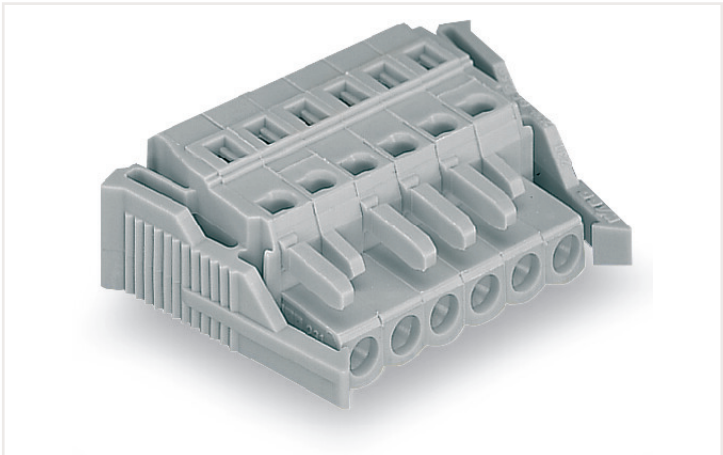
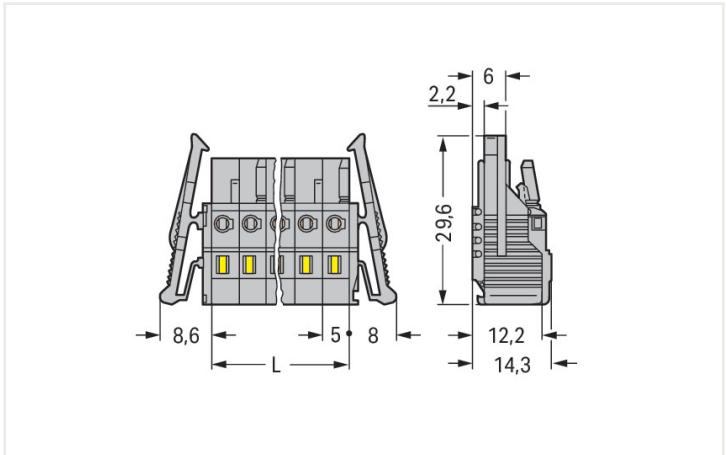


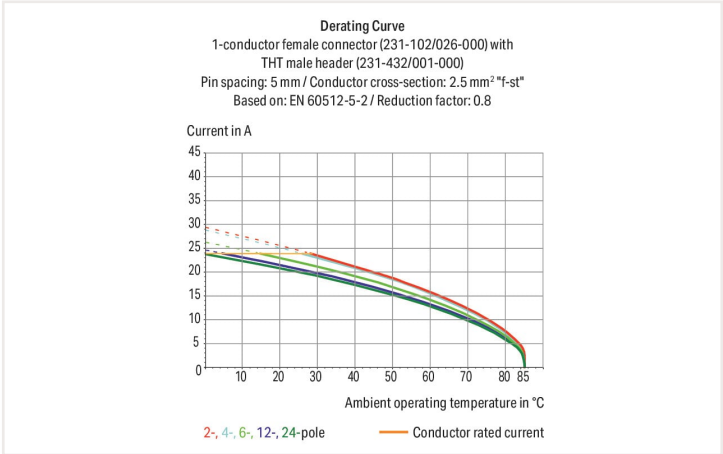
**Data Sheet | Item Number: 231-108/037-000**  
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole;  
Lateral locking levers; 2,50 mm²; gray  
<https://www.wago.com/231-108/037-000>



Color: gray      Similar to illustration



Dimensions in mm  
L = pole no. x pin spacing  
2- to 3-pole female connectors – one latch only



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- Integrated test ports
- With coding fingers

| Notes                |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. 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:            | Gold-plated or partially gold-plated contact surfaces<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            |                |
| 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           |

| Ratings per IEC/EN         |                                                           |
|----------------------------|-----------------------------------------------------------|
| Nominal voltage (II/2)     | 630 V                                                     |
| Rated surge voltage (II/2) | 4 kV                                                      |
| Rated current              | 16 A                                                      |
| Legend (ratings)           | (III / 2) ≙ 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 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) | 15 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

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

| Connection data            |   |                                                   |                                   |
|----------------------------|---|---------------------------------------------------|-----------------------------------|
| Connection points          | 8 | Connection 1                                      |                                   |
| Total number of potentials | 8 | Connection technology                             | CAGE CLAMP®                       |
| Number of connection types | 1 | Actuation type                                    | Operating tool                    |
| Number of levels           | 1 | Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
|                            |   | Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
|                            |   | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                  |
|                            |   | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                  |
|                            |   | Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches |
|                            |   | Pole number                                       | 8                                 |
|                            |   | Conductor entry direction to mating direction     | 0°                                |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 5 mm / 0.197 inches    |
| Width         | 56.6 mm / 2.228 inches |
| Height        | 14.3 mm / 0.563 inches |
| Depth         | 29.6 mm / 1.165 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      | 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         | Polyamide (PA66)                  |                                                                          |
| Flammability class per UL94 | V0                                |                                                                          |
| Clamping spring material    | Chrome-nickel spring steel (CrNi) |                                                                          |
| Contact material            | Copper alloy                      |                                                                          |
| Contact plating             | Tin                               |                                                                          |
| Fire load                   | 0.243 MJ                          |                                                                          |
| Weight                      | 15.6 g                            |                                                                          |

| Environmental requirements |                |  |
|----------------------------|----------------|--|
| Limit temperature range    | -60 ... +85 °C |  |
| Processing temperature     | -35 ... +60 °C |  |

| Commercial data       |                        |  |
|-----------------------|------------------------|--|
| Product Group         | 3 (Multi Conn. System) |  |
| eCl@ss 10.0           | 27-44-03-09            |  |
| eCl@ss 9.0            | 27-44-03-09            |  |
| ETIM 8.0              | EC002638               |  |
| ETIM 7.0              | EC002638               |  |
| PU (SPU)              | 25 pcs                 |  |
| Packaging type        | Box                    |  |
| Country of origin     | DE                     |  |
| GTIN                  | 4044918340342          |  |
| 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     | LR 18677-25      |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984  | 71-121453        |
| UL<br>Underwriters Laboratories Inc.  | UL 1059   | E45172           |
| UR<br>Underwriters Laboratories Inc.  | UL 1977   | E45171           |

Declarations of conformity and manufacturer's declarations



| Approval                      | Standard | Certificate Name |
|-------------------------------|----------|------------------|
| Railway<br>WAGO GmbH & Co. KG | -        | Railway Ready    |



Approvals for marine applications

|  |  |  |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Approval                                                                         | Standard                                                                          | Certificate Name                                                                  |
| ABS<br>American Bureau of Ship-<br>ping                                          | -                                                                                 | 19-HG1869876-PDA                                                                  |
| BV<br>Bureau Veritas S.A.                                                        | IEC 60998                                                                         | 11915/D0 BV                                                                       |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd                            | -                                                                                 | TAE000016Z                                                                        |

Downloads

Environmental Product Compliance

| Compliance Search                                      |
|--------------------------------------------------------|
| Environmental Product<br>Compliance<br>231-108/037-000 |



Documentation

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



CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>231-108/037-000 |



| CAE data                             |
|--------------------------------------|
| EPLAN Data Portal<br>231-108/037-000 |
| ZUKEN Portal<br>231-108/037-000      |



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; 2,50 mm²; gray



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

1.2 Optional Accessories

1.2.1 Cover

## 1.2.1.1 Cover

**Item No.: 231-668**

Lockout caps; for covering unused clamping units; gray

## 1.2.2 Ferrule

## 1.2.2.1 Ferrule

**Item No.: 216-301**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

**Item No.: 216-321**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

**Item No.: 216-151**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

**Item No.: 216-131**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise

**Item No.: 216-322**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise

**Item No.: 216-132**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

**Item No.: 216-152**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

**Item No.: 216-241**

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

**Item No.: 216-201**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

**Item No.: 216-221**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

**Item No.: 216-141**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-101**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-121**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-242**

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

**Item No.: 216-262**

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

**Item No.: 216-202**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

**Item No.: 216-222**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

**Item No.: 216-142**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-102**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-122**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-243**

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

**Item No.: 216-263**

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

**Item No.: 216-203**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

**Item No.: 216-223**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

**Item No.: 216-103**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

**Item No.: 216-143**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-123**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-204**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

**Item No.: 216-224**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

**Item No.: 216-244**

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

**Item No.: 216-264**

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

### 1.2.2.1 Ferrule



**Item No.: 216-284**

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



**Item No.: 216-124**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-insulated; electro-tin plated



**Item No.: 216-144**

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



**Item No.: 216-104**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-106**

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; un-insulated; electro-tin plated; silver-colored

### 1.2.3 Insulation stop

#### 1.2.3.1 Insulation stop



**Item No.: 231-670**

Insulation stop; 0.08-0.2 mm<sup>2</sup> / 0.2 mm<sup>2</sup> "s"; white



**Item No.: 231-671**

Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; light gray



**Item No.: 231-672**

Insulation stop; 0.75 - 1 mm<sup>2</sup>; dark gray

### 1.2.4 Jumper

#### 1.2.4.1 Jumper



**Item No.: 231-910**

Jumper; for conductor entry; 10-way; insulated; gray



**Item No.: 231-902**

Jumper; for conductor entry; 2-way; insulated; gray



**Item No.: 231-903**

Jumper; for conductor entry; 3-way; insulated; gray



**Item No.: 231-905**

Jumper; for conductor entry; 5-way; insulated; gray



**Item No.: 231-907**

Jumper; for conductor entry; 7-way; insulated; gray

### 1.2.5 Marking

#### 1.2.5.1 Marking strip



**Item No.: 210-331/500-103**

Marking strips; as a DIN A4 sheet; MARKED; 1-12 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**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.: 210-331/500-104**

Marking strips; as a DIN A4 sheet; MARKED; 13-24 (300x); Height of marker strip: 2.3 mm/0.091 in; 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 housing



[Item No.: 232-608](#)  
Strain relief housing; 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 mm<sup>2</sup>; light gray

1.2.8 Tool

1.2.8.1 Operating tool



[Item No.: 231-231](#)  
Combination operating tool; red



[Item No.: 209-132](#)  
Operating tool; for connecting comb-style jumper bar; made of insulating material; 2-way; natural



[Item No.: 280-440](#)  
Operating tool; made of insulating material; 10-way



[Item No.: 209-130](#)  
Operating tool; made of insulating material; 1-way; for 264 Series (1-/2-way), 280, 281 Series (up to 3-way); natural



[Item No.: 231-291](#)  
Operating tool; made of insulating material; 1-way; loose; red



[Item No.: 231-131](#)  
Operating tool; made of insulating material; 1-way; loose; white



[Item No.: 280-432](#)  
Operating tool; made of insulating material; 2-way; white



[Item No.: 280-433](#)  
Operating tool; made of insulating material; 3-way



[Item No.: 280-434](#)  
Operating tool; made of insulating material; 4-way



[Item No.: 280-435](#)  
Operating tool; made of insulating material; 5-way; gray



[Item No.: 280-436](#)  
Operating tool; made of insulating material; 6-way



[Item No.: 280-437](#)  
Operating tool; made of insulating material; 7-way



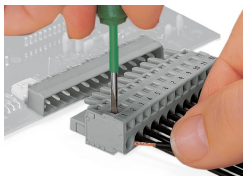
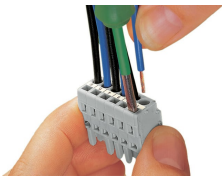
[Item No.: 280-438](#)  
Operating tool; made of insulating material; 8-way



[Item No.: 231-159](#)  
Operating tool; natural

Installation Notes

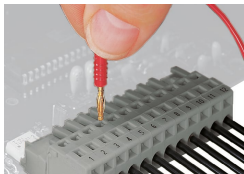
Conductor termination



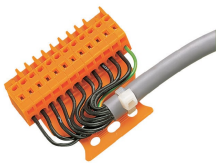
Coding



Testing



Installation



Marking

