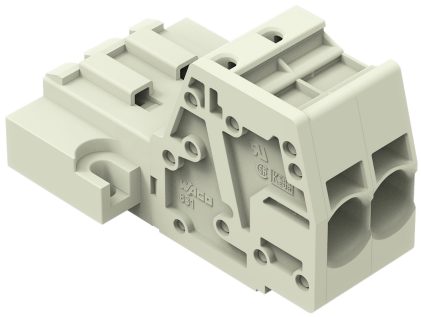
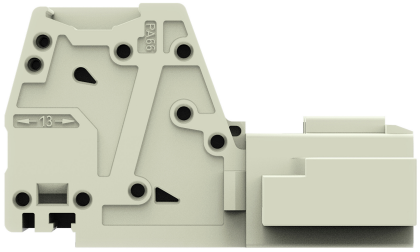
Data Sheet | Item Number: 831-3202/109-000

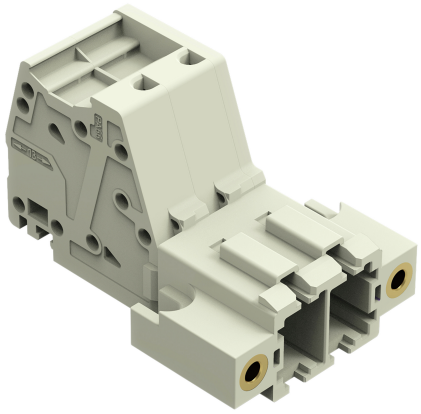
1-conductor male connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismating; Threaded flange; 10,00 mm²; light gray

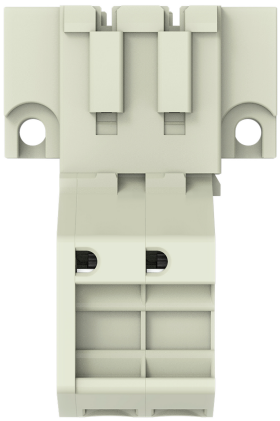
https://www.wago.com/831-3202/109-000

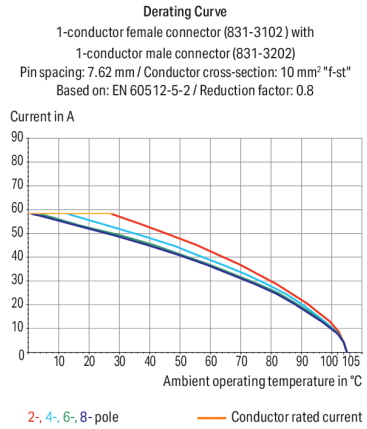


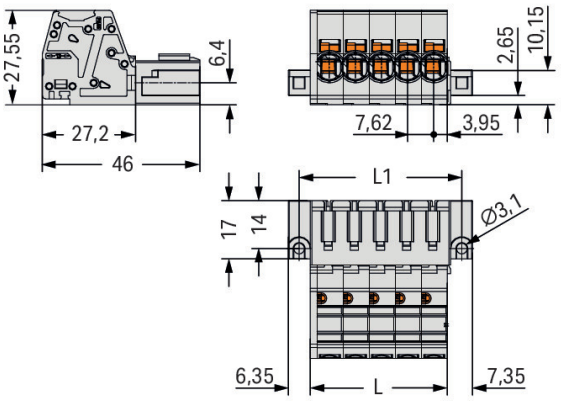


Color: light gray









Dimensions in mm
L = pole no. x pin spacing + 1.9 mmL1 = L + 7.5 mm

Male connector, 831 Series, operating tool

Our male connector (item number 831-3202/109-000) ensures effortless electrical installations. Ensure that the strip lengths are between 13 and 15 mm when connecting conductors to this male connector. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: 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: (30.8 x 27.6 x 46) mm (width x height x depth). Depending on the type of conductor, this male connector is suitable for conductor cross sections ranging from 0.5 mm² to 10 mm².

Tin is used for coating the contact surfaces.

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 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	800 V	1000 V	1000 V
Rated impulse withstand voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	42 A	-

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

Connection Data

Clamping units	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

Connection 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	2
Conductor entry direction to mating direction	0 °

Continued on next page

Physical data

Pin spacing	7.62 mm / 0.3 inches
Width	30.8 mm / 1.214 inches
Height	27.6 mm / 1.087 inches
Depth	46 mm / 1.811 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
Locking of plug-in connection	Threaded flange

Material data

Note (material data)	Information on material specifications can be found here
Color	light 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	Electrolytic copper (E_{Cu})
Contact Plating	Tin
Fire load	0.315 MJ
Weight	17.1 g

Environmental requirements

Limit temperature range	-60 … +105 °C
Processing temperature	-35 … +60 °C

Commercial data

PU (SPU)	24 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966091618
Customs tariff number	85366930000

Product Classification

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

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,No Exemption
SCIP notification number (Austria)	21f474d3-02f9-48e3-8139-cbb8fa55576f
SCIP notification number (Belgium)	7c6162be-dedb-4a7e-8214-287e6b5aad71
SCIP notification number (Bulgaria)	b6bd10aa-4e1a-4c2a-a8f6-3ba68ebb56e2
SCIP notification number (Czech Republic)	d0756671-70df-4c99-8d64-2b352d954c6e
SCIP notification number (Denmark)	491976c0-dcea-44d2-9700-5762e388823b
SCIP notification number (Finland)	e3e4fbab-99bb-40c4-a2f4-daf90fd57af6
SCIP notification number (France)	12979cbf-1a8d-4086-a428-6d6d2bec8c6d
SCIP notification number (Germany)	7ca88f55-d812-4ee6-84ab-97f4a6e1abc0
SCIP notification number (Hungary)	128bffc0-6952-4130-a812-5c937c2bba19
SCIP notification number (Italy)	7aff3bf9-5886-4d92-bced-1e228e00b28b
SCIP notification number (Netherlands)	b5fa249b-39d3-4af6-a138-19b2014336a8
SCIP notification number (Poland)	1b7ad89f-7058-4d36-bbe7-f708c3b72c30
SCIP notification number (Romania)	cd72f818-4ff4-496a-b581-ecd80e20721f
SCIP notification number (Sweden)	0c6e182f-afbd-471c-8c3f-bc9c5e65d380

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	71-116057
UR Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
831-3202/109-000

Documentation

Additional Information

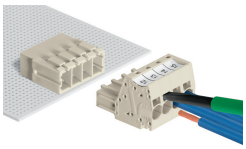
Technical Section	03.04.2019	pdf 2027.26 KB

CAD/CAE-Data

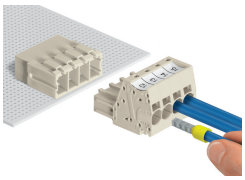
CAD data	CAE data
2D/3D Models 831-3202/109-000	ZUKEN Portal 831-3202/109-000

Installation Notes

Conductor termination

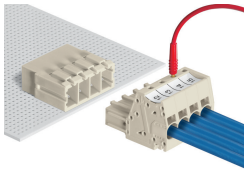


Inserting fine-stranded conductors via (5.5 x 0.8) mm screwdriver.



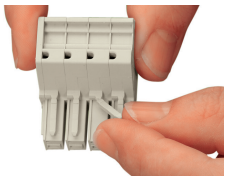
Solid and ferruled conductors are terminated by simply pushing them into unit.

Testing

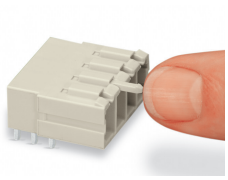


Testing with 2 mm Ø test plug.

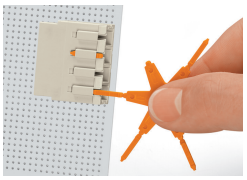
Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.

Marking

Direct marking of female and male connectors

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