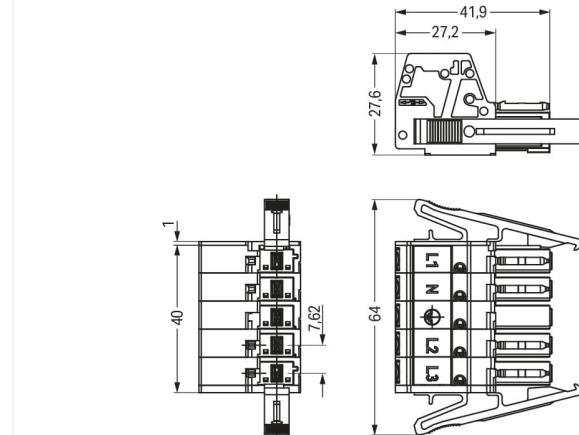


Color: white



Dimensions in mm

Female connector/socket W/INSTA® MAXI with protection type IP20

For signal and power transmission: The W/INSTA® MAXI female connector/socket A coding. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in next to no time. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector is protected against ingress by solid objects 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 W/INSTA® MAXI pluggable installation connectors, you can clearly distinguish different circuits. This pluggable installation connector is designed for a load of up to 35 A. Thus, it can also be used for high power loads. W/INSTA® MAXI offers a conductor cross-section up to 6 mm<sup>2</sup>. That makes solutions from this product line especially suitable for applications that draw high power.

W/INSTA® MAXI solutions for your electrical installation – protected against mismatching and maintenance-free

The W/INSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, even more reliable, and error-free. Using this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Now you can also reduce installation costs without compromising safety and quality: with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- products perfectly tailored to your requirements guarantee safe use
- with A coding for a great number of uses
- exact dimensions
- quick replacement of defective units during ongoing operation

## Electrical data

Ratings per			IEC/EN 60664-1			General information	
Overvoltage category	III	III	II			Note on contact resistance	
Pollution degree	3	2	2			approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket	
Nominal voltage	400 V	-	-				
Rated surge voltage	6 kV	-	-				
Rated current	35 A	-	-				

**Connection data**

Clamping units	5	<b>Connection 1</b>	
Total number of potentials	5	Connection technology	
		Push-in CAGE CLAMP®	
		Actuation type	Operating tool Push-in
		Nominal cross-section	6 mm <sup>2</sup> / 8 AWG
		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
		Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm <sup>2</sup>
		Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm <sup>2</sup>
		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

## Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
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	1.52 MJ
Connector color	white
Strain relief color	white
Weight	74.2 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	4055143500753
Customs tariff number	85366990990

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1466354	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
KEMA/KEUR DEKRA Certification B.V.	EN 61535	71-123230	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UR Underwriters Laboratories Inc.	UL 1059	E45172			

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance  
831-3105/1019-050



## 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 mm<sup>2</sup>; white

### 1.2 Optional Accessories

#### 1.2.1 Ferrule

##### 1.2.1.1 Ferrule



[Item No.: 216-284](#)

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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

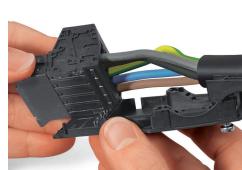


The following lengths are recommended:

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



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.