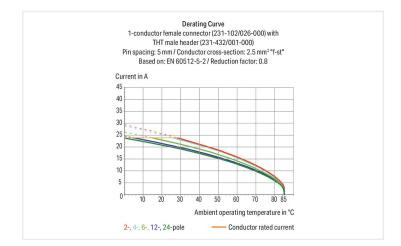
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 2,50 mm²; gray

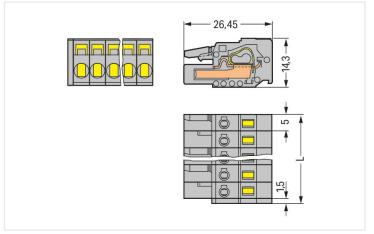


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Dimensions in mm

- L = (pole no. x pin spacing) + 1.5 mm
- 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

https://www.wago.com/231-112/026-000



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

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) ≙ 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) | 15 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

| Ratings per UL | |
|-------------------------|-------|
| 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 D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

| Connection data | | |
|-----------------------------------|----|------------|
| Total number of connection points | 12 | Connect |
| Total number of potentials | 12 | Connection |
| Number of connection types | 1 | Actuation |
| Number of levels | 1 | Solid cond |
| | | Fine-stran |
| | | Fine-stran |

| Connection 1 | |
|---|--------------------------|
| Connection technology | CAGE CLAMP® |
| Actuation type | Operating tool |
| 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 mm ² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 2.5 mm ² |
| Strip length | 8 9 mm / 0.31 0.35 inch |
| Pole number | 12 |
| Conductor entry direction to mating direction | 0° |

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Physical data

 Pin spacing
 5 mm / 0.197 inch

 Width
 61.5 mm / 2.421 inch

 Height
 14.3 mm / 0.563 inch

 Depth
 26.45 mm / 1.041 inch

Mechanical data

Variable coding

Yes

 Plug-in connection

 Contact type (pluggable connector)
 Female connector/socket

 Connector (connection type)
 for conductor

 Mismating protection
 No

 Locking of plug-in connection
 none

Material data Note (material data) Color gray Material group Insulation material Polyamide (PA66) Flammability class per UL94 V0 Chrome-nickel spring steel (CrNi) Clamping spring material Contact material Copper alloy Contact plating Tin Fire load 0.297 MJ Weight 21.6 g

Environmental requirements

Limit temperature range -60 ... +85 °C

Commercial data **Product Group** 3 (Multi Conn. System) eCl@ss 10.0 27-44-03-09 27-44-03-09 eCl@ss 9.0 ETIM 7.0 EC002638 **ETIM 6.0** EC002638 PU (SPU) 25 Stück Packaging type Box Country of origin VKOrg Germany DE **GTIN** 4044918341370 Customs tariff number VKOrg Germany 85366990990

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Approvals / Certificates

Country specific Approvals





| Approval | Standard | Certificate name |
|---------------------------------------|-----------|------------------|
| CB DEKRA Certification B.V. | IEC 61984 | NL-39756 |
| CSA DEKRA Certification B.V. | C22.2 | LR 18677-25 |
| KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 2190761.01 |

Ship Approvals







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

UL-Approvals



| Approval | Standard | Certificate name |
|---|----------|------------------|
| UL Underwriters Laboratories Inc. | UL 1059 | E45172 |
| UR Underwriters Laboratories Inc. | UL 1977 | E45171 |

Downloads

Environmental Product Compliance

Compliance Search Environmental Product Compliance 231-112/026-000



Documentation

Additional Information

Technical Section pdf 1949.09 KB _____

CAD/CAE-Data

CAD data

2D/3D Models 231-112/026-000 CAE data

EPLAN Data Portal 231-112/026-000

ZUKEN Portal 231-112/026-000



https://www.wago.com/231-112/026-000



1.1 Counterpart

1 Compatible products

1.1.1 Male connector/plug



Item no.: 231-612

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; 2,50 mm²; gray



Item no.: 231-612/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; clamping collar; 2,50 mm²; gray



Item no.: 231-612/019-000/035-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; clamping collar; Strain relief plate; 2,50 mm²; gray



Item no.: 231-612/018-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; DIN-35 rail/panel mounting; Snap-in mounting feet; 2,50 mm²; gray



Item no.: 231-612/114-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; Snap-in flange; 2,50 mm2; gray



Item no.: 232-512/007-000 Double pin header; DIN-35 rail mounting; 12-pole; Pin spacing 5 mm; gray



Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight; Pin spacing 5 mm; 12-pole; gray



231-442/001-000/105-604/997-409

THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 12-pole; black



Item no.: 231-442/001-000/105-604

THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 12-pole; black

Item no.:

231-142/001-000/105-604/997-409

THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 12-pole; black

Item no.: 231-142/001-000/105-604

THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 12-pole; black

Item no.:

231-472/001-000/105-604/997-409

THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 12-pole; black



Item no.: 231-472/001-000/105-604

THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 12-pole; black

231-172/001-000/105-604/997-409

THR male header; 1.2 x 1.2 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 12-pole; black

Item no.: 231-172/001-000/105-604

THR male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 12-pole; black

Item no.: 232-342

THT male header for double-deck assembly; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 12-pole; gray



Item no.: 231-442/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 12-pole; gray

Item no.: 231-142/001-000

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 12-pole; gray

Item no.: 231-472/001-000

THT male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 12-pole; gray

Item no.: 231-172/001-000

THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 12-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 mm² / AWG 24; insulated; electro-tin plated; yellow



Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24;

uninsulated; electro-tin plated



Item no.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored



Item no.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item no.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item no.: 216-132

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

Item no.: 216-152

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



https://www.wago.com/231-112/026-000 1.2.2.1 Ferrule Item no.: 216-241 Item no.: 216-201 Item no.: 216-221 Item no.: 216-141 Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; unsulated; electro-tin plated; electrolytic sulated; electro-tin plated; white sulated; electro-tin plated; white insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white 46228, Part 1/08.92 Item no.: 216-101 Item no.: 216-121 Item no.: 216-242 Item no.: 216-262 Ferrule; Sleeve for 0.5 mm² / AWG 22; un-Ferrule; Sleeve for 0.5 mm² / AWG 22; un-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; ininsulated; electro-tin plated; silver-coloinsulated; electro-tin plated; silver-colosulated; electro-tin plated; electrolytic sulated: electro-tin plated: electrolytic red red copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray 46228, Part 4/09.90; gray Item no.: 216-202 Item no.: 216-222 Item no.: 216-142 Item no.: 216-102 Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; Ferrule; Sleeve for 0.75 mm² / AWG 20; sulated; electro-tin plated; gray sulated; electro-tin plated; gray uninsulated; electro-tin plated; electrolyuninsulated; electro-tin plated; silver-cotic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 Item no.: 216-203 Ferrule; Sleeve for 0.75 mm² / AWG 20; Ferrule; Sleeve for 1 mm² / AWG 18; insu-Ferrule; Sleeve for 1 mm² / AWG 18; insu-Ferrule; Sleeve for 1 mm² / AWG 18; insuuninsulated; electro-tin plated; silver-colated; electro-tin plated; electrolytic coplated; electro-tin plated; electrolytic coplated; electro-tin plated; red per; gastight crimped; acc. to DIN 46228, per; gastight crimped; acc. to DIN 46228, lored Part 4/09.90; red Part 4/09.90; red





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

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

Item no.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

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1.2.3 Insulation stop

1.2.3.1 Insulation stop





Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; white



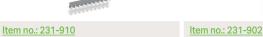
Insulation stop; 0.25 - 0.5 mm2; light gray



Insulation stop; 0.75 - 1 mm²; dark gray

1.2.4 Jumper

1.2.4.1 Jumper





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

sulated; gray

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

Jumper; for conductor entry; 10-way; in-

1.2.5 Marking

1.2.5.1 Marking strip

Item no.: 210-331/500-103

Marking strips; as a DIN A4 sheet; MAR-KED; 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; MAR-KED; 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; MAR-KED; 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; MAR-KED; 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; MAR-KED; 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; MAR-KED; 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.: 232-612

Strain relief housing; gray

https://www.wago.com/231-112/026-000



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.: 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



Combination operating tool; red

Item no.: 231-291

Item no.: 231-231

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

<u>Item no.: 280-438</u>

Operating tool; made of insulating material; 8-way

<u>Item no.: 231-159</u>

Operating tool; natural

Installation notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Inserting a conductor into CAGE CLAMP® unit via operating tool (231-291).



Inserting a conductor via operating tool.

Coding



Coding a female connector by removing coding finger(s).

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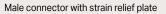
Testing



Testing – female connector with CAGE CLAMP®
Integrated test ports for testing perpendicular to conductor entry via 2 or 2.3 mm Ø test plug

Installation







Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Marking



Labeling via direct marking or self-adhesive strips.

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