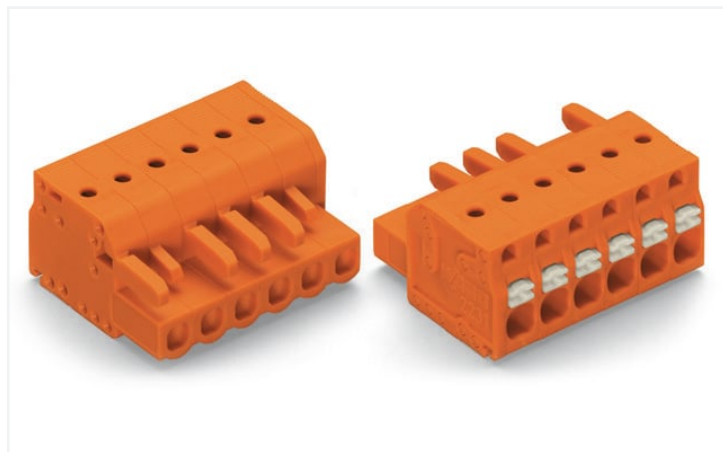


## Data Sheet | Item Number: 2231-308/026-000

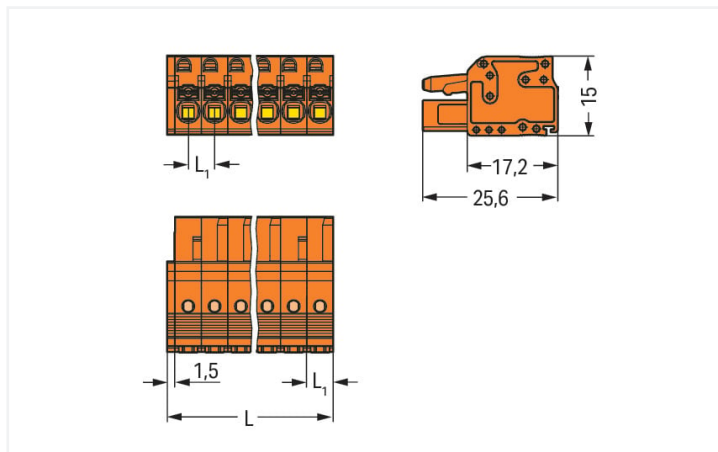
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 8-pole; 2,50 mm²; orange

<https://www.wago.com/2231-308/026-000>



Color:  orange

Similar to illustration

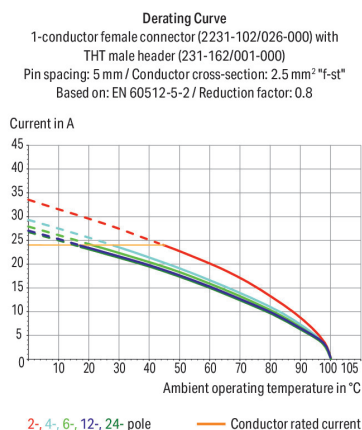


Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$

$L1 = 5.08 \text{ mm}$

2- to 3-pole female connectors – one latch only



- Universal connection for all conductor types
- Easy-to-use design does not require specialty tools
- Ability to wire while mated
- Push-in termination of solid and ferruled conductors
- Integrated test ports for testing parallel to the conductor entry
- Coding option available

### Notes

#### Safety information 1

Variants:

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.

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

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

### Ratings per UL 1059

|                                |         |
|--------------------------------|---------|
| Approvals per                  | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 15 A    |
| Rated voltage UL (Use Group C) | 150 V   |
| Rated current UL (Use Group C) | 15 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

### Ratings per UL 1977

|                         |       |
|-------------------------|-------|
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977   | 15 A  |

### Ratings per CSA

|                                 |       |
|---------------------------------|-------|
| Approvals per                   | CSA   |
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A  |
| Rated voltage CSA (Use Group C) | 150 V |
| Rated current CSA (Use Group C) | 15 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

## Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 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                                    | Push-button                                 |
| 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                                      | 10 ... 11 mm / 0.39 ... 0.43 inches         |
| Pole number                                       | 8                                           |
| Conductor entry direction to mating direction     | 0°                                          |

## Physical data

|             |                         |
|-------------|-------------------------|
| Pin spacing | 5.08 mm / 0.2 inches    |
| Width       | 42.14 mm / 1.659 inches |
| Height      | 15 mm / 0.591 inches    |
| Depth       | 25.6 mm / 1.008 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                       |  | orange                                                                   |
| Material group              |  | I                                                                        |
| Insulation material         |  | Polyamide (PA66)                                                         |
| Flammability class per UL94 |  | V0                                                                       |
| Clamping spring material    |  | Chrome-nickel spring steel (CrNi)                                        |
| Contact material            |  | Copper alloy                                                             |
| Contact plating             |  | Tin                                                                      |
| Fire load                   |  | 0.262 MJ                                                                 |
| Weight                      |  | 12.8 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                  |  | 4045454696542 |
| Customs tariff number |  | 85366990990   |

Approvals / Certificates

General approvals



| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CB<br>DEKRA Certification B.V.        | IEC 61984     | NL-39756/A1      |
| CSA<br>DEKRA Certification B.V.       | C22.2 No. 158 | 2314554          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984      | 71-121453        |
| UL<br>UL International Germany GmbH   | UL 1977       | E45171           |
| UR<br>Underwriters Laboratories Inc.  | UL 1059       | E45172           |



Downloads

Environmental Product Compliance

|                                                      |
|------------------------------------------------------|
| Compliance Search                                    |
| Environmental Product Compliance<br>2231-308/026-000 |



Documentation

|                        |
|------------------------|
| Additional Information |
| Technical Section      |
| 03.04.2019             |
| pdf<br>1949.09 KB      |



CAD/CAE-Data

|                                  |
|----------------------------------|
| CAD data                         |
| 2D/3D Models<br>2231-308/026-000 |



|                                  |
|----------------------------------|
| CAE data                         |
| ZUKEN Portal<br>2231-308/026-000 |



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



|                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 231-638</a><br>1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 8-pole; 2,50 mm²; orange |
|--------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 231-538/001-000</a><br>THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5.08 mm; 8-pole; orange |
|------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 231-338/001-000</a><br>THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 8-pole; orange |
|--------------------------------------------------------------------------------------------------------------------------------------|

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



|                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-301</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow |
|-------------------------------------------------------------------------------------------------------------------|

|                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-321</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow |
|-------------------------------------------------------------------------------------------------------------------|

|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-151</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated |
|-------------------------------------------------------------------------------------------------------------|

|                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-131</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored |
|-----------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-302</a><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise |
|----------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-322</a><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise |
|----------------------------------------------------------------------------------------------------------------------------|

|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-132</a><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated |
|-------------------------------------------------------------------------------------------------------------|

|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 216-152</a><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated |
|-------------------------------------------------------------------------------------------------------------|

1.2.2 Insulation stop



1.2.1.1 Ferrule

|                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white   | <br><b>Item No.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                     | <br><b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                                       | <br><b>Item No.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92       |
| <br><b>Item No.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored                                                               | <br><b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored                                                         | <br><b>Item No.: 216-242</b><br>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               | <br><b>Item No.: 216-262</b><br>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   |
| <br><b>Item No.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                           | <br><b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                     | <br><b>Item No.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                  | <br><b>Item No.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored                                                              |
| <br><b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored                                                              | <br><b>Item No.: 216-243</b><br>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 | <br><b>Item No.: 216-263</b><br>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                   | <br><b>Item No.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                               |
| <br><b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                              | <br><b>Item No.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; un-insulated; electro-tin plated                                                                          | <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                    | <br><b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; un-insulated; electro-tin plated; silver-colored                                                                |
| <br><b>Item No.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black                                                                         | <br><b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black                                                                   | <br><b>Item No.: 216-244</b><br>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             | <br><b>Item No.: 216-264</b><br>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 |
| <br><b>Item No.: 216-284</b><br>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 | <br><b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; un-insulated; electro-tin plated                                                                       | <br><b>Item No.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | <br><b>Item No.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; un-insulated; electro-tin plated; silver-colored                                                             |
| <br><b>Item No.: 216-106</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; un-insulated; electro-tin plated; silver-colored                                                             |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                     |

