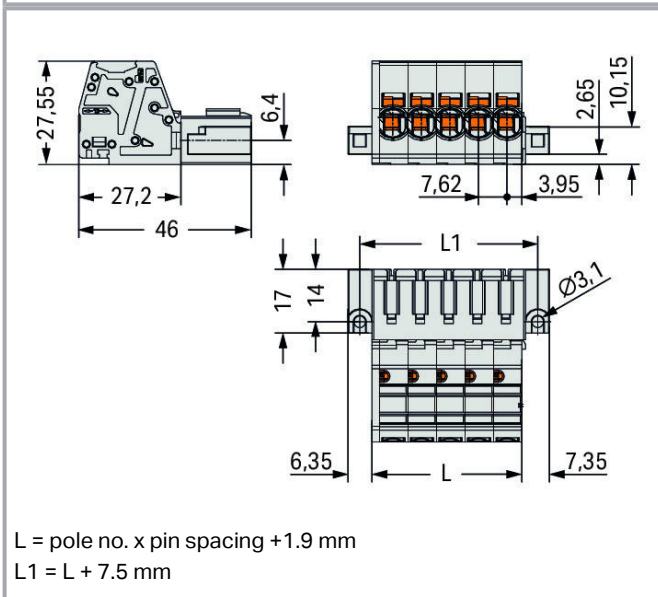
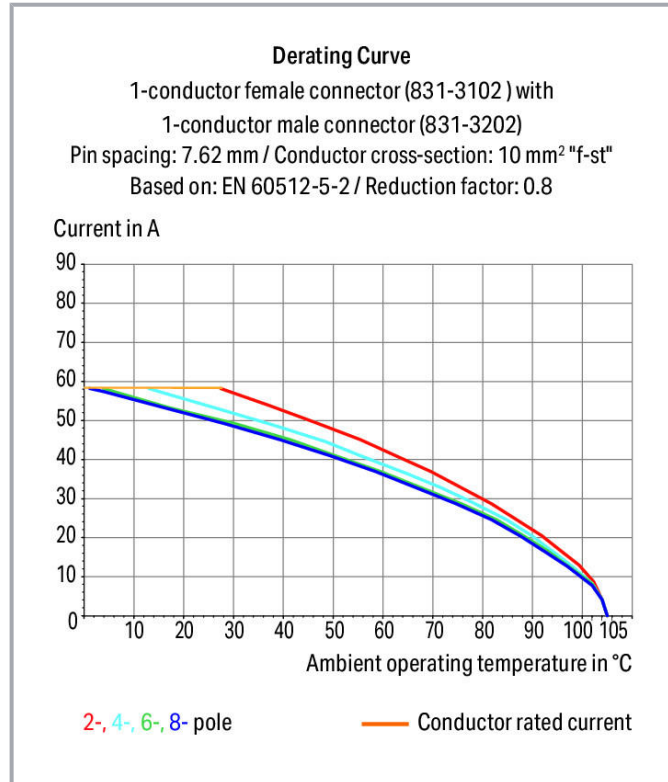


**Data sheet | Item number: 831-3206/109-000**

1-conductor male connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 6-pole; 100% protected against mismatching; Threaded flange; 10,00 mm²; light gray



[www.wago.com/831-3206\\_109-000](http://www.wago.com/831-3206_109-000)



Subject to changes. Please also observe the further product documentation!

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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## Item description

- Universal connection for all conductor types
- Push-in termination of solid or ferruled conductors
- Integrated test ports for 2 mm Ø test plugs
- 600 V UL per UL 1059
- 100 % protected against mismatching
- Coding via coding fingers

### Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

## Data

### Electrical data

### IEC Approvals

|                             |   |
|-----------------------------|---|
| Ratings per                 | IEC/EN 60664-1  |
| Rated voltage (III / 3)     | 800 V   |
| Rated surge voltage (III/3) | 8 kV  |
| Rated voltage (III/2)       | 1000 V  |
| Rated surge voltage (III/2) | 8 kV  |
| Nominal voltage (II/2)      | 1000 V  |
| Rated surge voltage (II/2)  | 8 kV  |
| Rated current               | 41 A  |
| Legend (ratings)            | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

### UL Approvals

|                                |         |
|--------------------------------|---------|
| Approvals per                  | UL 1059 |
| Rated voltage UL (Use Group C) | 600 V   |
| Rated current UL (Use Group C) | 42 A    |

### CSA Approvals

|                                 |       |
|---------------------------------|-------|
| Approvals per                   | CSA   |
| Rated voltage CSA (Use Group C) | 600 V |

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Rated current CSA (Use Group C) 41 A

### Connection data

|   |   |
|---|---|
| Connection technology                             | Push-in CAGE CLAMP®                       |
| Actuation type                                    | Operating tool                            |
| Solid conductor                                   | 0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG |
| Fine-stranded conductor                           | 0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.5 ... 6 mm <sup>2</sup>                 |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 6 mm <sup>2</sup>                 |
| Strip length                                      | 13 ... 15 mm / 0.51 ... 0.59 inch         |
| Pole No.  | 6   |
| Total number of potentials                        | 6   |
| Number of connection types                        | 1   |
| Number of levels                                  | 1   |

### Physical data

|             |                      |
|-------------|----------------------|
| Pin spacing | 7.62 mm / 0.3 inch   |
| Width       | 61.3 mm / 2.414 inch |
| Height      | 27.6 mm / 1.087 inch |
| Depth       | 46 mm / 1.811 inch   |

### Plug-in connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for conductor       |
| Mismating protection               | Yes                 |
| Locking of plug-in connection      | Threaded flange     |

### Material data

|                             |  |
|-----------------------------|--|
| Color                       | light gray                             |
| Material group              | I                                      |
| Insulation material         | 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-plated                             |
| Fire load                   | 0.535 MJ                               |

Subject to changes. Please also observe the further product documentation!

|        |        |
|--------|--------|
| Weight | 42.4 g |
|--------|--------|

## Environmental requirements


|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

## Commercial data

|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | PL            |
| GTIN                  | 4055144044232 |
| Customs tariff number | 8536694040    |

## Approvals / Certificates

### Country specific Approvals

| Logo  | Approval                                     | Additional Approval Text | Certificate name |
|---|--|--------------------------|------------------|
|   | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-61360 /M1     |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-116057        |

## Counterpart



Item no.831-3106/107-000

1-conductor female connector; 100% protected against mismatching; Screw flange; 10 mm<sup>2</sup>; Pin spacing 7.62 mm; 6-pole; 10,00 mm<sup>2</sup>; light gray

[www.wago.com/831-3106/107-000](http://www.wago.com/831-3106/107-000)

## Downloads

### Documentation

#### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>2.0 MB | Download |
|------------------------|-------------|---------------|----------|

## Environmental Product Compliance

### Compliance Search

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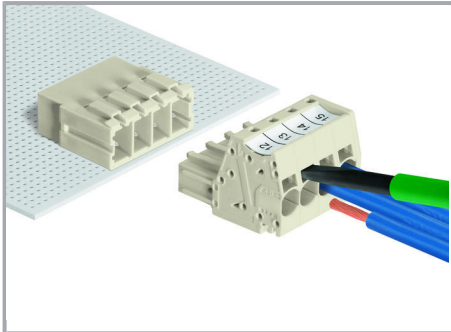
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Environmental Product Compliance 831-3206/109-000

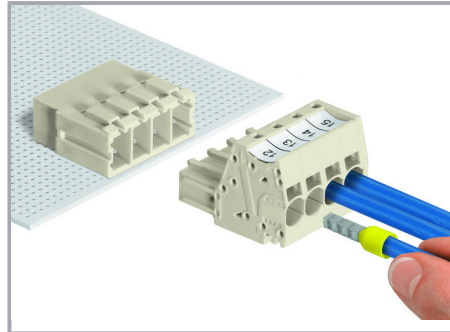
1-conductor male connector; Push-in CAGE CLAMP®; 10 mm<sup>2</sup>; Pin spacing 7.62 mm;  
6-pole; 100% protected against mismatching; Threaded flange; 10,00 mm<sup>2</sup>; light gray

## Installation Notes

### Conductor termination

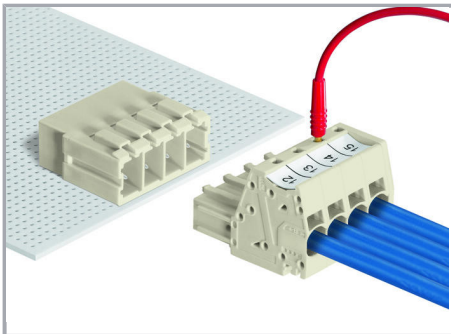


Inserting fine-stranded conductors via (5.5 x 0.8) mm screwdriver.



Solid and ferruled conductors are terminated by simply pushing them into unit.

### Testing



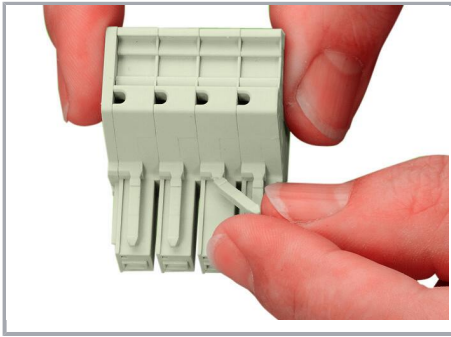
Testing with 2 mm Ø test plug.

### Coding

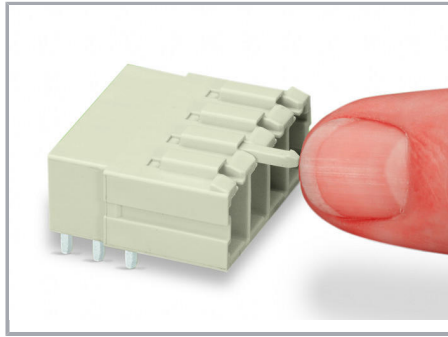
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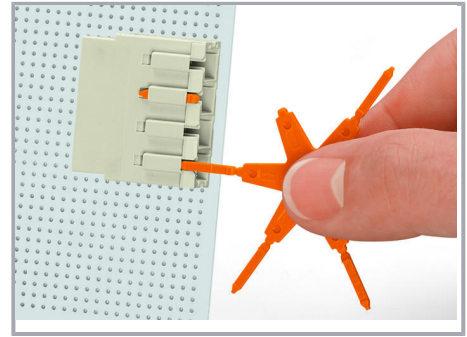
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Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.

### Marking



Direct marking of female connectors and male connectors



MCS MAXI male and female connectors can be marked via Mini-WSB or WMB markers.

### Product family

*MCS* MAXI 6

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!