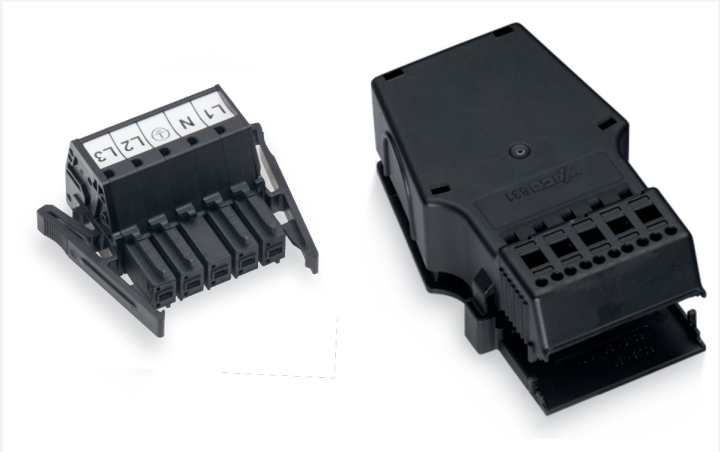
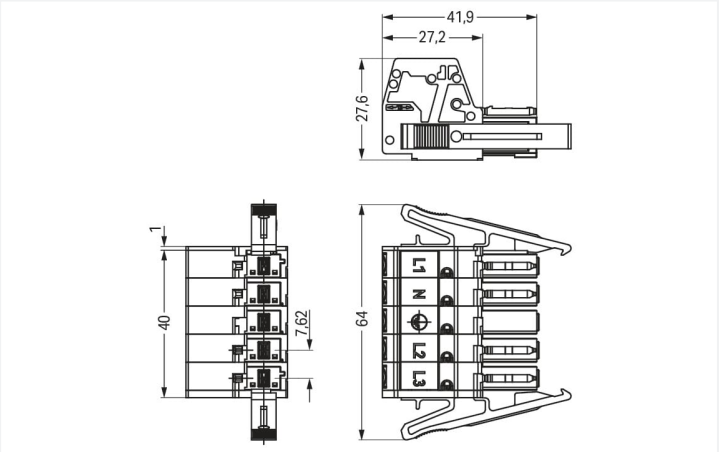
Data Sheet | Item Number: 831-3105/1019-004

Socket; with strain relief housing; 5-pole; Cod. A; 6,00 mm²; black

https://www.wago.com/831-3105/1019-004



Color: ■ black



Dimensions in mm

Female connector/socket *WINSTA*® MAXI 5-pole

The *WINSTA*® MAXI female connector/socket with protection type IP20 supports fast, reliable installation. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow resource-efficient, error-free installation in numerous applications. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector is protected in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). That results in the fact that users' fingers will never come into contact with electrified elements. The *WINSTA*® MAXI pluggable installation connector with A coding in black or white is normally used for general mains applications in power distribution. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 35 A – as a result it is also suitable for powerful loads. *WINSTA*® MAXI stands for more power. The 831 Series Pluggable Connectors are especially suitable for feeding in power and help eliminate voltage drop for long cable.

WINSTA® MAXI solutions for your electrical installation – protected against mismating and maintenance-free

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, more reliable, and error-free. Using this pre-assembled system reduces assembly times and errors during installation at the construction site. Choose durability and quality – with protection against mismating from WAGO makes the electrical installation of electrical components significantly easier.

- protection against mismating eliminates errors
- products perfectly tailored to your requirements guarantee safe use
- with A coding for a great number of applications
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	35 A	-	-

General information	
Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket

Connection data

Clamping units	5
Total number of potentials	5

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	6 mm² / 8 AWG
Solid conductor	0.5 … 6 mm² / 20 … 8 AWG
Stranded conductor	0.5 … 4 mm² / 20 … 12 AWG
Fine-stranded conductor	0.5 … 6 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 mm / 0.51 inches
Pole number	5
Connectable sheathed cable diameter	13 … 18 mm
Conductor entry direction to mating direction	0 °

Physical data

Pin spacing	7.62 mm / 0.3 inches
Width	64 mm / 2.52 inches
Height	27.6 mm / 1.085 inches
Depth	41.9 mm / 1.65 inches

Mechanical data

Use	General mains applications
Coding	A
Variable coding	No
Marking	L1 N ⏚ L2 L3
Potential marking	L1 N ⏚ L2 L3
Mating force of a plug-in connection	approx. 30 … 70 N (depending on number of poles)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 30 … 70 N (depending on pole number)
Number of mating cycles	100, without resistive load
Protection type	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All *WINSTA*® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Locking lever	Can be retrofitted
Locking of plug-in connection	Locking lever
Strain relief	Strain relief housing

Continued on next page

Material data

Note (material data)	Information on material specifications can be found here
Color	black
Cover 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 or copper alloy; surface-treated
Contact Plating	Tin
Fire load	1.52 MJ
Connector color	black
Strain relief color	black
Printing color of strain relief	white
Weight	76.3 g

Environmental requirements

Processing temperature	-5 … +40 °C
Continuous operating temperature	-35 … +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 8.0	EC002560
PU (SPU)	5 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143500739
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
KEMA/KEUR DEKRA Certification B.V.	EN 61535	71-123230
UR Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

 Continued on next page

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 831-3105/1019-004

Documentation

Bid Text

831-3105/1019-004	19.02.2019	xml 3.05 KB
831-3105/1019-004	06.12.2016	doc 24.00 KB

CAD/CAE-Data

CAD data

2D/3D Models 831-3105/1019-004

CAE data

ZUKEN Portal 831-3105/1019-004

1 Compatible Products

1.1 System counterpart

1.1.1 Distribution box

Item No.: 899-631/149-000
Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI, MAXI; black

1.1.2 Male connector/plug

Item No.: 831-3205/1020-004
Plug; with strain relief housing; 5-pole; Cod. A; 6,00 mm²; black

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule

Item No.: 216-284
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-286
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-287
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-288
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

1.2.2 Test and measurement

1.2.2.1 Testing accessories

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

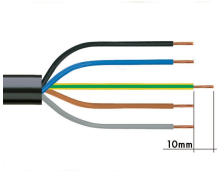
1.2.3 Tool

1.2.3.1 Operating tool

Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination

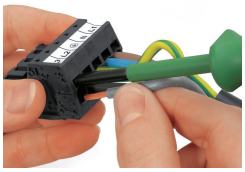


The following lengths are recommended:

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 the backstop.

Installation

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

 Continued on next page

Installation

Latch the top of the strain relief housing.

Marking

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