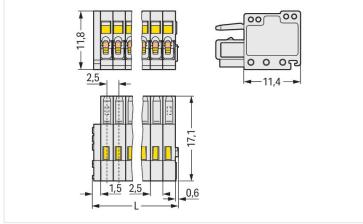
1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 2-pole; 100% protected against mismating; 0,50 mm²; light gray



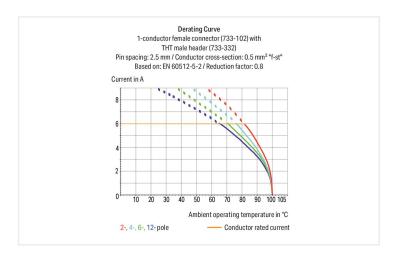
https://www.wago.com/733-102





Dimensions in mm

L = (pole no. x pin spacing) + 2.1 mm



https://www.wago.com/733-102



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
 Strain relief plates for factory and field assembly
- 100% protected against mismating
- Coding option available

Notes	
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 UL
Ratings per	IEC/EN 60664-1	Approvals per
Nominal voltage (III/3)	100 V	Rated voltage UL (l
Rated impulse voltage (III/3)	2.5 kV	Rated current UL (U
Rated voltage (III/2)	160 V	
Rated impulse voltage (III/2)	2.5 kV	
Nominal voltage (II/2)	320 V	
Rated surge voltage (II/2)	2.5 kV	
Rated current	6 A	
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2	

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A

Ratings per CSA	
Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A

Connection data			
Connection points	2	Connection 1	
Total number of potentials	2	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	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 mm ²	
	Fine-stranded conductor; with uninsulated ferrule	0.25 0.34 mm ²	
	Strip length	5 6 mm / 0.2 0.24 inches	
	Pole number	2	
	Conductor entry direction to mating direction	0°	

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Physical data

 Pin spacing
 2.5 mm / 0.098 inches

 Width
 7.1 mm / 0.28 inches

 Height
 11.8 mm / 0.465 inches

 Depth
 17.1 mm / 0.673 inches

Mechanical data

Variable coding Yes
Anti-rotation protection Yes

Plug-in connection

Contact type (pluggable connector)

Connector (connection type)

Mismating protection

Female connector/socket

for conductor

Yes

Material data

Note (material data) Information on material data can be found here Color light gray Material group Insulation material Polyamide (PA66) Flammability class per UL94 V0 Chrome-nickel spring steel (CrNi) Clamping spring material Contact material Copper alloy Contact plating Tin Fire load 0.02 MJ Weight 1 g

Environmental requirements

Limit temperature range $-60 \dots +100 \, ^{\circ}\text{C}$ Processing temperature $-35 \dots +60 \, ^{\circ}\text{C}$

Commercial data

Product Group 3 (Multi Conn. System) eCl@ss 10.0 27-44-03-09 27-44-03-09 eCl@ss 9.0 ETIM 8.0 EC002638 ETIM 7.0 EC002638 PU (SPU) 200 Stück Packaging type Box Country of origin VKOrg Germany DE GTIN 4044918293938 Customs tariff number VKOrg Germany 85366990990

https://www.wago.com/733-102



Approvals and certificates

General approvals







Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 61984	2169534.01
CCA DEKRA Certification B.V.	IEC 61984	NL-31141
CSA DEKRA Certification B.V.	C22.2	1465035
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

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 733-102



Documentation

Additiona	l Information
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pdf 1949.09 KB **Technical Section** 03.04.2019

https://www.wago.com/733-102



CAD/CAE-Data

CAD data

2D/3D Models 733-102



CAE data

EPLAN Data Portal 733-102



ZUKEN Portal 733-102



1 Compatible products

1.1 System counterpart

Item no.: 733-202

0,50 mm²; light gray

1.1.1 Male connector/plug



CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 2-

pole; 100% protected against mismating;

A FEET

Item no.: 733-202/032-000 1-conductor male connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 2pole; 100% protected against mismating; Strain relief plate; 0,50 mm²; light gray



Item no.: 733-362/105-604/997-406

THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; in tape-and-reel packaging; Pin spacing 2.5 mm; 2-pole; black



Item no.: 733-362/105-604

THR male header; $0.8 \times 0.8 \, \text{mm}$ solder pin; angled; 100% protected against mismating; Pin spacing $2.5 \, \text{mm}$; 2-pole; black



Item no.: 733-332/105-604/997-446

1-conductor male connector; CAGE

THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; in tape-and-reel packaging; Pin spacing 2.5 mm; 2-pole; black

Item no.: 733-332/105-604

THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 2.5 mm; 2-pole; black



THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Pin spacing 2.5 mm; 2-pole; light gray



Item no.: 733-332

THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 2.5 mm; 2-pole; light gray

1.2 Optional accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



Item no.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; 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



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



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

1.2.2 Marking

1.2.2.1 Marking strip

Item no.: 210-331/250-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item no.: 210-331/250-207

Marking strips; as a DIN A4 sheet; MAR-KED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item no.: 210-331/250-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item no.: 210-331/250-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

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1.2.3 Strain relief

1.2.3.1 Strain relief plate



Item no.: 734-127

Strain relief plate; 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

1.2.5 Tool

1.2.5.1 Operating tool



Item no.: 210-719

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



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

Item no.: 233-335

Operating tool; green

Item no.: 233-331

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)

https://www.wago.com/733-102



Conductor termination



Conductor termination via operating tool (210-251)

Coding



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

Marking



Installation



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

Testing



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

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