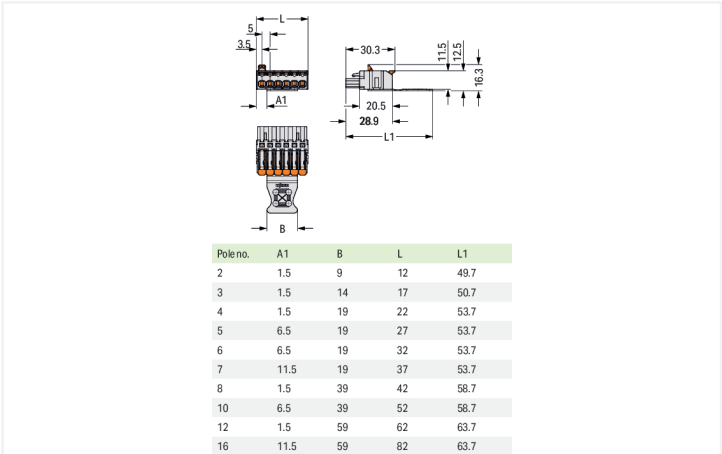




Color: ■ gray



Dimensions in mm

Female connector, 2231 Series, lever

This female connector (item number 2231-1110/327-000/335-000) provides hassle-free electrical installations. Conductors should only be connected to this female connector if their strip length is between 11 and 12 mm . This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with fer-

rules without needing to use any tools—all thanks to its pluggable design. The item's dimensions are (52 x 11.5 x 58.7) mm (width x height x depth). Depending on the type of conductor, this female connector is designed for conductor cross sections ranging from 0.2 mm² to 2.5 mm².

The contact surface is coated with tin. The strain relief plate secures the connected conductors and facilitates wire management.

Notes	
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/ .

Electrical data				
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
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	150 V	300 V
Rated current		20 A	15 A	10 A

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

Connection Data	
Clamping units	10
Total number of potentials	10
Number of connection types	1
Number of levels	1

Connection 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	10
Conductor entry direction to mating direction	0 °

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	52 mm / 2.047 inches
Height	11.5 mm / 0.453 inches
Depth	58.7 mm / 2.311 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
Strain relief	Strain relief plate

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	0.28 MJ
Actuator color	orange
Weight of insulation material	3.81 g
Weight	18 g

Environmental requirements

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

Commercial data

PU (SPU)	25 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966713954
Customs tariff number	85366990990

Product Classification

UNSPSC	39121409
ETIM 10.0	EC002638
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Downloads

Environmental Product Compliance

Compliance Search

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

↓

CAD/CAE-Data

CAD data

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

 Item No.: 231-610 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; gray	 Item No.: 2231-1610 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; 2,50 mm²; gray	 Item No.: 2231-1610/000-044 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; direct marking; 2,50 mm²; gray	 Item No.: 2231-1610/000-9034 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; direct marking; 2,50 mm²; gray
 Item No.: 2231-1610/335-000 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; Strain relief plate; 2,50 mm²; gray	 Item No.: 231-440/001-000/105-604/997-409 THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 10-pole; black	 Item No.: 231-440/001-000/105-604 THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 10-pole; black	 Item No.: 231-140/001-000/105-604/997-409 THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 10-pole; black
 Item No.: 231-140/001-000/105-604 THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 10-pole; black	 Item No.: 231-470/001-000/105-604/997-409 THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 5 mm; 10-pole; black	 Item No.: 231-470/001-000/105-604 THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 10-pole; black	 Item No.: 231-170/001-000/105-604/997-409 THR male header; 1.2 x 1.2 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 10-pole; black
 Item No.: 231-170/001-000/105-604 THR male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 10-pole; black	 Item No.: 231-440/001-000 THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 10-pole; gray	 Item No.: 231-140/001-000 THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 10-pole; gray	 Item No.: 231-470/001-000 THT male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 10-pole; gray
 Item No.: 231-170/001-000 THT male header; 1.2 x 1.2 mm solder pin; straight; Pin spacing 5 mm; 10-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

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

1.2.3 Locking system

1.2.3.1 Locking system



Item No.: 2231-515
center locking; for female connectors; For Push-in CAGE CLAMP® connection; lever; Pin spacing 5 mm; 5-pole; orange



Item No.: 2231-510
Locking lever; for female connectors; 1 part; For Push-in CAGE CLAMP® connection; lever; orange

1.2.4 Marking

1.2.4.1 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

1.2.5 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



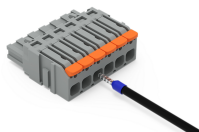
Item No.: 735-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

Installation Notes

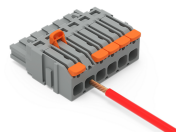
Conductor termination



Inserting solid conductor via push-in termination.

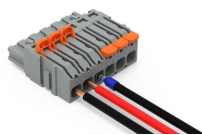


Ferruled fine-stranded conductors can be directly inserted.



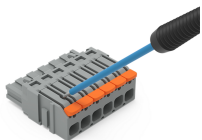
Insert fine-stranded conductors – and remove all conductors – via operating tool.

Conductor removal

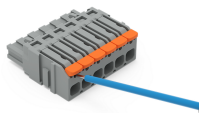


Removing a conductor via lever.

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.