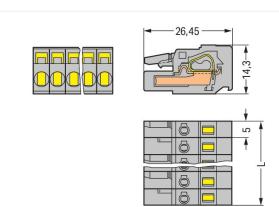
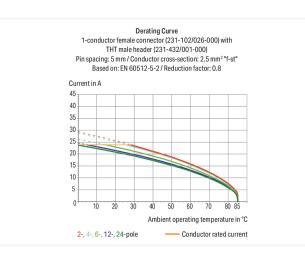
Data Sheet | Item Number: 231-108/102-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; with integrated end plate; 2,50 mm²; gray https://www.wago.com/231-108/102-000







Color: 🔳 gray



• 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: 231-108/102-000 https://www.wago.com/231-108/102-000



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 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		

		111 4050	
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	8	Connection 1	
Total number of potentials	8	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	$0.25 \dots 2.5 \text{ mm}^2$	
	Strip length	8 9 mm / 0.31 0.35 inches	
	Pole number	8	
	Conductor entry direction to mating di- rection	0°	

Pin spacing 5 mm / 0.197 inches Width 40 mm / 1.575 inches Height 14.3 mm / 0.563 inches Depth 26.5 mm / 1.043 inches	Physical data	
Height 14.3 mm / 0.563 inches	Pin spacing	5 mm / 0.197 inches
-	Width	40 mm / 1.575 inches
Depth 26.5 mm / 1.043 inches	Height	14.3 mm / 0.563 inches
	Depth	26.5 mm / 1.043 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/231-108/102-000

Material data



Note (material data)	
	Information on material specifications 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	Copper alloy
Contact plating	Tin
Fire load	0.354 MJ
Weight	13.9 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)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918340472
Customs tariff number	85366990990

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	LR 18677-25
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UL Underwriters Laboratories Inc.	UL 1059	E45172
UR Underwriters Laboratories Inc.	UL 1977	E45171

Declarations of conformity and manufacturer's declarations



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

Data Sheet | Item Number: 231-108/102-000 https://www.wago.com/231-108/102-000

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV DNV GL SE	-	TAE000016Z



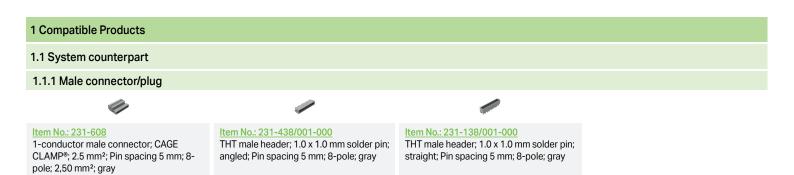
Downloads

Compliance Search	
Environmental Prod Compliance 231-108/102-000	uct 🔟

Documentation

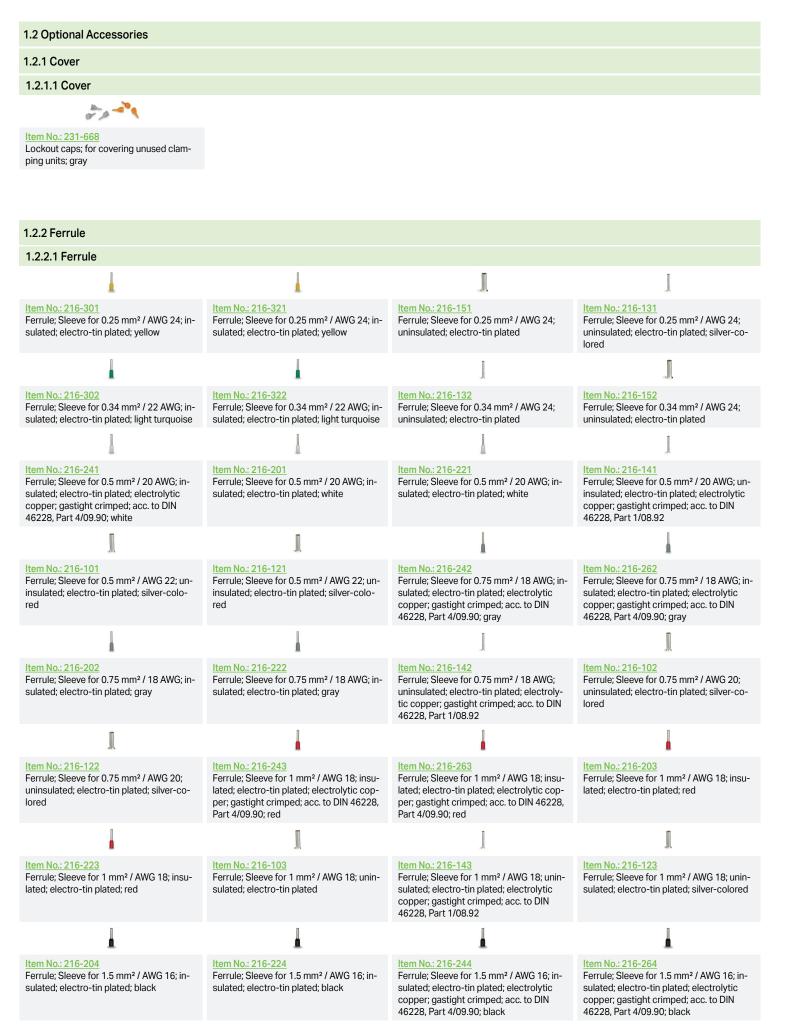
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	\downarrow

CAD/CAE-Data CAD data CAE data 2D/3D Models EPLAN Data Portal \downarrow 231-108/102-000 231-108/102-000 ZUKEN Portal 231-108/102-000



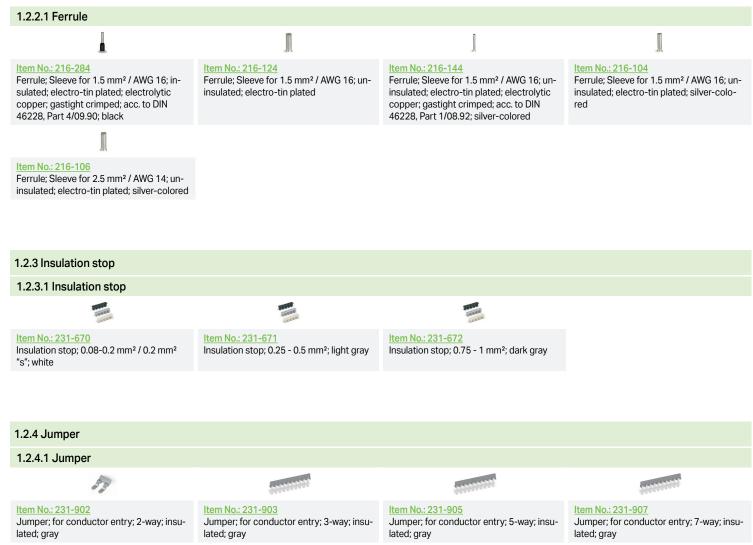
Data Sheet | Item Number: 231-108/102-000 https://www.wago.com/231-108/102-000





https://www.wago.com/231-108/102-000





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.: 210-332/500-204

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.: 210-332/500-202 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.: 210-332/500-206

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.: 210-332/500-205

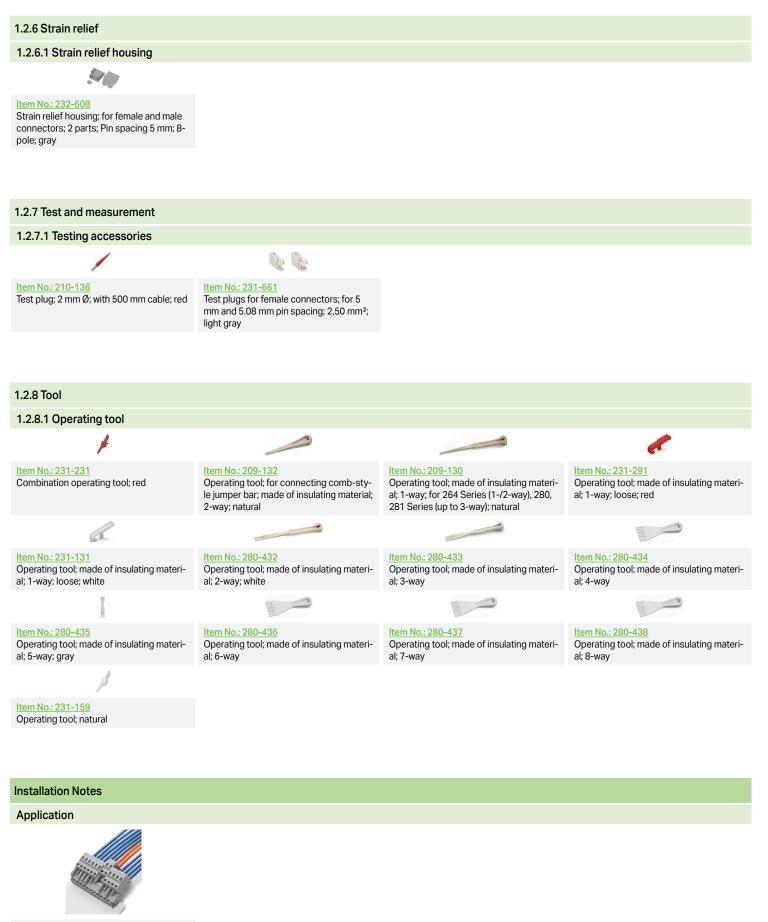
Marking strips; as a DIN A4 sheet; MAR-KED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

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

https://www.wago.com/231-108/102-000

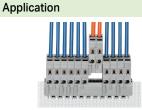




Total pole number for female connectors = pole number for male header

https://www.wago.com/231-108/102-000





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.



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/231-108/102-000







Labeling via direct marking or self-adhesive strips.

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