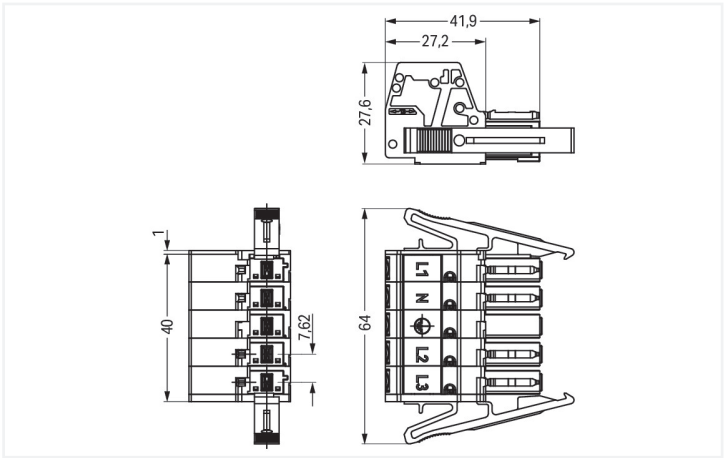
Data Sheet | Item Number: 831-3105/1019-050

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

https://www.wago.com/831-3105/1019-050

Color: white



Dimensions in mm

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

For power and signal transmission: The *WINSTA*® MAXI female connector/socket rated current 35 A. WAGO pluggable installation connectors are used when specifications repeat or are distributed on a defined grid, for example for installing grid lighting or flush-mount lighting. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The pluggable installation connector offers touch-proof protection with live components 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!)). Thanks to the color coding and mechanical A coding of *WINSTA*® MAXI pluggable installation

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connectors, you can clearly distinguish different circuits. This pluggable installation connector is designed for a voltage load of up to 35 A. Thus, it can also be used for high power loads. With *WINSTA*® MAXI, you can implement the feed-in of energy, for example since solutions from this product line can be used with a nominal current up to 35 A, making them especially powerful.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Choose durability and quality – with protection type IP20 from WAGO makes the installation of electrical components significantly easier.

- effective protection against mismating
- saves time, since no wiring is required at the construction site
- with A coding for use in many general mains applications
- ready to install and use immediately
- convenient installation and commissioning

Notes

General safety information	1. Only to be used by a qualified electrician or by a person electrically instructed for the task (EIP per DIN VDE 0105-100). 2. Do not install while energized or under load. 3. Use only for its intended purpose. 4. Observe applicable national regulations, standards and directives. 5. Observe the technical specifications of the products. 6. Ensure correct polarity assignment. 7. Do not use damaged or contaminated components. 8. Observe conductor types, conductor cross-sections, strip lengths and cable diameters. 9. Insert conductors up to the stop. 10. Use only with locking lever and strain relief. 11. Use original accessories only. **To be sold only with installation instructions!**

Electrical data

Ratings per IEC/EN 60664-1

Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated impulse withstand 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 °

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Physical data

Pin spacing	7.62 mm / 0.3 inches
Width	63.78 mm / 2.511 inches
Height	27.55 mm / 1.085 inches
Depth	51.2 mm / 2.016 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

Material data

Note (material data)	Information on material specifications can be found here
Color	white
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	1.284 MJ
Connector color	white
Strain relief color	white
Weight	74.2 g

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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

PU (SPU)	5 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143500753
Customs tariff number	85366990990

Product Classification

UNSPSC	39121421
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 10.0	EC002560
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61535	71-123230
UR Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0

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	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
831-3105/1019-050

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Documentation

Bid Text

831-3105/1019-050	19.02.2019	xml 3.05 KB	
831-3105/1019-050	06.12.2016	doc 23.50 KB	

CAD/CAE-Data

CAD data

2D/3D Models
831-3105/1019-050

CAE data

ZUKEN Portal
831-3105/1019-050

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

Item No.: 831-3205/1020-050
Plug; with strain relief housing; 5-pole; Cod. A; 6,00 mm²; white

1.2 Optional Accessories

1.2.1 Test and measurement

1.2.1.1 Testing accessories

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

1.2.2 Tool

1.2.2.1 Operating tool

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

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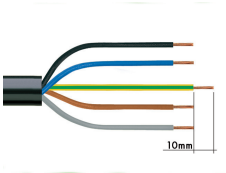
Installation Notes

Conductor termination

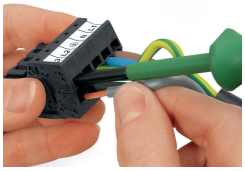


The following lengths are recommended:

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

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.

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