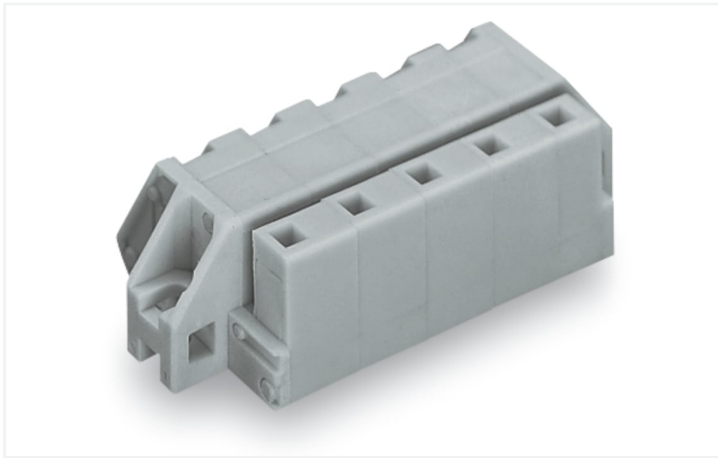


Data Sheet | Item Number: 731-533/031-047

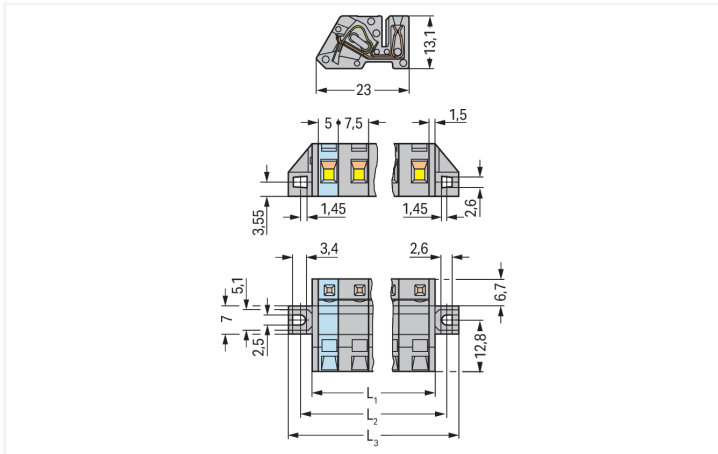
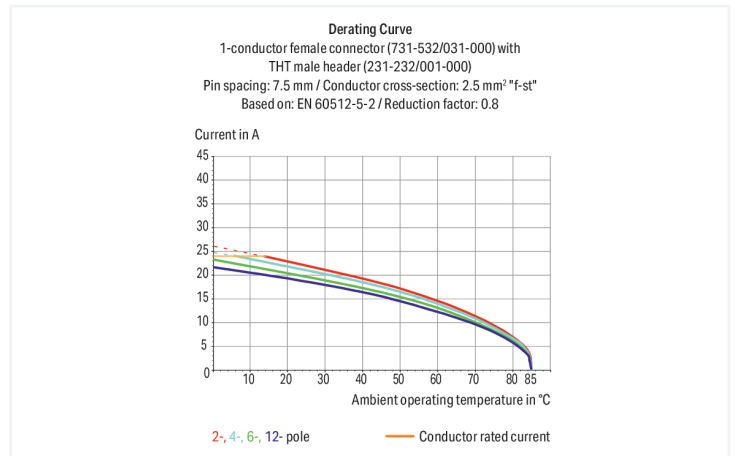
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 3-pole; clamping collar; DIN-35 rail/panel mounting; direct marking; 2,50 mm²; gray

<https://www.wago.com/731-533/031-047>



Color: ■ gray

Similar to illustration



Dimensions in mm

$L1 = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 3 \text{ mm}$
 $L2 = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 8.8 \text{ mm}$
 $L3 = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 14.8 \text{ mm}$

Female connector, 731 Series, with 7.5 mm pin spacing

This female connector (item number 731-533/031-047) simplifies electrical installations. Strip lengths must be between 7 and 8 mm when connecting conductors to this female connector. Featuring one conductor terminal along with CAGE CLAMP®, this product outperforms the competition. Our proven universal connection known as CAGE CLAMP® leads the way when it comes to connection technology and electrical interconnections. This female connector is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm².

The contact surface is coated with tin.



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		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		500 V	630 V	1000 V
Rated impulse withstand voltage		6 kV	6 kV	6 kV
Rated current		12 A	12 A	12 A
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		15 A	-	10 A
Ratings		UL 1977		
Approvals per		UL 1977		
Rated voltage		600 V		
Rated current		15 A		
Approvals per		CSA		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		15 A	-	10 A

Connection Data		
Number of connection types	1	
Number of levels	1	
Connection 1		
Connection technology	CAGE CLAMP®	
Actuation type	Operating tool	
Actuation direction 1	Operation parallel 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 mm²	
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²	
Strip length	7 ... 8 mm / 0.28 ... 0.31 inches	
Conductor entry direction to mating direction	90 °	

Physical data	
Pin spacing	7.5 mm / 0.295 inches

Mechanical data	
Variable coding	No
Direct ground contact to DIN-rail/drilled hole/housing	No
Design	angled; mountable
Anti-rotation protection	Yes



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

Material data		
Note (material data)	Information on material specifications can be found here	
Color	gray	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Clamping spring material	Chrome-nickel spring steel (CrNi)	
Contact material	Copper alloy	
Contact Plating	Tin	
Fire load	0.112 MJ	
Weight	5.8 g	

Environmental requirements		
Limit temperature range	-60 ... +85 °C	
Processing temperature	-35 ... +60 °C	

Commercial data		
PU (SPU)	50 pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4050821881452	
Customs tariff number	85366990990	

Product Classification		
UNSPSC	39121409	
ETIM 10.0	EC002638	
ECCN	NO US CLASSIFICATION	

Environmental Product Compliance		
RoHS Compliance Status	Compliant,No Exemption	

Approvals / Certificates

Approvals for marine applications



Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	IEC 60998	11915/E0 BV
DNV DNV GL SE	-	TAE000016Z
PRS Polski Rejestr Statków	-	TE/1095/880590/23



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
731-533/031-047

↓

Documentation

Additional Information

Technical Section03.04.2019pdf2027.26 KB

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



Item No.: 731-603

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 3-pole; 2,50 mm²; gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



Item No.: 216-131

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



Item No.: 216-132

Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated

1.2.2 Installation

1.2.2.1 Mounting accessories



Item No.: 231-295

Screw with nut



Item No.: 231-195

Screw with nut; M2x12; for fixing element



Item No.: 209-147

Self-tapping screw



Item No.: 231-194

Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø



1.2.3 Marking

1.2.3.1 Marking strip



Item No.: 210-331/750-202
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/750-020
Marking strips; as a DIN A4 sheet; MARKED; 1-20 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.4 Strain relief

1.2.4.1 Strain relief housing



Item No.: 232-663
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 7.5 mm; 3-pole; gray

1.2.5 Test and measurement

1.2.5.1 Testing accessories



Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red



Item No.: 231-662
Test plugs for female connectors; for 7.5 mm and 7.62 mm pin spacing; 2,50 mm²; light gray

1.2.6 Tool

1.2.6.1 Operating tool



Item No.: 231-231
Combination operating tool; red



Item No.: 210-720
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.: 280-440
Operating tool; made of insulating material; 10-way; white



Item No.: 209-130
Operating tool; made of insulating material; 1-way; for 264 Series (1-1/2-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; white



Item No.: 280-434
Operating tool; made of insulating material; 4-way; white



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; white



Item No.: 280-437
Operating tool; made of insulating material; 7-way; white



Item No.: 280-438
Operating tool; made of insulating material; 8-way; white



Item No.: 231-159
Operating tool; natural

Installation Notes

Application



Angled female connector – used as through-panel connector; termination ports and operating slots are located outside the housing – panel thickness up to 2 mm.

Application



Angled female connector – a male header with straight solder pins is used for horizontal PCB mounting in narrow housings.