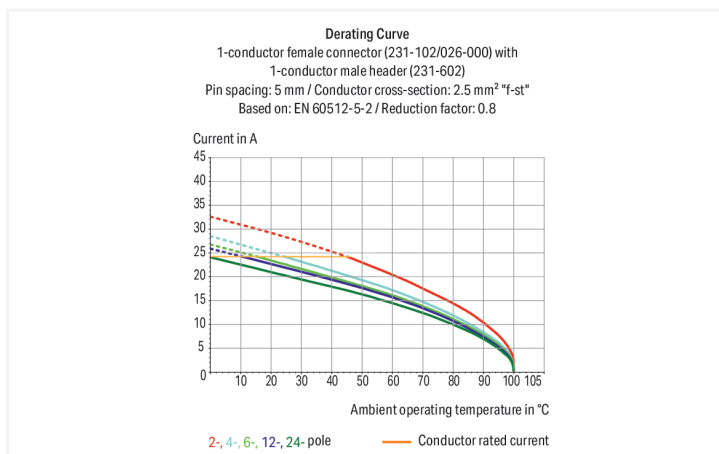
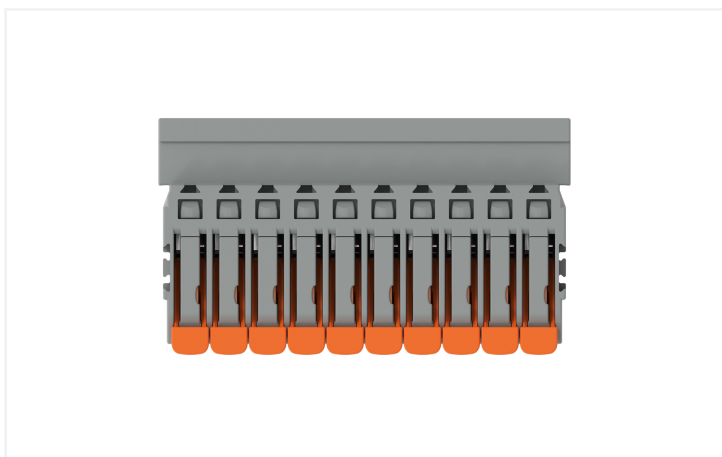
# Data Sheet | Item Number: 2231-1610/000-044

1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 10-pole; direct marking; 2,50 mm<sup>2</sup>; gray

<https://www.wago.com/2231-1610/000-044>



Color: ■ gray



- Universal connection for all conductor types
- Easy wiring during cable pre-assembly and on devices thanks to vertical and horizontal CAGE CLAMP® actuation
- For wire-to-wire and board-to-wire connections
- Versions with snap-in mounting feet or flanges for surface or through-panel installation
- Can be coded

## 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  
Gold-plated or partially gold-plated contact surfaces  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

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

## Ratings

|               |         |
|---------------|---------|
| Approvals per | UL 1977 |
| Rated voltage | 600 V   |
| Rated current | 15 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                                    | Lever                                       |
| Actuation direction 1                             | Operation parallel to conductor entry       |
| Actuation direction 2                             | Operation perpendicular to conductor entry  |
| 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                                       | 10  |
| Conductor entry direction to mating direction     | 0°  |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 5 mm / 0.197 inches    |
| Width       | 53.2 mm / 2.094 inches |

### Mechanical data

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

### Plug-in connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| 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                   | Electrolytic copper (E <sub>CU</sub> )                                   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.251 MJ   |
| Weight                             | 15.4 g   |

### Environmental requirements

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

### Commercial data

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 25 pcs        |
| Packaging type        | Box           |
| Country of origin     | PL            |
| GTIN                  | 4066966846522 |
| Customs tariff number | 85366930000   |

### Product Classification

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

### Environmental Product Compliance

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

## Downloads

## Documentation

### Additional Information

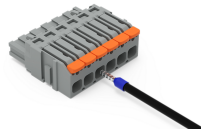
|                   |            |                   |  |
|-------------------|------------|-------------------|--|
| Technical Section | 03.04.2019 | pdf<br>2027.26 KB |  |
|-------------------|------------|-------------------|--|

## Installation Notes

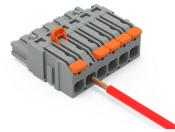
### Conductor termination



Inserting solid conductor via push-in termination.



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

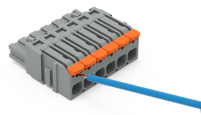
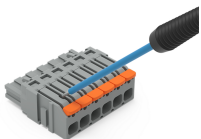


### Conductor removal



Removing a conductor via lever.

## Testing



## Coding



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