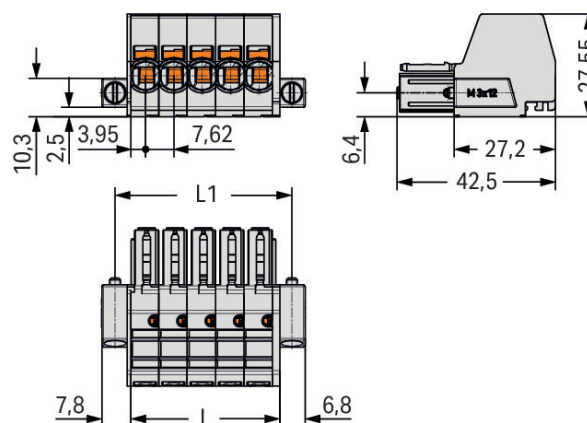
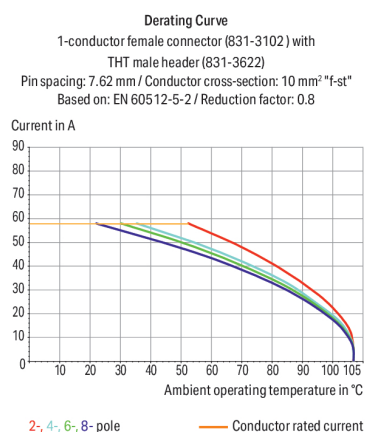
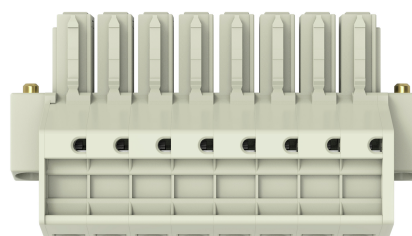
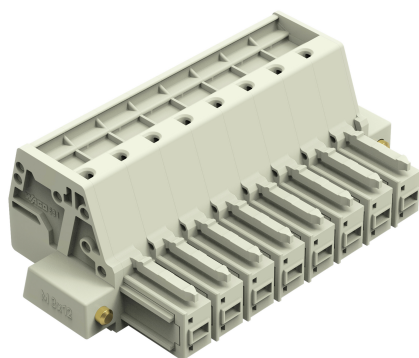
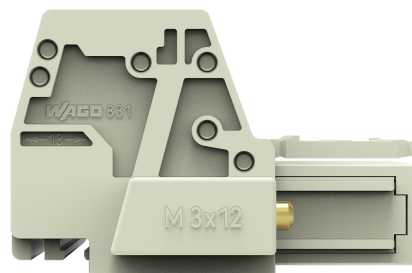
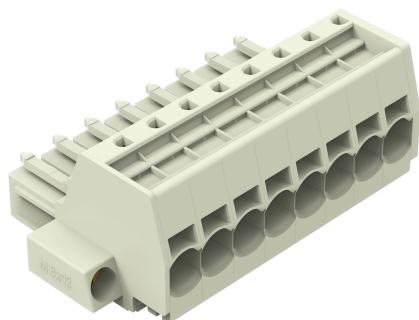




Dimensions in mm
 $L = \text{pole no.} \times \text{pin spacing} + 1.9 \text{ mm}$
 $L1 = L + 7.5 \text{ mm}$

Female connector, 831 Series, operating tool

Our female connector (item number 831-3108/107-000) ensures effortless electrical installations. Conductors can only be connected to this female connector if their strip length is between 13 and 15 mm. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product delivers reliable performance. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. Dimensions: (77.5 x 27.6 x 42.5) mm (width x height x depth). Depending on the conductor type, this female connector is ideal for conductor cross sections ranging from 0.5 mm² to 10 mm².

Safety Information

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
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated impulse withstand voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A

Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	42 A	-

C	D
600 V	-
42 A	-

Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	41 A	-

Clamping units	8
Total number of potentials	8
Number of connection types	1
Number of levels	1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Actuation direction 1	Operation parallel to conductor entry
Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm²
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches
Pole number	8
Conductor entry direction to mating direction	0 °

Pin spacing	7.62 mm / 0.3 inches
Width	77.5 mm / 3.050 inches
Height	27.6 mm / 1.087 inches
Depth	42.5 mm / 1.673 inches



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	Screw flange

Material data	
Note (material data)	Information on material specifications can be found here
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Material of the additional spring for socket contact	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.804 MJ
Weight	62.2 g

Environmental requirements	
Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C

Commercial data	
PU (SPU)	12 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966779714
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121409
ETIM 9.0	EC001284
ETIM 10.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-61360/M1
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-129589 REV.1
UR Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 831-3108/107-000	
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Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	
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CAD/CAE-Data

CAD data

2D/3D Models 831-3108/107-000	
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CAE data

ZUKEN Portal 831-3108/107-000	
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1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



Item No.: 831-3208/109-000
1-conductor male connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 8-pole; 100% protected against mismatching; Threaded flange; 10,00 mm²; light gray



Item No.: 831-3628/108-000
THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 7.62 mm; 8-pole; light gray



Item No.: 831-3608/108-000
THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 7.62 mm; 8-pole; light gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



Item No.: 216-101
Ferrule; Sleeve for 0.5 mm² / AWG 22; unin-
sulated; electro-tin plated; silver-colored

Item No.: 216-102
Ferrule; Sleeve for 0.75 mm² / 18 AWG; unin-
sulated; electro-tin plated; silver-colored

1.2.2 Strain relief

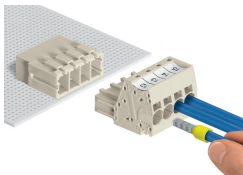
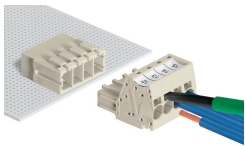
1.2.2.1 Strain relief plate



Item No.: 831-506
Strain relief plate; for female and male con-
nectors; 51 mm wide; 1 part; Pin spacing 7.62
mm; light gray

Installation Notes

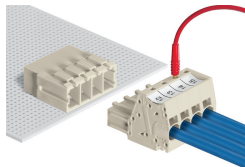
Conductor termination



Inserting fine-stranded conductors via (5.5 x
0.8) mm screwdriver.

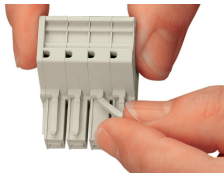
Solid and ferruled conductors are terminat-
ed by simply pushing them into unit.

Testing



Testing with 2 mm Ø test plug.

Coding



Break or cut off coding pin from female con-
nector.

Marking



Direct marking of female and male connectors



MCS MAXI male and female connectors can also be marked via Mini-WSB or WMB markers.