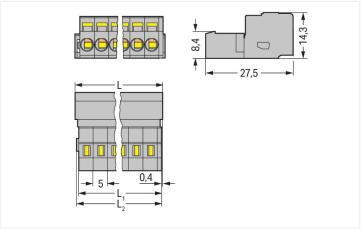
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; 2,50 mm²; gray







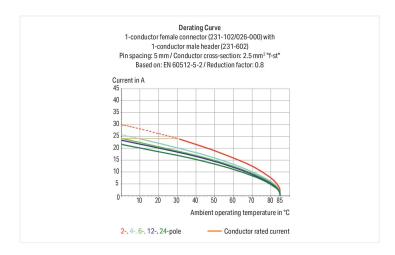


Dimensions in mm

L = (pole no. - 1) x pin spacing + 8.2 mm

L1 = L – 1.7 mm

L2 = L – 1.2 mm



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- For wire-to-wire and board-to-wire connections
- Versions available with snap-in mounting feet or flanges for panel or through-panel mounting
- · With coding fingers

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Safety information 1

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:

Other pole numbers

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 IEC/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	12 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL 1059		
Approvals per	UL 1059	
Rated voltage UL (Use Group B)	300 V	
Rated current UL (Use Group B)	15 A	
Rated voltage UL (Use Group D)	300 V	
Rated current UL (Use Group D)	10 A	

Ratings per UL 1977	
Rated voltage (UL 1977)	600 V
Rated current UL 1977	15 A

Ratings per CSA	
Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data			
Connection points	15	Connection 1	
Total number of potentials	15	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels 1	1	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	15
		Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	78.2 mm / 3.079 inches
Height	14.3 mm / 0.563 inches
Depth	27.5 mm / 1.083 inches

https://www.wago.com/231-615



Mechanical DataVariable codingYesAnti-rotation protectionYes

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

Material Data	
Note (material data)	la farmation and a state of the
	Information on material specifications can be found here
Color	gray
Material group	
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.395 MJ
Weight	22.5 g

Environmental requirements		
Limit temperature range	-60 +100 °C	
Processing temperature	-35 +60 °C	

Commercial data		
PU (SPU)	25 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4044918258661	
Customs tariff number	85366990990	

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
UR Underwriters Laboratories Inc.	UL 1977	E45171

Declarations of conformity and manufacturer's declarations



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

https://www.wago.com/231-615



Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 231-615



Documentation

Additional Information

Technical Section

03.04.2019

pdf

. 1949.09 KB



CAD/CAE-Data

CAD data

2D/3D Models 231-615



CAE data

EPLAN Data Portal 231-615





1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket





1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; 2,50 mm²; gray



Item No.: 232-215/026-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; 2,50 mm²; gray



Item No.: 731-515/031-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; clamping collar; DIN-35 rail/ panel mounting; 2,50 mm²; gray



Item No.: 731-515/008-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; Snap-in mounting feet; 2,50 mm²; gray



Item No.: 231-115/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15pole; 2,50 mm²; gray



Item No.: 231-115/027-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15pole; clamping collar; 2,50 mm²; gray



Item No.: 231-115/031-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; clamping collar; 2,50 mm²; gray



<u>Item No.: 231-115/026-000/054-000</u>

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; direct marking; 2,50 mm²; gray

https://www.wago.com/231-615

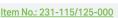


1.1.1 Female connector/socket



Item No.: 231-115/037-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; Lateral locking levers; 2,50 mm²; gray



1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15pole; Snap-in flange; 2,50 mm²; gray

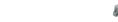
Item No.: 231-115/008-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; Snap-in mounting feet; 2,50 mm²; gray

Item No.: 231-115/102-000

Item No.: 2231-115/008-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; with integrated end plate; 2,50 mm²; gray



Item No.: 2231-115/026-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; 2,50 mm²; gray



Item No.: 2231-115/031-000

1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; clamping collar; 2,50 mm²; gray



1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; Lateral locking levers; 2,50 mm²; gray



1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; Snap-in mounting feet; 2,50 mm²; gray



Item No.: 2231-115/102-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; with integrated end plate; 2,50 mm²; gray



2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; Lateral locking levers; 2,50 mm²; gray



2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 15-pole; with integrated end plate; 2,50 mm²; gray

Item No.: 232-245/005-000/039-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; angled; Locking lever; Pin spacing 5 mm; 15-pole; gray



Item No.: 232-245/005-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; angled; Pin spacing 5 mm; 15-pole; gray

Item No.: 232-145/005-000/039-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; straight; Locking lever; Pin spacing 5 mm; 15-pole; gray

Item No.: 232-145/005-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; straight; Pin spacing 5 mm; 15-pole; gray

Item No.: 232-245

THT female header; angled; Pin spacing 5 mm; 15-pole; 0.6 x 1.0 mm solder pin; gray



Item No.: 232-245/031-000

THT female header; angled; Pin spacing 5 mm; 15-pole; clamping collar; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-245/039-000

THT female header; angled; Pin spacing 5 mm; 15-pole; Locking lever; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-245/047-000

THT female header; angled; Pin spacing 5 mm; 15-pole; Spacer flange; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-145

THT female header; straight; Pin spacing 5 mm; 15-pole; 0.6 x 1.0 mm solder pin; gray



Item No.: 232-145/031-000

THT female header; straight; Pin spacing 5 mm; 15-pole; clamping collar; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-145/039-000

THT female header; straight; Pin spacing 5 mm; 15-pole; Locking lever; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-145/047-000

THT female header; straight; Pin spacing 5 mm; 15-pole; Spacer flange; 0.6 x 1.0 mm solder pin; gray



1.2.1 Coding

1.2.1.1 Coding



Item No.: 231-129

Coding key; snap-on type; light gray

1.2.2 Cover

https://www.wago.com/231-615



1.2.2.1 Cover



Item No.: 231-668

Lockout caps; for covering unused clamping units; gray

1.2.3 Ferrule 1.2.3.1 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: 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; 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 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; 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; 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

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Item No.: 216-103

Item No.: 216-224

sulated; electro-tin plated; black

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-143

Item No.: 216-244 Ferrule; Sleeve for 1.5 mm² / AWG 16; in-

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.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored



Item No.: 216-264

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

https://www.wago.com/231-615



1.2.3.1 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 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

1.2.4 Insulation stop

1.2.4.1 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

1.2.5 Jumper

1.2.5.1 Jumper



Item No.: 231-910

Jumper; for conductor entry; 10-way; insulated; gray

Item No.: 231-902

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

Item No.: 231-903

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

1.2.6 Marking

1.2.6.1 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.: 210-332/500-202

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.: 210-332/500-205

Marking strips; as a DIN $\overline{A4}$ 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

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.: 210-332/500-206

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

1.2.7 Tool

https://www.wago.com/231-615



1.2.7.1 Operating tool

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Item No.: 231-231

Combination operating tool; red



Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 210-657

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Item No.: 209-132

Operating tool; for connecting comb-style jumper bar; made of insulating material; 2-way; natural



Item No.: 210-250

Operating tool; for MCS MINI and MIDI with CAGE CLAMP® connection; red

Item No.: 280-440

Operating tool; made of insulating material; 10-way

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

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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.: 280-438

Operating tool; made of insulating material; 8-way

Item No.: 231-159

Operating tool; natural

Installation Notes

Conductor termination









Coding



https://www.wago.com/231-615



Testing



Installation





Marking



 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$