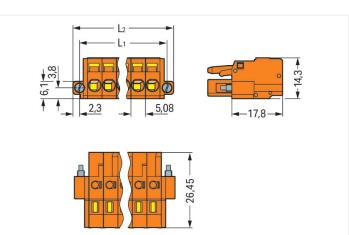
## Data Sheet | Item Number: 231-304/107-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5.08 mm; 4pole; Screw flange; 2,50 mm<sup>2</sup>; orange https://www.wago.com/231-304/107-000





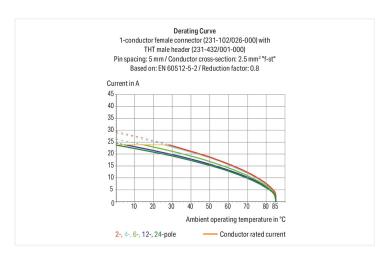


Color: orange

Dimensions in mm

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

L2 = (pole no. x pin spacing) + 10 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

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	IEC/EN 60664-1		
Overvoltage category	Ш	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 mm²	
		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	30.22 mm / 1.19 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
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
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	0.124 MJ
Weight	8.4 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	4044918370271
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	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





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

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 231-304/107-000	EPLAN Data Portal 231-304/107-000
	ZUKEN Portal 231-304/107-000

#### **1** Compatible Products

1.1 System counterpart

## 1.1.1 Male connector/plug



Item No.: 231-634/129-000 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 4-pole; Snap-in flange; 2,50 mm²; orange

(APPEND )

#### Item No.: 231-564/108-000 THT male header; 1.2 x 1.2 mm solder pin; angled; Threaded flange; Pin spacing 5.08 mm; 4-pole; orange



Item No.: 231-634/109-000 1-conductor male connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5.08 mm; 4-pole; Threaded flange; 2,50 mm<sup>2</sup>; oran-



ge

#### Item No.: 231-364/108-000 THT male header; 1.2 x 1.2 mm solder pin; straight; Threaded flange; Pin spacing 5.08 mm; 4-pole; orange



Item No.: 231-534/108-000 THT male header; 1.0 x 1.0 mm solder pin; angled; Threaded flange; Pin spacing 5.08 mm; 4-pole; orange



#### Item No.: 231-334/108-000

THT male header; 1.0 x 1.0 mm solder pin; straight; Threaded flange; Pin spacing 5.08 mm; 4-pole; orange

```
1.2 Optional Accessories
```

## 1.2.1 Cover

1.2.1.1 Cover



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

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

## 1.2.2 Ferrule





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 mm<sup>2</sup> / 0.2 mm<sup>2</sup> "s"; white

<u>ltem No.: 231-671</u> 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



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#### 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.: 210-332/508-204

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

KED; 33-48 (160x); Height of marker strip:

3 mm; Strip length 182 mm; Horizontal

#### Item No.: 210-332/508-206 Marking strips; as a DIN A4 sheet; MAR-

marking; Self-adhesive; white

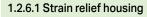
### Item No.: 210-332/508-205 Marking strips; as a DIN A4 sheet; MAR-

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

1.2.6 Strain relief

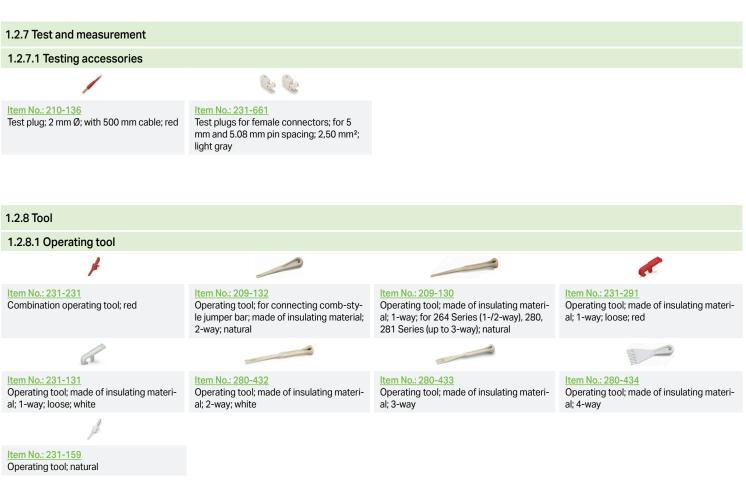




Item No.: 232-634 Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5.08 mm; 4-pole; orange

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





#### 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<sup>®</sup> 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 – 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.

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