

# WINSTA® MAXI

## Technical Data, 5-Pole

### 831 Series



#### Connection Data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.5 ... 6 mm <sup>2</sup> / 20 ... 8 AWG
Stranded conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor	0.5 ... 6 mm <sup>2</sup> / 20 ... 8 AWG
Strip length	13 mm / 0.51 inch (see also packaging or instructions)

#### Electrical Data

Ratings per*	IEC/EN 60664-1
Rated voltage (III / 3)	
5-pole	400 V
Rated surge voltage (III / 3)	
5-pole	6 kV
Rated current	
5-pole	35 A
Approvals per	UL 1059
Rated voltage (UL)	600 V
Rated current (UL)	42 A

Clearances and creepage distances	≥ 5.5 mm to exposed surfaces (Protection Category II)
Contact resistance	approx. 1 mΩ contact resistance approx. 0.25 mΩ contact transition socket / plug
Number of potentials	
5-pole	5
Number of connection points	
5-pole	5

#### Mechanical Data

Mating cycles	100, without resistive load 50, with resistive load $I_N = 35$ A (6 mm <sup>2</sup> )
Mating forces	20 ... 70 N (depending on pole number)
Unmating forces	20 ... 70 N (depending on pole number) when unlocked
Retention forces	> 80 N (locked)
Cable diameter	
5-pole	13 ... 18 mm Ø
Protection type	IP2xC (with strain relief housing) Note: These compact connectors are not designed for use in open, easily accessible areas.
Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... ≤ +85 °C PVC cable ≤ +70 °C (incl. halogen-free) Insulating parts ≤ +105 °C

#### Mismatching Protection

All WINSTA® components are 100 % protected against mismatching in terms of:

- Plugging a different number of poles
- Plugging when rotated by 180°
- Plugging when laterally staggered
- Plugging one pole

#### Locking Levers

Sockets are factory-equipped with locking levers to ensure plugs and sockets are securely locked.

#### Material Data

Insulating parts	Polyamide (PA 66), halogen-free
Contacts	Copper or copper alloy, surface-treated
Clamping spring	Stainless steel (Cr-Ni)
Flammability class (per UL 94)	V0

\*(III / 3) ≙ Overvoltage category III / Pollution degree 3

 Approvals, see [www.wago.com](http://www.wago.com)

 Coding overview, see page 372

Standards/Approvals

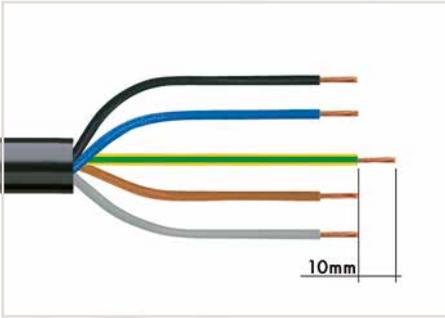
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- UL
  - CCA certificate
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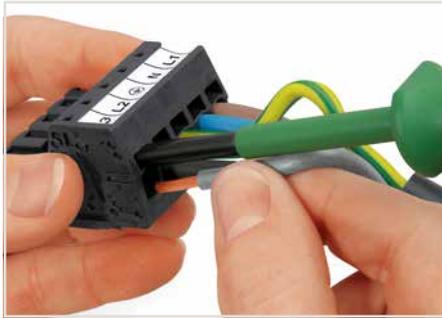
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## Description and Installation

### 831 Series



The following lengths are recommended:  
 1. Strip length, outer insulation = 80 mm  
 2. Strip length = 13 mm  
 3. Extended ground conductor = 10 mm



To terminate fine-stranded conductors, open the clamping unit via screwdriver (5.5 mm blade width) and insert a stripped conductor until it hits backstop.



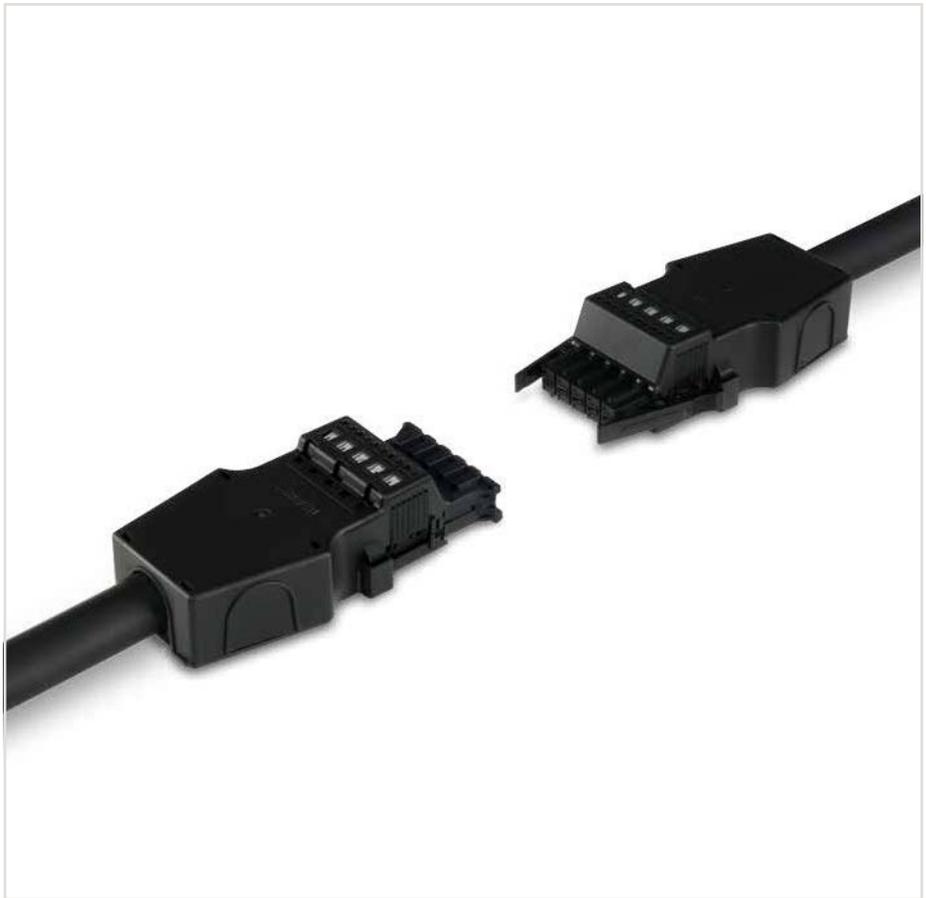
The printed marking of the connector is clearly visible in the openings of the strain relief housing.



Unscrew base of strain relief housing.



Snap wired connector onto the base.



Tighten strain relief using a screwdriver.



Wired connector fitted in base of strain relief housing.



Latch the top of the strain relief housing.

6

## WINSTA® MAXI

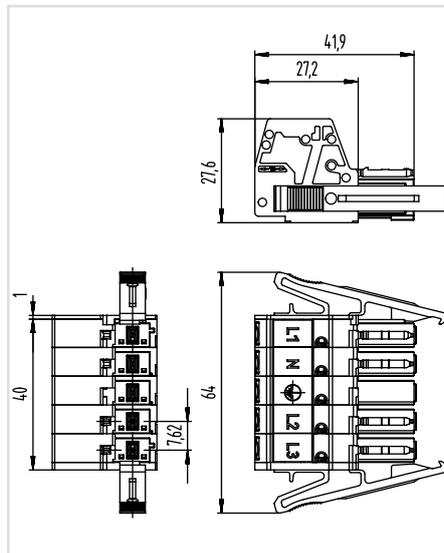
### Sockets and Plugs, 5-Pole

### 831 Series

Conductor range, solid and fine-stranded	0.5 ... 6 mm <sup>2</sup> / 20 ... 8 AWG
Conductor range, stranded	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Rated voltage	400 V
Rated current	35 A
Strip length	13 mm / 0.51 inch



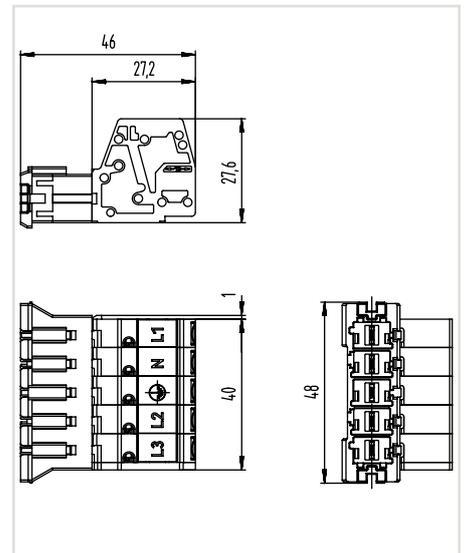
Dimensions (in mm):



Socket, with strain relief housing,  
for one cable, 13 ... 18 mm cable diameter,  
80 mm strip length

Color	Item No.	Pack. Unit
● black	831-3105/1019-004	5
○ white	831-3105/1019-050	5

Dimensions (in mm):



Plug, with strain relief housing,  
for one cable, 13 ... 18 mm cable diameter,  
80 mm strip length

Color	Item No.	Pack. Unit
● black	831-3205/1020-004	5
○ white	831-3205/1020-050	5

Approvals,  
see [www.wago.com](http://www.wago.com)

Coding overview,  
see page 372

Coding	Marking	Color
A	L1 N ⊕ L2 L3	● black
A	L1 N ⊕ L2 L3	○ white