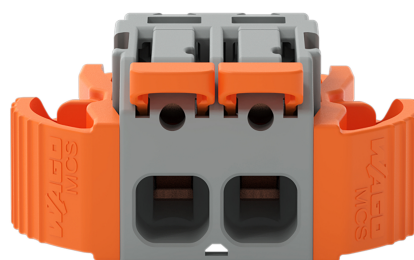


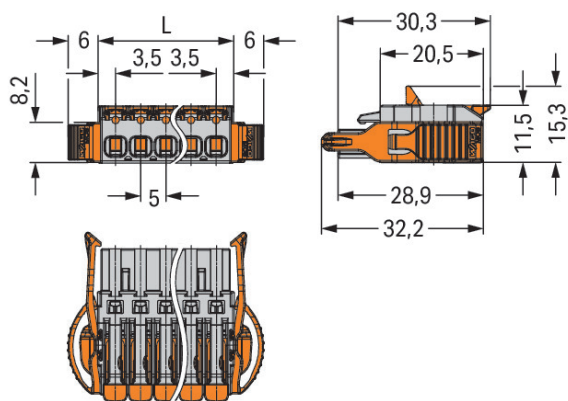
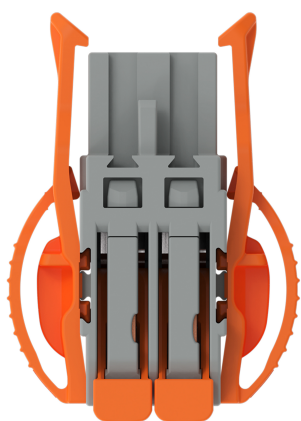
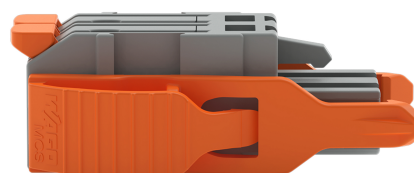
Data Sheet | Item Number: 2231-1102/038-000

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 2-pole; Lateral locking levers; 2,50 mm²; gray

<https://www.wago.com/2231-1102/038-000>



Color: ■ gray



$L = (\text{pole no.} \times \text{pin spacing}) + 2 \text{ mm}^2$ - and 3-pole female connectors – one latch only

Female connector, 2231 Series, lever

Our female connector (item number 2231-1102/038-000) simplifies electrical installations. Conductors can only be connected to this female connector if their strip length is between 11 and 12 mm. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be inserted without needing to use any tools—all

The contact surface is coated with tin.

Safety Information

Safety Information

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
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated impulse withstand voltage	4 kV	4 kV	4 kV
Rated current	16 A	16 A	16 A

Use group	B	C	D
Rated voltage	300 V	150 V	300 V
Rated current	20 A	15 A	10 A

Use group	B	C	D
Rated voltage	300 V	150 V	300 V
Rated current	20 A	15 A	10 A

Clamping units	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Lever
Solid conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 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	11 ... 12 mm / 0.43 ... 0.47 inches
Pole number	2
Conductor entry direction to mating direction	0 °

Pin spacing	5 mm / 0.197 inches
Width	24 mm / 3.701 inches
Height	11.5 mm / 0.453 inches
Depth	33.6 mm / 1.323 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	Lateral locking lever

Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0.08 MJ
Actuator color	orange
Weight of insulation material	3.81 g
Weight	4.4 g

Environmental requirements	
Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

Commercial data	
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966495898
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121409
ETIM 9.0	EC002638
ETIM 10.0	EC002638
ECCN	NO US CLASSIFICATION



Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-113351
CSA CSA Group	C22.2 No. 158	2314554
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-130478 REV.1
UL Underwriters Laboratories Inc.	UL 1059	UL-US- L45172-6187117-81111991-4

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2231-1102/038-000	↓

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2231-1102/038-000	↓



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

 Item No.: 231-602 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 2-pole; gray	 Item No.: 2231-1602 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 2-pole; 2,50 mm²; gray	 Item No.: 2231-1602/332-000 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 2-pole; Strain relief plate; 2,50 mm²; gray	 Item No.: 231-432/001-000/105-604/997-405 THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 2-pole; black
 Item No.: 231-432/001-000/105-604 THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 2-pole; black	 Item No.: 231-132/001-000/105-604/997-405 THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 2-pole; black	 Item No.: 231-132/001-000/105-604 THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 2-pole; black	 Item No.: 231-462/001-000/105-604/997-405 THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 2-pole; black
 Item No.: 231-462/001-000/105-604 THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 2-pole; black	 Item No.: 231-162/001-000/105-604/997-405 THR male header; 1.2 x 1.2 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 2-pole; black	 Item No.: 231-162/001-000/105-604 THR male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 2-pole; black	 Item No.: 231-432/001-000 THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 2-pole; gray
 Item No.: 231-132/001-000 THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 2-pole; gray	 Item No.: 231-462/001-000 THT male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 2-pole; gray	 Item No.: 231-162/001-000 THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 2-pole; gray	

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding

 Item No.: 2231-505 Coding pin carrier; 5 coding keys; for female connectors; orange
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1.2.2 Ferrule

1.2.2.1 Ferrule

 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.: 216-263 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	 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
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1.2.3 Marking

1.2.3.1 Marking strip



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.: 210-332/500-204
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

1.2.4 Strain relief

1.2.4.1 Strain relief plate



Item No.: 2231-532
Strain relief plate; for female and male connectors; 1 part; lever; Pin spacing 5 mm; gray

1.2.5 Test and measurement

1.2.5.1 Testing accessories



Item No.: 231-661
Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray



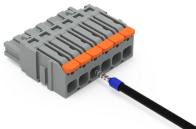
Item No.: 735-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

Installation Notes

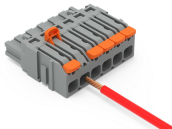
Conductor termination



Inserting solid conductor via push-in termination.



Ferruled fine-stranded conductors can be directly inserted.



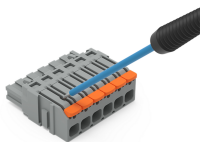
Insert fine-stranded conductors – and remove all conductors – via operating tool.

Conductor removal

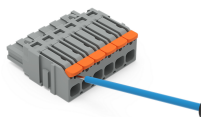


Removing a conductor via lever.

Testing



Prüfen senkrecht zur Leiteranschlussrichtung (90°) Prüfstift 1 mm 735-500



Prüfen aus Leiteranschlussrichtung (0°) Prüfstift 1 mm 735-500

Coding



Coding a 1-conductor female connector by inserting a coding pin.