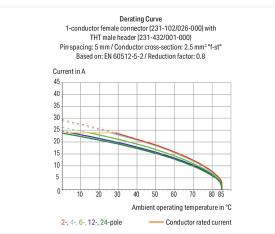
## Data Sheet | Item Number: 231-304/102-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5.08 mm; 4pole; with integrated end plate; 2,50 mm<sup>2</sup>; orange https://www.wago.com/231-304/102-000





Color: 📕 orange



• 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	The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capaci- ty 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/.

Dimensions in mm L = pole no. x pin spacing

2- to 3-pole female connectors - one latch only

# Data Sheet | Item Number: 231-304/102-000 https://www.wago.com/231-304/102-000



Electrical data			
Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	Ш
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	16 A	16 A	16 A
Approvals per		UL 1977	
Rated voltage		600 V	
Rated current		15 A	

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data			
Connection points	4	Connection 1	
Total number of potentials	4	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Actuation direction 1	Operation parallel to conductor entry
	Actuation direction 2	Operation perpendicular to conductor entry	
	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 uninsula- ted ferrule	0.25 2.5 mm <sup>2</sup>
		Strip length	8 9 mm / 0.31 0.35 inches
		Pole number	4
	Conductor entry direction to mating di- rection	0°	

Physical data	
Pin spacing	5.08 mm / 0.2 inches
Width	20.32 mm / 0.8 inches
Height	14.3 mm / 0.563 inches
Depth	26.45 mm / 1.041 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
Plugging without loss of pin spacing	Yes

https://www.wago.com/231-304/102-000

Material data



Note (material data)	
	Information on material specifications can be found here
Color	orange
Material group	1
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	0.1 MJ
Weight	7.2 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)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918346184
Customs tariff number	85366990990

**RoHS Compliance Status** 

Compliant,No Exemption

#### Approvals / Certificates

#### **General approvals**



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	EN 61984,IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UL UL International Germany GmbH	UL 1977	E45171
UR Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

https://www.wago.com/231-304/102-000

# W/AGO

#### Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 231-304/102-000	$\downarrow$

Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	$\downarrow$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 231-304/102-000	EPLAN Data Portal   231-304/102-000
	ZUKEN Portal 231-304/102-000

#### **1** Compatible Products

#### 1.1 System counterpart

1.1.1 Male connector/plug

#### Item No.: 231-634

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 4-pole; 2,50 mm<sup>2</sup>; orange

Item No.: 231-534/001-000 THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5.08 mm; 4-pole; orange



Item No.: 231-334/001-000 THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 4-pole; orange

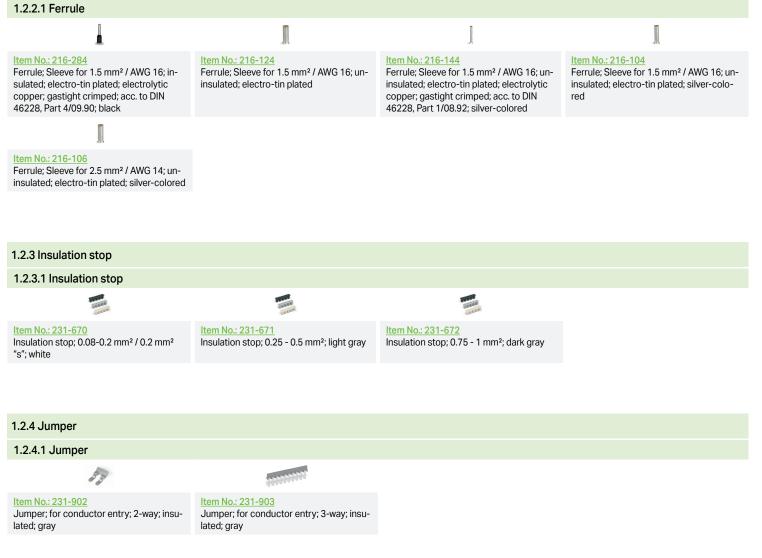
https://www.wago.com/231-304/102-000





https://www.wago.com/231-304/102-000





#### 1.2.5 Marking

#### 1.2.5.1 Marking strip

#### Item No.: 210-331/508-103

Marking strips; as a DIN A4 sheet; MAR-KED; 1-12 (200x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### .....

Item No.: 210-332/508-204 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.: 210-332/508-202 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.: 210-332/508-206

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

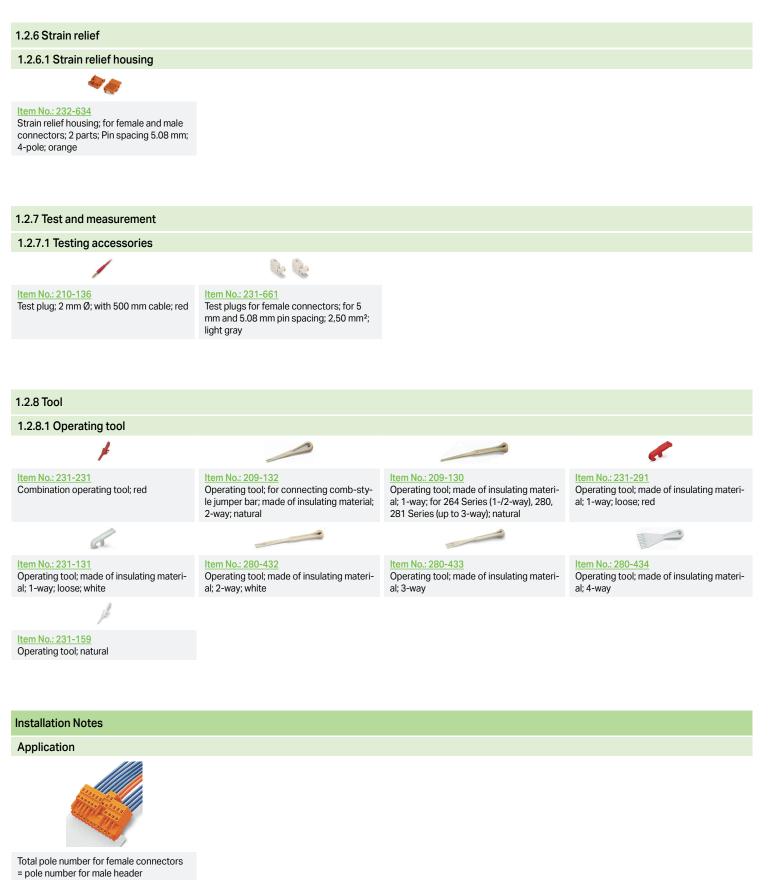
#### Item No.: 210-332/508-205

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.: 210-331/508-104

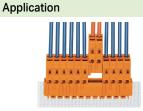
Marking strips; as a DIN A4 sheet; MAR-KED; 13-24 (200x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white https://www.wago.com/231-304/102-000





https://www.wago.com/231-304/102-000





Female connectors with a built-in end plate require no extra space, while maintaining the nominal cross-section. This means: Total length of female connectors is reduced to "pole no. x pin spacing"!

#### **Conductor termination**



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

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).

#### Testing



Testing – female connector with CAGE CLAMP® Integrated test ports for testing perpendi-

cular 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®

https://www.wago.com/231-304/102-000







Labeling via direct marking or self-adhesive strips.

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