

## Data sheet | Item number: 831-3104/107-000

1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Screw flange; 10,00 mm²; light gray

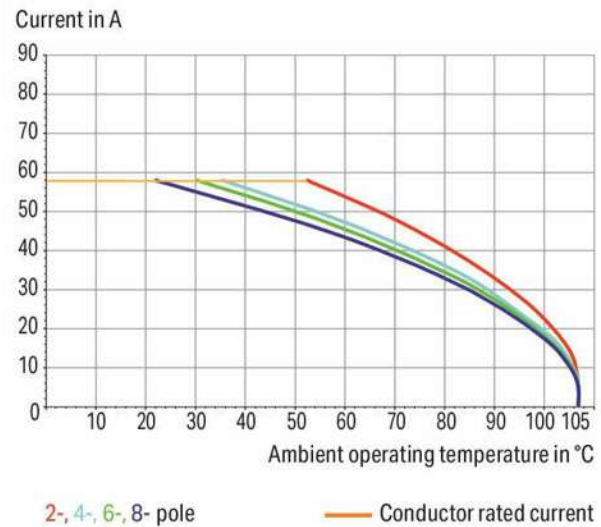
[www.wago.com/831-3104\\_107-000](http://www.wago.com/831-3104_107-000)



Color:

### Derating Curve

1-conductor female connector (831-3102) with  
THT male header (831-3622)  
Pin spacing: 7.62 mm / Conductor cross-section: 10 mm² "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

WAGO Corporation  
Germantown, WI 53022  
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Dimensions in mm  
L = pole no. x pin spacing +1.9 mm  
L1 = L + 7.5 mm

### Item description

- Universal connection for all conductor types
- Push-in termination of solid or ferruled conductors
- Integrated test ports for 2 mm Ø test plugs
- 600 V UL per UL 1059
- 100 % protected against mismatching
- Coding via coding fingers

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## Data 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. 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

### IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	800 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Nominal voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV
Rated current	41 A
Legend (ratings)	(III / 2) △ Overvoltage category III / Pollution degree 2

### UL Approvals

Approvals per	UL 1059
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	42 A

### CSA Approvals

Approvals per	CSA
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	41 A

## Connection data

Total number of potentials	4
Number of connection types	1

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Number of levels	1
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## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
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 inch
Number of poles	4
Conductor entry direction to mating direction	0°

## Physical data

Pin spacing	7.62 mm / 0.3 inch
Width	47.0 mm / 1.850 inch
Height	27.6 mm / 1.087 inch
Depth	42.5 mm / 1.673 inch

## 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

Color	light gray
Material group	I
Insulation material	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 <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.297 MJ
Weight	33.5 g

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## Environmental requirements


Limit temperature range	-60 ... +105 °C
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## Commercial data


PU (SPU)	24 Stück
Country of origin	PL
GTIN	4055144038255
Customs tariff number	8536694040

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-116057

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

## Counterpart



### Item no.831-3204/109-000

1-conductor male connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Threaded flange; 10,00 mm²; light gray

[www.wago.com/831-3204/109-000](http://www.wago.com/831-3204/109-000)



### Item no.831-3604/108-000

THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against mismatching; Threaded flange; Pin spacing 7.62 mm; 4-pole; light gray

[www.wago.com/831-3604/108-000](http://www.wago.com/831-3604/108-000)

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**Item no.831-3624/108-000**

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismating; Threaded flange; Pin spacing 7.62 mm; 4-pole; light gray

[www.wago.com/831-](http://www.wago.com/831-3624/108-000)

[3624/108-000](http://www.wago.com/831-3624/108-000)

## Downloads

### Documentation

#### Additional Information

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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## CAD files

### CAD data

2D/3D Models 831-3104/107-000	URL	Download
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### CAE data

ZUKEN Portal 831-3104/107-000	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 831-3104/107-000	URL	Download
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1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismating; Screw flange; 10,00 mm²; light gray

## Installation Notes

### Conductor termination

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



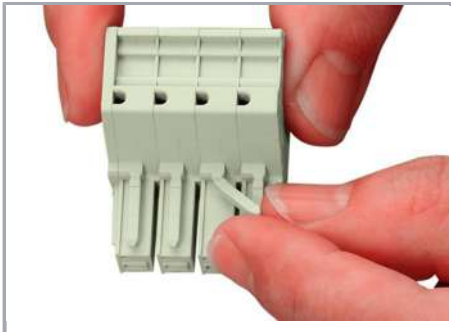
Solid and ferruled conductors are terminated by simply pushing them into unit.

#### Testing



Testing with 2 mm Ø test plug.

#### Coding



Break or cut off coding pin from female connector.

#### Marking

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Direct marking of female connectors and male connectors



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

## Product family

### MCS MAXI 6

[Show all products from the family](#)

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

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