1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole;

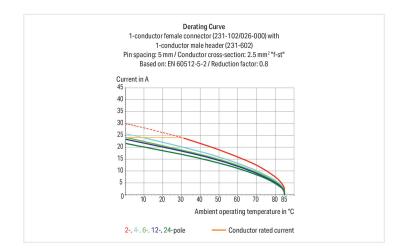
clamping collar; 2,50 mm²; gray

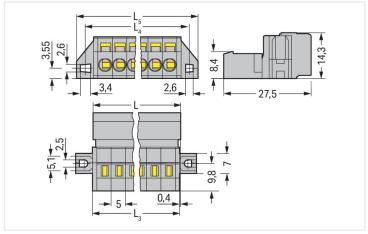
https://www.wago.com/231-608/019-000





Color: gray





Dimensions in mm L = (pole no. -1) x pin spacing + 8.2 mm L3 = L -0.2 mm L4 = L3 + 5.8 mm L5 = L3 + 11.8 mm

- Universal connection for all conductor types
- $\bullet \ \ \text{Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP} \\ \text{actuation}$
- For wire-to-wire and board-to-wire connections
- · Versions available with snap-in mounting feet or flanges for panel or through-panel mounting
- · With coding fingers

https://www.wago.com/231-608/019-000



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: 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	
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	12 A
Legend (ratings)	(III / 2) Overvoltage category III / Polluti-

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

on degree 2

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	8	
Total number of potentials	8	
Number of connection types	1	
Number of levels	1	

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	8
Conductor entry direction to mating direction	0°

Data sheet | Item number: 231-608/019-000 https://www.wago.com/231-608/019-000



Physical data	
Pin spacing	5 mm / 0.197 inch
Width	54.8 mm / 2.157 inch
Height	14.3 mm / 0.563 inch
Depth	27.5 mm / 1.083 inch

Mechanical data	
Variable coding	Yes
Direct ground contact to DIN-rail/drilled hole/housing	No
Mounting type	Mounting flange Feed-through mounting Panel mounting

Plug-in connection	
Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	No
Locking of plug-in connection	none

Material data	
Note (material data)	Information on material data can be found here
Color	gray
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.238 MJ
Weight	13.2 g

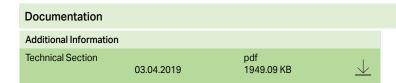
Environmental requirements	
Limit temperature range	-60 +100 °C

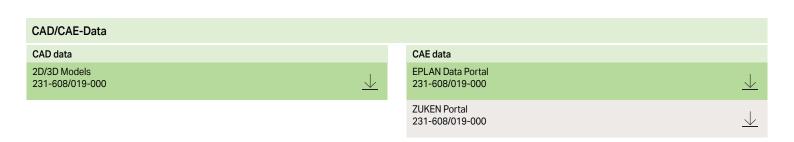
Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 7.0	EC002638
ETIM 6.0	EC002638
PU (SPU)	50 Stück
Packaging type	Вох
Country of origin VKOrg Germany	DE
GTIN	4044918257817
Customs tariff number VKOrg Germany	85366990990

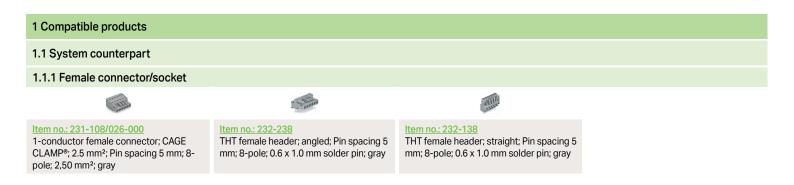
https://www.wago.com/231-608/019-000

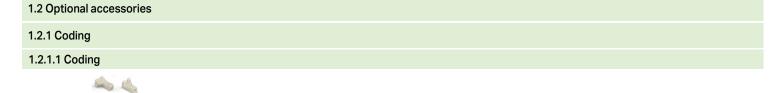


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Item no.: 231-129 Coding key; snap-on type; light gray

https://www.wago.com/231-608/019-000



1.2.2 Cover

1.2.2.1 Cover



Item no.: 231-668

Lockout caps; for covering unused clamping units; gray

1.2.3 Ferrule

1.2.3.1 Ferrule



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

Item no.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item no.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Item no.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item no.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-

sulated; electro-tin plated; gray

Item no.: 216-122 Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

Item no.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insu-

lated; electro-tin plated; red

Item no.: 216-204

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

Item no.: 216-224

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

Item no.: 216-321

Item no.: 216-201

Item no.: 216-121

Item no.: 216-222

Item no.: 216-243

Part 4/09.90: red

red

Ferrule; Sleeve for 0.25 mm² / AWG 24; in-

Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-

sulated; electro-tin plated; light turquoise

Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-

Ferrule; Sleeve for 0.5 mm² / AWG 22; un-

insulated; electro-tin plated; silver-colo-

Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-

Ferrule; Sleeve for 1 mm² / AWG 18; insu-

lated; electro-tin plated; electrolytic cop-

per; gastight crimped; acc. to DIN 46228,

sulated; electro-tin plated; gray

sulated; electro-tin plated; white

sulated; electro-tin plated; yellow

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Item no.: 216-103

Item no.: 216-143

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN

Item no.: 216-151

Item no.: 216-132

Item no.: 216-221

Item no.: 216-242

Item no.: 216-142

46228, Part 1/08.92

Item no.: 216-263

Part 4/09.90: red

46228, Part 4/09.90; gray

Ferrule; Sleeve for 0.25 mm² / AWG 24;

Ferrule; Sleeve for 0.34 mm² / AWG 24;

Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic

copper; gastight crimped; acc. to DIN

Ferrule; Sleeve for 0.75 mm² / 18 AWG;

uninsulated; electro-tin plated; electroly-

tic copper; gastight crimped; acc. to DIN

Ferrule; Sleeve for 1 mm² / AWG 18; insu-

lated; electro-tin plated; electrolytic cop-

per; gastight crimped; acc. to DIN 46228,

sulated; electro-tin plated; white

uninsulated; electro-tin plated

uninsulated; electro-tin plated

46228, Part 1/08.92

Item no.: 216-244

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

Item no.: 216-131

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

Item no.: 216-152

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

Item no.: 216-141 Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item no.: 216-262 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item no.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-co-

Item no.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item no.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

Item no.: 216-264

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

https://www.wago.com/231-608/019-000



1.2.3.1 Ferrule

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

Item no.: 216-124

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

Item no.: 216-144

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

Item no.: 216-104

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

1.2.4 Installation

1.2.4.1 Mounting accessories

Item no.: 231-295

Item no.: 231-195 Screw with nut

Screw with nut; M2x12; for fixing element

Item no.: 209-147

Self-tapping screw

Item no.: 231-194

Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

1.2.5 Insulation stop

1.2.5.1 Insulation stop

Item no.: 231-670

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

Item no.: 231-671

Insulation stop; 0.25 - 0.5 mm²; light gray

Item no.: 231-672

Insulation stop; 0.75 - 1 mm²; dark gray

1.2.6 Jumper

1.2.6.1 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

https://www.wago.com/231-608/019-000



1.2.7 Marking

1.2.7.1 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

1.2.8 Strain relief

1.2.8.1 Strain relief housing



Item no.: 232-608

Strain relief housing; gray

1.2.9 Tool

1.2.9.1 Operating tool

Item no.: 231-231

Combination operating tool; red

Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item no.: 210-65

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Item no.: 209-132

Operating tool; for connecting comb-style jumper bar; made of insulating material; 2-way; natural



Item no.: 210-250

Operating tool; for MCS MINI & MIDI with CAGE CLAMP® connection; red

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

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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 male header – fitting coding key

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



Male connector with strain relief plate



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!

Current addresses can be found at: $\underline{www.wago.com}$

Page 8/8 Version 18.04.2022