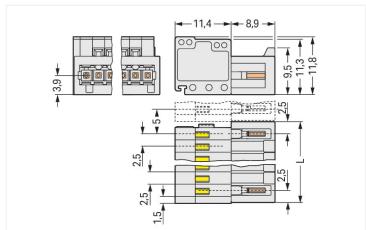
1-conductor male connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 12-pole; 100% protected against mismating; 0,50 mm²; light gray



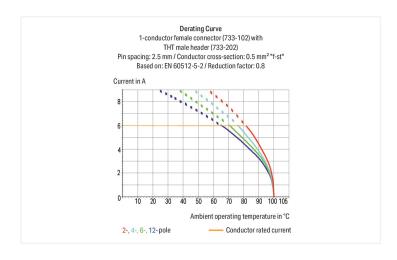
https://www.wago.com/733-212







Dimensions in mm L = (pole no. + 1) x pin spacing



- 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 connections
- 100% protected against mismating
- Coding option available

Notes

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:

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	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	100 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	6 A	6 A	6 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	150 V	-	-
Rated current	4 A	-	-

Approvals per		CSA	
Use group	В	С	D
Rated voltage	150 V	-	-
Rated current	4 A	_	-

nnection data			
onnection points	12	Connection 1	
otal number of potentials	12	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 0.5 mm² / 28 20 AWG
	Fine-stranded conductor	0.08 0.5 mm² / 28 20 AWG	
		Fine-stranded conductor; with insulated ferrule	0.25 0.34 mm²
	Fine-stranded conductor; with uninsulated ferrule	0.25 0.34 mm²	
		Strip length	5 6 mm / 0.2 0.24 inches
	Pole number	12	
		Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	2.5 mm / 0.098 inches
Width	32.5 mm / 1.28 inches
Height	11.8 mm / 0.465 inches
Depth	20.3 mm / 0.799 inches

Mechanical data	
Variable coding	Yes
Anti-rotation protection	Yes

Plug-in connection	
Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes

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Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	light gray
Material group	1
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	0.115 MJ
Weight	6 g

Environmental requirements

-60 ... +100 °C Limit temperature range -35 ... +60 °C Processing temperature

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	PL
GTIN	4044918849623
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals









Approval Standard **Certificate Name** CCA EN 61984 2169534.01 DEKRA Certification B.V. CCA IEC 61984 NL-31141 DEKRA Certification B.V. CSA C22.2 1465035 DEKRA Certification B.V. UL 1977 E45171 **UL International Germany** GmbH UL UL 1059 E45172 **Underwriters Laboratories** Inc.

Declarations of conformity and manufacturer's declarations



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

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Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 733-212



Documentation

Additional Information

Technical Section

03.04.2019

2027.26 KB



CAD/CAE-Data

CAD data

2D/3D Models 733-212



CAE data

EPLAN Data Portal

733-212

ZUKEN Portal 733-212



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket





Item No.: 733-112

1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 12-pole; 100% protected against mismating; 0,50 mm²; light gray

Item No.: 733-112/037-000

1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 12-pole; 100% protected against mismating; Lateral locking levers; 0,50 mm²; light gray

https://www.wago.com/733-212



1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 733-331

Coding key; snap-on type; black

Item No.: 733-330 Coding key; snap-on type; white

1.2.2 Ferrule

1.2.2.1 Ferrule



sulated; electro-tin plated; yellow

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-151

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

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Item No.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-132

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

Item No.: 216-152

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

1.2.3 Strain relief

1.2.3.1 Strain relief plate



Item No.: 734-129

Strain relief plate; for female and male connectors; 25 mm wide; 1 part; Pin spacing 3.5 mm; light gray

1.2.4 Test and measurement

1.2.4.1 Testing accessories



Item No.: 735-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

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1.2.5 Tool

1.2.5.1 Operating tool



Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



Item No.: 210-251

Operating tool; for MCS MICRO and MINI with CAGE CLAMP® connection; yellow



Item No.: 233-335

Operating tool; green



<u>Item No.: 233-331</u> Operating tool; insulated; yellow



Item No.: 733-130

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



Item No.: 733-191 Operating tool; made of insulating material; 1-way; loose; yellow Item No.: 233-332

Operating tool; made of insulating material; white

Installation Notes

Mismating protection



Male headers and female connectors are 100% protected against mismating. Only mating halves with the same pole number can be connected.

Conductor termination



Inserting conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Conductor termination via screwdriver (233-335) – parallel to CAGE CLAMP® actuation



Conductor termination via operating tool (733-191)





Conductor termination via operating tool (210-251)

Coding



Coding a male header – fitting coding key

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Marking



Strain relief



Strain relief plates for factory or in-the-field assembly

Testing



Testing via 1 mm \emptyset test pin (735-500), touch contact.

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