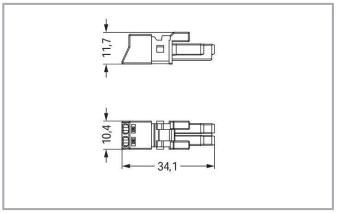
Socket; 2-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-222







Item description

Female connector/socket WINSTA® MINI with protection against mismating

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MINI female connector/socket 2-pole. WAGO pluggable installation connectors are useful when specifications repeat or are distributed on a specific grid, for example for installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. Thanks to the color coding and mechanical A coding of WINSTA® MINI pluggable installation connectors, you can clearly distinguish different circuits. WINSTA® MINI satisfies the demand for miniaturisation. Our smallest pluggable connection system is very good for lights, for instance, since as a result of LED technology; due to complex systems, these offer less and less space for the connection technology.

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 consequently faster, even more reliable, and error-free. Using this pre-assembled system decreases time spent on assembly and

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errors during installation at the construction site. Now you can also reduce installation expenses without compromising safety and quality: with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismating
- compact design for conductors with a cross-section up to 1.5 mm²
- suitable for any application
- exact dimensions
- convenient installation and commissioning

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

General information

Note on contact resistance	approx. 1 m Ω of contact resistance
	approx. 0.25 m Ω contact transition plug/socket

Connection data

Connection points	2
Total number of potentials	2

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
	Push-in
Nominal cross-section	1.5 mm² / 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°

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	10.4 mm / 0.409 inches
Height	11.7 mm / 0.461 inches
Depth	34.1 mm / 1.343 inches

Mechanical Data

Application	General mains applications	
Coding	A	
Variable coding	No	
Marking	LN	
Potential marking	LN	
Mating force of a plug-in connection	approx. 20 70 N (depending on pole number)	
Retention force of a plug-in connection Locked: > 80 N		
Unmating force of a plug-in connection Unlocked: approx. 20 70 N (depending on pole number)		
Number of mating cycles	200, without resistive load	
Protection type	IP20; IP40 with strain relief housing	

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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).	

Material data

Note (material data)

Information on material specifications can be found here

0-1	
Color	white
Cover color	gray
Material group	l
Insulation material	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	0.058 MJ
Weight	2.6 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

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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
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	PL
GTIN	4055143548465
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

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

Declarations of conformity and manufacturer's declarations

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

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We are always happy to take your call at +49 (571) 887-44222.

Cartificata





Approvals	tor mar	ine applic	cations

Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
DNV	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
CO LR THE AMERICAN SCHOOL	LR Lloyds Register	EN 61535	08/20047 (E2)

Counterpart

in Ser	Item no.890-132 Plug; with strain relief housing; 2-pole; 1,50 mm²; white	www.wago.com/890-132
	Item no.890-1665 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	www.wago.com/890-1665
	Item no.890-1656 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/890-1656
	Item no.890-1684 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	www.wago.com/890-1684
	Item no.890-232 Plug; 2-pole; 1,50 mm²; white	www.wago.com/890-232
do de	Item no.890-1686 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white	www.wago.com/890-1686

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Item no.890-732 Snap-in plug; 2-pole; Cod. A; 1,50 mm²; white www.wago.com/890-732

Item no.890-832 Plug for PCBs; straight; 2-pole; Cod. A; white		www.wago.com/890-832	
S. J.	Item no.890-832/011-000 Plug for PCBs; angled; 2-pole; Cod. A; white	www.wago.com/890-832/011- 000	
+6 =2 === 3 = ×	Item no.891-8992/005-102 pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m; 1,00 mm²; white	www.wago.com/891-8992 /005-102	
9/2	Item no.891-8992/205-102 pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m; 1,00 mm²; white	www.wago.com/891-8992 /205-102	

Required accessories

- .		1	
C.t	rain	ro	lıΔt

Strain relief	housing	
60	Item no.: 890-502 Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 8.2 mm; 30 mm; black	www.wago.com/890-502
	Item no.: 890-502/342-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 8.2 mm; 17.5 mm; black	www.wago.com/890-502 /342-000
10/1	Item no.: 890-512 Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 8.2 mm; 30 mm; white	www.wago.com/890-512
	Item no.: 890-512/342-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 8.2 mm; 17.5 mm; white	www.wago.com/890-512 /342-000
_ocking leve	rs	
Locking sys	stem	
1000	Item no.: 890-111 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
1.00	Item no.: 890-121 Locking lever; for manual operation; white	www.wago.com/890-121

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Item no.: 890-131

Locking lever; for flying leads; for tool operation; white

www.wago.com/890-131

Optional accessories

М	Oυ	ınti	ing
	U		

Mounting accessories



Item no.: 890-310

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

Cover

Cover



Item no.: 897-2001

Protective cap; Type1; for sockets and plugs; PVC; red

www.wago.com/897-2001

Tool

Operating 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

Downloads

Documentation

Bid Text

890-222 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
890-222	2015 Jun 8	doc	Download
doc - Datei		23.0 kB	

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CAD/CAE-Data

CAD data

2D/3D Models 890-222	URL	Download
CAE data		
EPLAN Data Portal 890-222	URL	Download
WSCAD Universe 890-222	URL	Download
ZUKEN Portal 890-222	URL	Download
Asset Administration Shell		
Asset Administration Shell 890-222	URL	Download

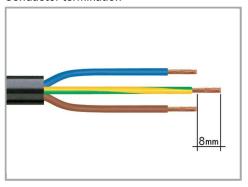
Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-222 URL Download Socket; 2-pole; Cod. A; 1,50 mm²; white

Installation Notes

Conductor termination



- 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

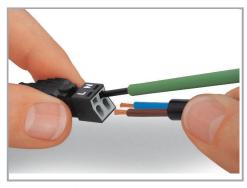
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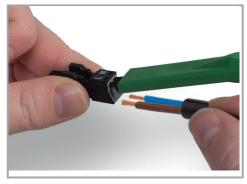
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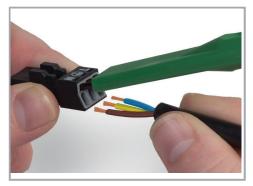
To terminate fine-stranded conductors, open the clamping unit via screwdriver – 2.5 mm blade width – and insert a stripped conductor until it hits the backstop.

Terminate solid conductors by simply pushing them in.



To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.



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.

Installation

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.



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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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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