Data Sheet | Item Number: 231-305/031-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 5pole; clamping collar; 2,50 mm²; orange https://www.wago.com/231-305/031-000





Color: 📕 orange

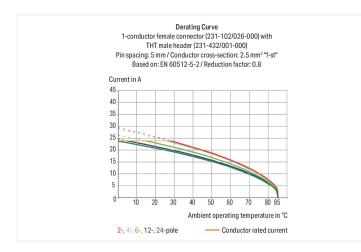
Dimensions in mm

L1 = (pole no. x pin spacing) + 3 mm

L2 = (pole no. x pin spacing) + 8.8 mm

L3 = (pole no. x pin spacing) + 14.8 mm

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



• 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/.

Data Sheet | Item Number: 231-305/031-000 https://www.wago.com/231-305/031-000



Electrical data			
Ratings per	IE	C/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	

		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	5	Connection 1	
Total number of potentials	5	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 ²
		Strip length	8 9 mm / 0.31 0.35 inches
		Pole number	5
		Conductor entry direction to mating di- rection	0°

Physical data	
Pin spacing	5.08 mm / 0.2 inches
Width	40.2 mm / 1.583 inches
Height	14.3 mm / 0.563 inches
Depth	26.45 mm / 1.041 inches

Mechanical data	
Variable coding	Yes
Mounting type	Mounting flange Feed-through mounting Panel mounting
Anti-rotation protection	Yes

https://www.wago.com/231-305/031-000



Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	No

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	orange
Material group	I
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	0.159 MJ
Weight	10.1 g

Environmental requirements	
Limit temperature range	-60 +85 ℃
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	4044918346498
Customs tariff number	85366990990

Environmental Product Compliance

EN 61984

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificate	S				
General approvals			General approvals		
SP 71	KEUR FL ®		UL UL International Germany GmbH	UL 1977	E45171
Approval	Standard	Certificate Name			
CB DEKRA Certification B.V.	EN 61984,IEC 61984	NL-39756/A1			
CSA DEKRA Certification B.V.	C22.2	1466354			
cURus Underwriters Laboratories	UL 1059	E45172			

DEKRA Certification B.V.

Inc. KEMA/KEUR

71-121453

Data Sheet | Item Number: 231-305/031-000 https://www.wago.com/231-305/031-000

Declarations of conformity and manufacturer's declarations

Standard



Approval Railway WAGO GmbH & Co. KG **Certificate Name** Railway Ready

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 231-305/031-000	\downarrow

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

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 231-305/031-000	EPLAN Data Portal 231-305/031-000
	ZUKEN Portal

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

Item No.: 231-635

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 5-pole; 2,50 mm²; orange

Item No.: 231-535/001-000 THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5.08 mm; 5-pole; orange

231-305/031-000

Item No.: 231-335/001-000 THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 5-pole; orange

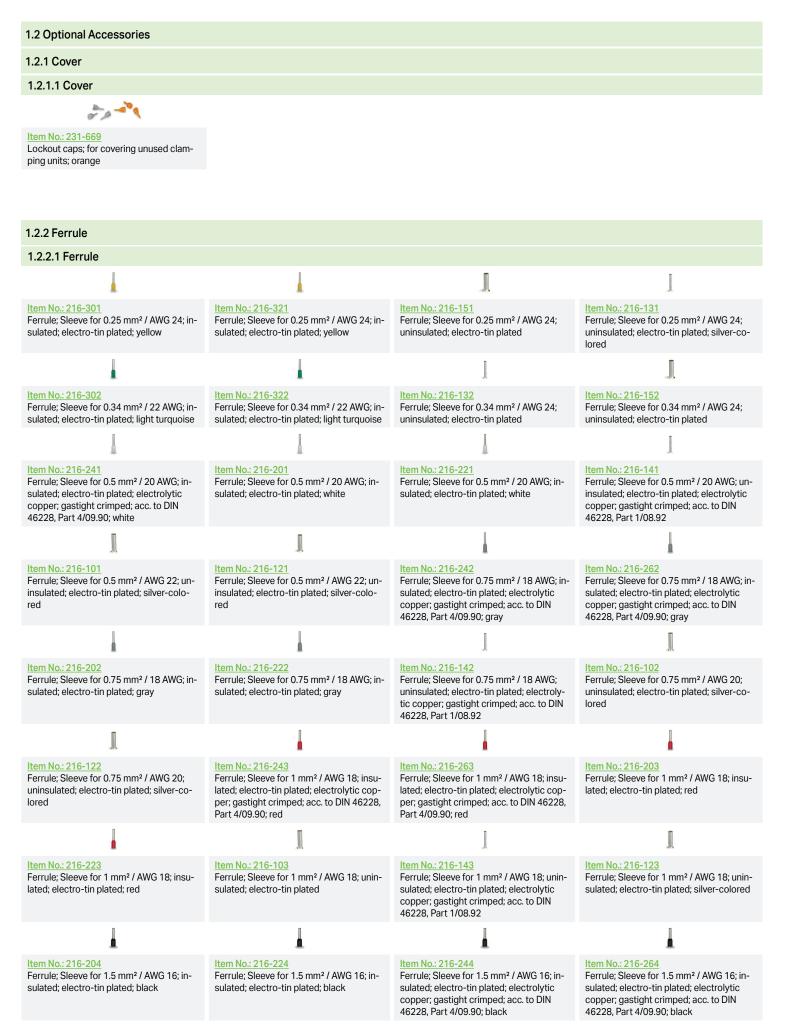




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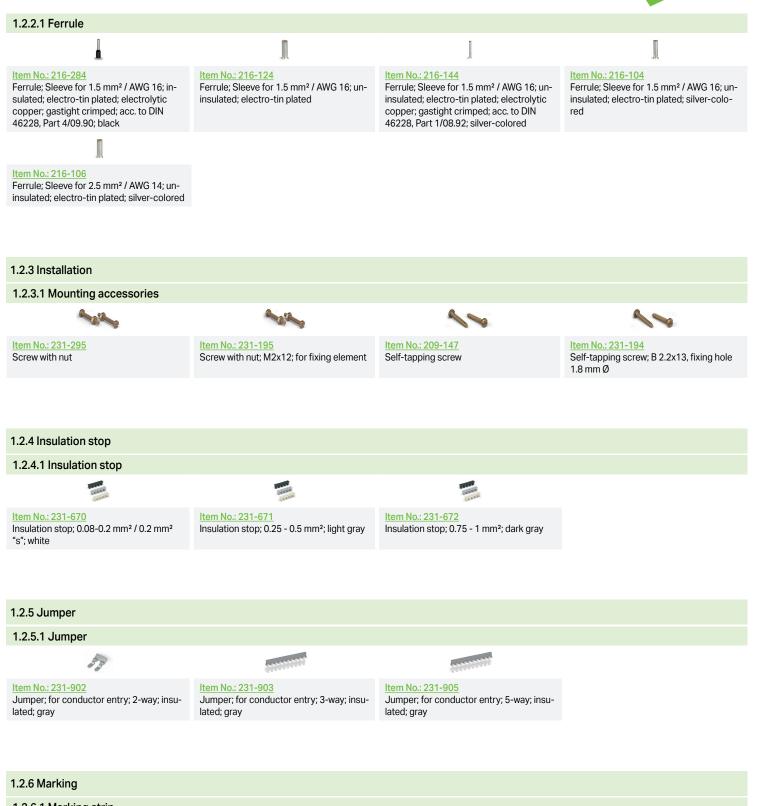
https://www.wago.com/231-305/031-000





https://www.wago.com/231-305/031-000





1.2.6.1 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-

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

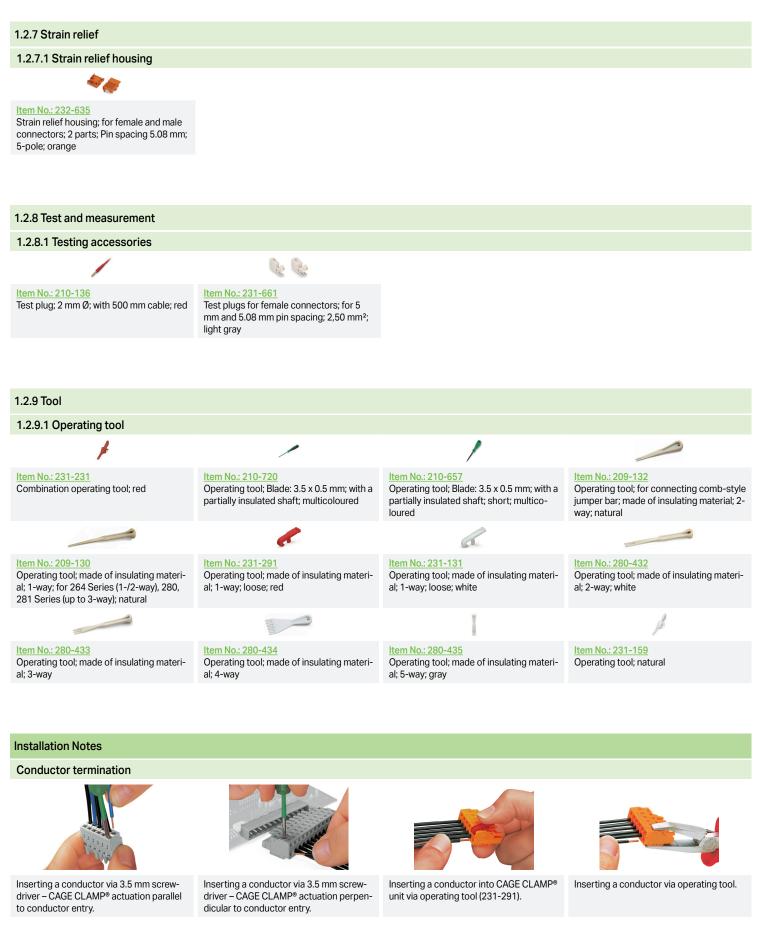
Item No.: 210-332/508-205

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/231-305/031-000





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https://www.wago.com/231-305/031-000

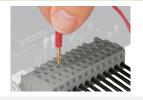




Coding a female connector by removing coding finger(s).

Testing

Coding



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.

Application



Female connectors with mounting flanges can be used as PCB through-panel connectors – conductor termination parallel to CAGE CLAMP® actuation.

https://www.wago.com/231-305/031-000









PCB female connectors with mounting flanges can be used as through-panel connectors for external wiring.

Application



16-pole female connector with mounting flanges in a 19" rack – conductor termination parallel to CAGE CLAMP® actuation

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