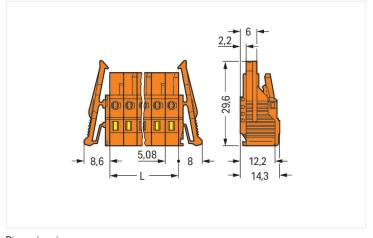
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 7-

pole; Lateral locking levers; 2,50 mm<sup>2</sup>; orange

https://www.wago.com/231-307/037-000

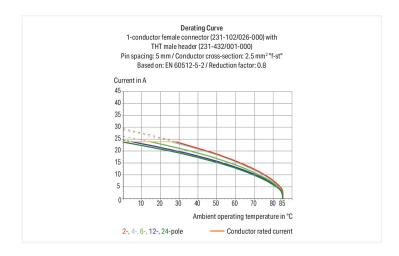






Color: ■ orange

Dimensions in mm
L = pole no. x pin spacing
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

<b>Notes</b>
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Safety information

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.

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/.



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

Connection data				
Connection points	7		Connection 1	
Total number of potentials	7		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 mm <sup>2</sup>
			Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm²
			Strip length	8 9 mm / 0.31 0.35 inches
			Pole number	7

Physical data	
Pin spacing	5.08 mm / 0.2 inches
Width	52.16 mm / 2.054 inches
Height	14.3 mm / 0.563 inches
Depth	29.6 mm / 1.165 inches

rection

Conductor entry direction to mating di-

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	Locking lever

https://www.wago.com/231-307/037-000



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	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.227 MJ
Weight	14.2 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	4044918347150
Customs tariff number	85366990990

### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

### General approvals









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

# Declarations of conformity and manufacturer's declarations



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

https://www.wago.com/231-307/037-000



### Approvals for marine applications



Standard **Certificate Name** ABS

American Bureau of Shipping

19-HG1869876-PDA

# Downloads

### **Environmental Product Compliance**

Compliance Search

**Environmental Product** Compliance 231-307/037-000



### Documentation

**Additional Information** 

Technical Section

03.04.2019

pdf

. 2027.26 KB



### CAD/CAE-Data

CAD data

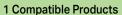
2D/3D Models 231-307/037-000

CAE data

**EPLAN Data Portal** 231-307/037-000

**ZUKEN Portal** 

231-307/037-000



### 1.1 System counterpart

### 1.1.1 Male connector/plug









### Item No.: 231-637

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 7-pole; 2,50 mm<sup>2</sup>; orange

## Item No.: 231-537/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5.08 mm; 7-pole; orange

### Item No.: 231-337/001-000

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 7-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

#### 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 mm<sup>2</sup> / AWG 24: Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; in-Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; in-Ferrule; Sleeve for 0.25 mm<sup>2</sup> / 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 mm<sup>2</sup> / 22 AWG; in-Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; in-Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 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 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 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 4/09.90; white 46228, Part 1/08.92 Item No.: 216-101 Item No.: 216-242 Item No.: 216-262 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic insulated; electro-tin plated; silver-coloinsulated; electro-tin plated; silver-colosulated; electro-tin plated; electrolytic red red copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 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 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; 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 mm<sup>2</sup> / 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

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

#### Item No.: 216-103

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

#### Item No.: 216-143

#### Item No.: 216-123

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

#### Item No.: 216-204

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item No.: 216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item No.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### Item No.: 216-264

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

https://www.wago.com/231-307/037-000



#### 1.2.2.1 Ferrule



#### 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 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated

### Item No.: 216-144

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 14; uninsulated; electro-tin plated; silver-colored

### 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

#### Item No.: 231-671

Insulation stop; 0.25 - 0.5 mm²; light gray

#### Item No.: 231-672

Insulation stop; 0.75 - 1 mm<sup>2</sup>; dark gray

### 1.2.4 Jumper

### 1.2.4.1 Jumper

Item No.: 231-902

lated; gray



Jumper; for conductor entry; 2-way; insu-



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

# Item No.: 231-905

Jumper; for conductor entry; 5-way; insulated; gray

### Item No.: 231-907

Jumper; for conductor entry; 7-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.: 232-637

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5.08 mm; 7-pole; orange

#### 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-style jumper bar; made of insulating material; 2-way; natural

#### Item No.: 209-130

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

#### Item No.: 231-291

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



Item No.: 231-131

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



Item No.: 280-432
Operating tool; made of insulating material; 2-way; white

### Item No.: 280-433

Operating tool; made of insulating material; 3-way

#### Item No.: 280-434

Operating tool; made of insulating material; 4-way



Item No.: 280-435

Operating tool; made of insulating material; 5-way; gray

# Item No.: 280-436

Operating tool; made of insulating material; 6-way

### Item No.: 280-437

Operating tool; made of insulating material; 7-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.

https://www.wago.com/231-307/037-000



## Coding



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

### 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



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!

Current addresses can be found at::  $\underline{www.wago.com}$ 

Page 8/8 Version 22.01.2024