Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black





,		
ı	Color:	

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Dimensions in mm
Overall length when mated

Item description

Female connector/socket WINSTA® MINI with protection against mismating

For signal and power transmission: The WINSTA® MINI female connector/socket rated current 16 A. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in a large number of possible uses. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector offers protection against contact with wires or tools if they are smaller than 1 mm in accordance with protection type IP40. Thanks to the color coding and mechanical A coding of WINSTA® MINI pluggable installation connectors, you can clearly distinguish different circuits. Especially if only limited space is available, our smallest pluggable connection system, WINSTA® MINI, consistently displays its strengths. It saves space, and, with Push-in CAGE CLAMP® spring pressure connection

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technology, it also can be installed quickly, since the installation is low-maintenance and can be performed without screw connections. The strip length is 32 mm.

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

The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with WINSTA® MINI pluggable installation connectors with protection type IP40 from WAGO.

- protection against mismating eliminates errors
- consistent IP40 protection
- with A coding for use in a large number of general mains applications
- ready to install and use immediately
- rapid, structured electrical installation

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	16 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL 1977

Note for the US market	Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	14 A

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General information

Note on contact resistance	approx. 1 m Ω of contact resistance
	approx. $0.25 \text{ m}\Omega$ contact transition plug/socket

Connection data

Connection points	2
Total number of potentials	2

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
	Push-in
Nominal cross-section	1.5 mm ² / 16 AWG
Solid conductor	0.25 1.5 mm² / 22 16 AWG
Solid conductor; push-in termination	0.75 1.5 mm² / 20 16 AWG
Stranded conductor	0.25 1 mm² / 22 18 AWG
Fine-stranded conductor	0.25 1.5 mm² / 22 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm ² / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	2
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	32 mm

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	15.6 mm / 0.614 inches
Height	13.2 mm / 0.52 inches
Depth	61.6 mm / 2.425 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No

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LN
LN
approx. 20 70 N (depending on pole number)
Locked: > 80 N
Unlocked: approx. 20 70 N (depending on pole number)
200, without resistive load
IP40

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
Note on locking system	All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket).
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	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin

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Fire load	0.216 MJ
Weight	5.7 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

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454231729
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71- 123231
	CCA DEKRA Certification B.V.	IEC 61535	NL-85020
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

Declarations of conformity and manufacturer's declarations

			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		

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	UK-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		
Approvals	for marine applications		
			Certificate
Logo	Approval	Additional Approval Text	name
	ABS	Steel Vessel Rules	19-
	American Bureau of Shipping		HG1869855-
			PDA
	DNV GL	-	TAE00001Z6
	Det Norske Veritas, Germanischer Lloyd		
	LR	EN 61535	08/20047
	Lloyds Register		(E2)

Counterpart

Item no.890-112	www.wago.com/890-112
Plug; with strain relief housing; 2-pole; 1,50 mm²; black	
Item no.890-1615 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/890-1615
Item no.890-1606 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/890-1606
Item no.890-1634 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black	www.wago.com/890-1634
Item no.890-212 Plug; 2-pole; Cod. A; 1,50 mm²; black	www.wago.com/890-212
Item no.890-1636 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; f flying leads; black	or www.wago.com/890-1636
Item no.890-212/342-000	www.wago.com/890-212/342-
Plug; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black	000
Item no.890-812 Plug for PCBs; straight; 2-pole; Cod. A; black	www.wago.com/890-812
Item no.890-712 Snap-in plug; 2-pole; Cod. A; 1,50 mm²; black	www.wago.com/890-712
Item no.890-812/011-000 Plug for PCBs; angled; 2-pole; Cod. A; black	www.wago.com/890-812/011- 000
Item no.891-8992/005-101 pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m 1,00 mm²; black	www.wago.com/891-8992 1; /005-101
Item no.891-8992/205-101 pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 r 1,00 mm²; black	www.wago.com/891-8992 n; /205-101

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Required accessories

Locking lev	/eis
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Locking	system	
	Item no.: 890-111	www.wogo.com/000.111
	Locking lever; for flying leads; for tool operation; black	www.wago.com/890-111
	Item no.: 890-101	
	Locking lever; for manual operation; black	www.wago.com/890-101
	Item no.: 890-121	1000 1010
	Locking lever; for manual operation; white	www.wago.com/890-121
	Item no.: 890-131	(000,404
	Locking lever; for flying leads; for tool operation; white	www.wago.com/890-131

Optional accessories

Tool	
------	--

Operating	g tool	
	Item no.: 210-719	
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
	Item no.: 890-382	
	Operating tool; 2-way; green	www.wago.com/890-382
Cover		
Cover		
	Item no.: 897-2001	
	Protective cap; Type1; for sockets and plugs; PVC; red	www.wago.com/897-2001
Mounting		
Mounting	accessories	
	Item no.: 890-310	www.waga.com/000.210
	Mounting carrier; 2- to 5-pole; for flying leads; black	www.wago.com/890-310
	Item no.: 890-311	
	Mounting carrier; 2- to 5-pole; for flying leads; white	www.wago.com/890-311

Downloads

Documentation

Bid Text

890-102 X81 - Datei	2019 年2月19 日	xml 3.1 kB	Download
890-102	2015 年6月8日	doc	Download

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doc - Datei 23.6 kB

CAD/CAE-Data

CAD data

2D/3D Models 890-102	URL	Download
CAE data		
EPLAN Data Portal 890-102	URL	Download
WSCAD Universe 890-102	URL	Download
ZUKEN Portal 890-102	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-102 URL Download Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

Installation Notes

Conductor terminat	ion		

- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm

To terminate fine-stranded conductors, open the clamping unit via screwdriver – 2.5 mm blade width – and insert a stripped conductor until it hits the backstop.

Terminate solid conductors by simply pushing them in.

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To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.	To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.
Terminate solid conductors by simply pushing them in.	Terminate solid conductors by simply pushing them in.
Latch the wired connector into the base of the strain relief housing.	Push down strain relief clamp by hand.
J. Control of the con	
Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.	Latch the top of the strain relief housing.
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www.wago.com/890-102

Data sheet | Item number: 890-102



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

Product family

WINSTA® MINI
Show all products from the family

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