1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 9-pole; 100% protected against mismating; Lateral locking levers; 0,50 mm²; light gray

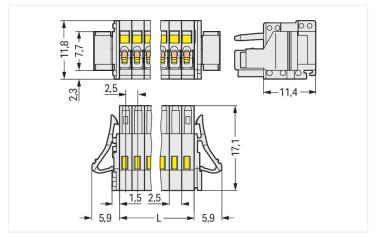


https://www.wago.com/733-109/037-000

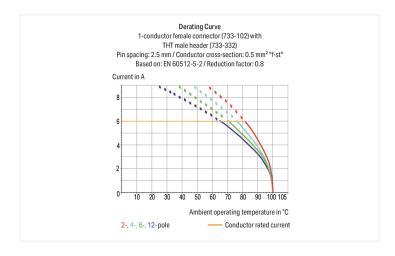


Color: Ilight gray

Similar to illustration



Dimensions in mm L = pole no. x pin spacing



- 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

N	_	1	_	_
IN	O	т	e	S

Safety information

Variants:

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.

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/.

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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	_	_

ion data			
oints	9	Connection 1	
entials	9	Connection technology	CAGE CLAMP®
ion types	1	Actuation type	Operating tool
	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 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	9
	Conductor entry direction to mating di-	0°	

Physical data	
Pin spacing	2.5 mm / 0.098 inches
Width	34.3 mm / 1.35 inches
Height	11.8 mm / 0.465 inches
Depth	17.1 mm / 0.673 inches

rection

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	Yes
Locking of plug-in connection	Locking lever

https://www.wago.com/733-109/037-000



Material data	
Note (material data)	Information on material
	specifications can be found here
Color	light gray
Material group	I
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	0.081 MJ
Weight	4.3 g

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

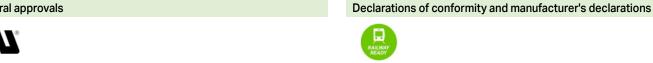
Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 8.0	EC002638
ETIM 7.0	EC002638
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454215651
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals



Approval Standard **Certificate Name** UR UL 1059 E45172 Underwriters Laboratories

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

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Approvals for marine applications



Standard **Certificate Name** Approval BV IEC 60998 11915/D0 BV

Bureau Veritas S.A.

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 733-109/037-000

Documentation

Additional Information

Technical Section

03.04.2019

. 2010.85 KB

CAD/CAE-Data

CAD data

2D/3D Models 733-109/037-000

CAE data

ZUKEN Portal 733-109/037-000

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug





THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Pin spacing 2.5 mm; 9-pole; light gray

Item No.: 733-339

THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 2.5 mm; 9-pole; light gray



1-conductor male connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 9pole; 100% protected against mismating; 0,50 mm²; light gray

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https://www.wago.com/733-109/037-000



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

Item No.: 216-131

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

<u>Item No.: 216-322</u>

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



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

1.2.3 Strain relief

1.2.3.1 Strain relief plate



Item No.: 734-128

Strain relief plate; for female and male connectors; 12.5 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

Item No.: 210-719

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



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® ac-



Conductor termination via operating tool (733-191)



Conductor termination via operating tool (210-251)

Coding



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

https://www.wago.com/733-109/037-000



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.

Locking system







Locking levers prevent accidental disconnection.

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