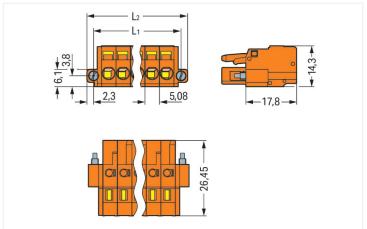
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 4-

pole; Screw flange; 2,50 mm²; orange

https://www.wago.com/231-304/107-000







Dimensions in mm

L1 = (pole no. x pin spacing) + 5.4 mm

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

- L2 = (pole no. x pin spacing) + 10 mm
- Derating Curve

 1-conductor female connector (231-102/026-000) with
 THT male header (231-432/001-000)
 Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "f-st"
 Based on: EN 60512-5-2 / Reduction factor: 0.8

 Current in A

 45

 40

 30

 25

 40

 Ambient operating temperature in "C

 2-, 4-, 6-, 12-, 24-pole

 Conductor rated current
- 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

N	ote	es
---	-----	----

Safety information

Variants:

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.

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: 231-304/107-000 https://www.wago.com/231-304/107-000



Electrical data			
Ratings per	IE	C/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 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Approvals per	UL 1977
Rated voltage	600 V
Rated current	15 A

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

onnection data				
Connection points	4		Connection 1	
otal number of potentials	4		Connection technology	CAGE CLAMP®
lumber of connection types	1		Actuation type	Operating tool
lumber 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 uninsulated ferrule	0.25 2.5 mm²	
		Strip length	8 9 mm / 0.31 0.35 inches	
			Pole number	4
			Conductor entry direction to mating di-	0.0

Physical data	
Pin spacing	5.08 mm / 0.2 inches
Width	30.22 mm / 1.19 inches
Height	14.3 mm / 0.563 inches
Depth	26.45 mm / 1.041 inches

rection

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	Screw flange	

https://www.wago.com/231-304/107-000



Material data	
Note (material data)	Information on material specifications can be found here
	information on material specifications can be found here
Color	orange
Material group	
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	0.124 MJ
Weight	8.4 g

Environmental requirements

Limit temperature range $-60 \dots +85 \,^{\circ}\text{C}$ Processing temperature $-35 \dots +60 \,^{\circ}\text{C}$

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	Вох
Country of origin	DE
GTIN	4044918370271
Customs tariff number	85366990990

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-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



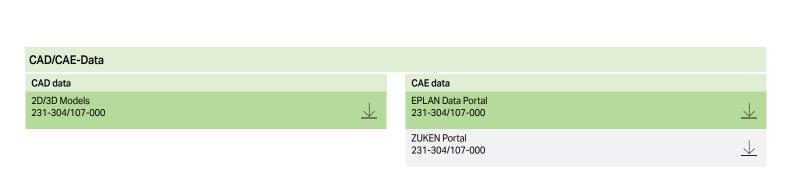
Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

https://www.wago.com/231-304/107-000



Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 231-304/107-000

Documentation Additional Information Technical Section pdf 2027.26 KB





1.2 Optional Accessories

THT male header; 1.2 x 1.2 mm solder pin;

straight; Threaded flange; Pin spacing

5.08 mm; 4-pole; orange

1.2.1.1 Cover

~ p

mm; 4-pole; orange

1.2.1 Cover

Item No.: 231-669
Lockout caps; for covering unused clamping units; orange

THT male header; 1.2 x 1.2 mm solder pin;

angled; Threaded flange; Pin spacing 5.08

https://www.wago.com/231-304/107-000



1.2.2 Ferrule 1.2.2.1 Ferrule Item No.: 216-301 Item No.: 216-321 Item No.: 216-151 Item No.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.25 mm² / AWG 24; Ferrule; Sleeve for 0.25 mm2 / AWG 24; sulated; electro-tin plated; yellow sulated; electro-tin plated; yellow uninsulated; electro-tin plated uninsulated; electro-tin plated; silver-co-Item No.: 216-302 Item No.: 216-322 Item No.: 216-132 Item No.: 216-152 Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-Ferrule; Sleeve for 0.34 mm² / AWG 24; Ferrule; Sleeve for 0.34 mm² / AWG 24; sulated; electro-tin plated; light turquoise sulated; electro-tin plated; light turquoise uninsulated; electro-tin plated uninsulated; electro-tin plated Item No.: 216-241 Item No.: 216-201 Item No.: 216-221 Item No.: 216-141 Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; unsulated; electro-tin plated; electrolytic sulated; electro-tin plated; white sulated; electro-tin plated; white insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 46228. Part 4/09.90: white Item No.: 216-101 Item No.: 216-121 Item No.: 216-242 Item No.: 216-262 Ferrule; Sleeve for 0.5 mm² / AWG 22; un-Ferrule; Sleeve for 0.5 mm² / AWG 22; un-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; ininsulated; electro-tin plated; silver-colosulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic insulated; electro-tin plated; silver-colocopper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN red 46228, Part 4/09.90; gray 46228, Part 4/09.90; gray Item No.: 216-202 Item No.: 216-222 Item No.: 216-142 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / AWG 20; Ferrule; Sleeve for 0.75 mm² / 18 AWG; sulated; electro-tin plated; gray sulated; electro-tin plated; gray uninsulated; electro-tin plated; electrolyuninsulated; electro-tin plated; silver-cotic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 Item No.: 216-122 Item No.: 216-243 Item No.: 216-263 Item No.: 216-203 Ferrule; Sleeve for 0.75 mm² / AWG 20; Ferrule; Sleeve for 1 mm² / AWG 18; insu-Ferrule; Sleeve for 1 mm² / AWG 18; insu-Ferrule; Sleeve for 1 mm² / AWG 18; insuuninsulated; electro-tin plated; silver-colated; electro-tin plated; electrolytic coplated; electro-tin plated; electrolytic coplated; electro-tin plated; red per; gastight crimped; acc. to DIN 46228, per; gastight crimped; acc. to DIN 46228, lored Part 4/09.90: red Part 4/09.90: red Item No.: 216-223 Item No.: 216-103 Item No.: 216-143 Item No.: 216-123 Ferrule; Sleeve for 1 mm2 / AWG 18; insu-Ferrule; Sleeve for 1 mm² / AWG 18; unin-Ferrule; Sleeve for 1 mm² / AWG 18; unin-Ferrule; Sleeve for 1 mm² / AWG 18; uninlated; electro-tin plated; red sulated; electro-tin plated; electrolytic sulated; electro-tin plated; silver-colored sulated; electro-tin plated copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 Item No.: 216-264 Item No.: 216-204 Item No.: 216-224 Item No.: 216-244 Ferrule; Sleeve for 1.5 mm2 / AWG 16; in-Ferrule; Sleeve for 1.5 mm² / AWG 16; in-Ferrule; Sleeve for 1.5 mm² / AWG 16; in-Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black sulated; electro-tin plated; black sulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black 46228, Part 4/09.90; black

Item No.: 216-284

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

Item No.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

Item No.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

Item No.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

https://www.wago.com/231-304/107-000



1.2.3 Insulation stop

1.2.3.1 Insulation stop



Item No.: 231-670

Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; white



Item No.: 231-671

Insulation stop; 0.25 - 0.5 mm2; light gray



Item No.: 231-672

Insulation stop; 0.75 - 1 mm²; dark gray

1.2.4 Jumper

1.2.4.1 Jumper



Item No.: 231-902

Jumper; for conductor entry; 2-way; insulated; gray



Item No.: 231-903

Jumper; for conductor entry; 3-way; insulated; gray

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.: 210-332/508-202

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.: 210-332/508-205

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

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.: 210-332/508-206

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

1.2.6 Strain relief

1.2.6.1 Strain relief housing



Item No.: 232-634

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5.08 mm; 4-pole; orange

https://www.wago.com/231-304/107-000



1.2.7 Test and measurement

1.2.7.1 Testing accessories



Item No.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red



Item No.: 231-661

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

1.2.8 Tool

1.2.8.1 Operating tool



Item No.: 231-231

Combination operating tool; red



Item No.: 209-132
Operating tool; for connecting comb-sty-le jumper bar; made of insulating material; 2-way; natural



Operating tool; made of insulating material; 1-way; for 264 Series (1-/2-way), 280, 281 Series (up to 3-way); natural



Operating tool; made of insulating material; 1-way; loose; red



Item No.: 231-131

Operating tool; made of insulating material; 1-way; loose; white



Operating tool; made of insulating material; 2-way; white

Item No.: 280-433

Item No.: 209-130

Operating tool; made of insulating material; 3-way

Item No.: 280-434

Operating tool; made of insulating material: 4-way

Item No.: 231-159

Operating tool; natural

Installation Notes

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).

https://www.wago.com/231-304/107-000



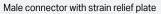
Testing



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







Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Marking



Labeling via direct marking or self-adhesive strips.

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