

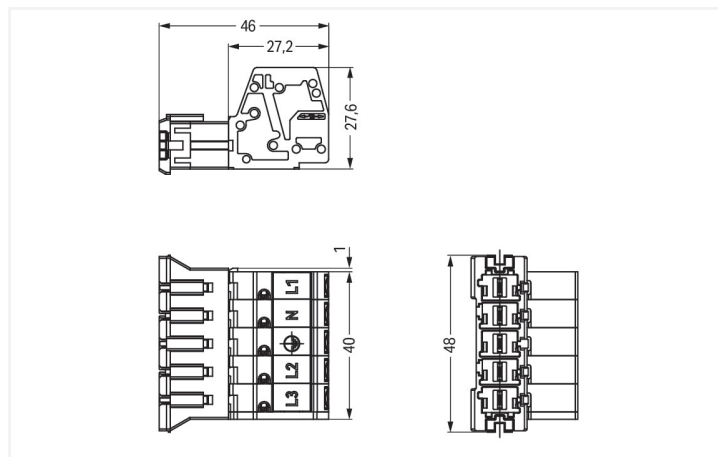
Data Sheet | Item Number: 831-3205/1020-004

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

<https://www.wago.com/831-3205/1020-004>



Color: ■ black



Dimensions in mm

Male connector/plug *WINSTA*® MAXI with protection type IP20

The *WINSTA*® MAXI male connector/plug with protection type IP20 supports fast, reliable installation. Whether 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 no time flat. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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!)). 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 provide information about possible domains of use and applications. This product has a current rating of 35 A – therefore it is also suitable for high power loads. *WINSTA*® MAXI features a conductor cross-section up to 6 mm². That makes solutions from this product line suited above all to application domains that rely on high capacity.

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

The *WINSTA*® 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 reduces time spent on assembly and errors during installation at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with strain relief hosting from WAGO.

- effective protection against mismatching
- saves time, since no wiring is required at the construction site
- suitable for any application
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

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 fer- rule	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 direc- tion	0 °
Coding	A

Physical data	
Pin spacing	7.62 mm / 0.3 inches
Width	48 mm / 1.89 inches
Height	29 mm / 1.142 inches
Depth	46 mm / 1.811 inches

Mechanical data	
Use	General mains applications
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)	Male connector/plug
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	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	1.307 MJ
Connector color	black
Strain relief color	black
Printing color of strain relief	white
Weight	68.7 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	
PU (SPU)	5 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143500746
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121402
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		Declarations of conformity and manufacturer's declarations									
											
Approval	Standard	Certificate Name									
KEMA/KEUR DEKRA Certification B.V.	EN 61535	71-123230									
UR Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
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UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-									

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 831-3205/1020-004	

Documentation

Bid Text			
831-3205/1020-004	19.02.2019	xml 3.01 KB	
831-3205/1020-004	06.12.2016	doc 24.00 KB	

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 831-3205/1020-004 	ZUKEN Portal 831-3205/1020-004 



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 831-3105/1019-004

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

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 831-500

Coding pin carrier with six coding pins; or-
ange

1.2.2 Marking

1.2.2.1 Marker

Item No.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; blue

Item No.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; gray

Item No.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; green

Item No.: 2009-145/000-012

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; orange

Item No.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; red

Item No.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; violet

Item No.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; white

Item No.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700
pieces on roll; stretchable 5 - 5.2 mm; plain;
snap-on type; yellow



Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretch-
able; plain; snap-on type; blue

Item No.: 248-501/000-007

Mini-WSB marking card; as card; not
stretchable; plain; snap-on type; gray

Item No.: 248-501/000-023

Mini-WSB marking card; as card; not
stretchable; plain; snap-on type; green

Item No.: 248-501/000-017

Mini-WSB marking card; as card; not stretch-
able; plain; snap-on type; light green



Item No.: 248-501/000-012

Mini-WSB marking card; as card; not stretch-
able; plain; snap-on type; orange

Item No.: 248-501/000-005

Mini-WSB marking card; as card; not
stretchable; plain; snap-on type; red

Item No.: 248-501

Mini-WSB marking card; as card; not
stretchable; plain; snap-on type; white

Item No.: 248-501/000-002

Mini-WSB marking card; as card; not stretch-
able; plain; snap-on type; yellow



Item No.: 793-5501/000-006

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; blue

Item No.: 793-5501/000-007

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; gray

Item No.: 793-5501/000-023

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; green

Item No.: 793-5501/000-017

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; light green



Item No.: 793-5501/000-012

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; orange

Item No.: 793-5501/000-005

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; red

Item No.: 793-5501/000-024

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; violet

Item No.: 793-5501

WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; white





1.2.2.1 Marker



Item No.: 793-5501/000-002
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 793-501/000-007
WMB marking card; as card; not stretchable; plain; snap-on type; gray



Item No.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green



Item No.: 793-501/000-017
WMB marking card; as card; not stretchable; plain; snap-on type; light green



Item No.: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow



Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.2.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.3 Mounting adapter

1.2.3.1 Mounting accessories



Item No.: 831-137
Mounting adapter; for DIN-35 rail/panel mounting; 3 parts; Pin spacing 7.62 mm; light gray

1.2.4 Strain relief

1.2.4.1 Strain relief plate



Item No.: 831-505
Strain relief plate; for female and male connectors; 30 mm wide; 1 part; Pin spacing 7.62 mm; light gray

1.2.5 Test and measurement

1.2.5.1 Testing accessories



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

1.2.6 Tool

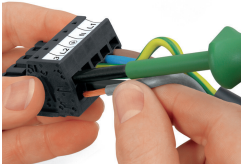
1.2.6.1 Operating tool



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.