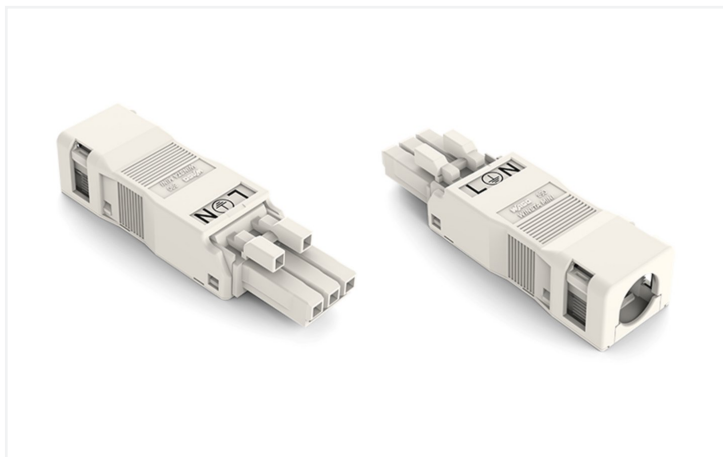


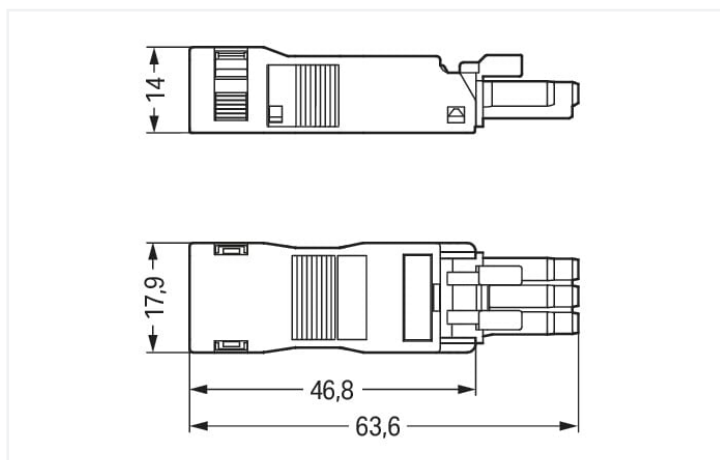
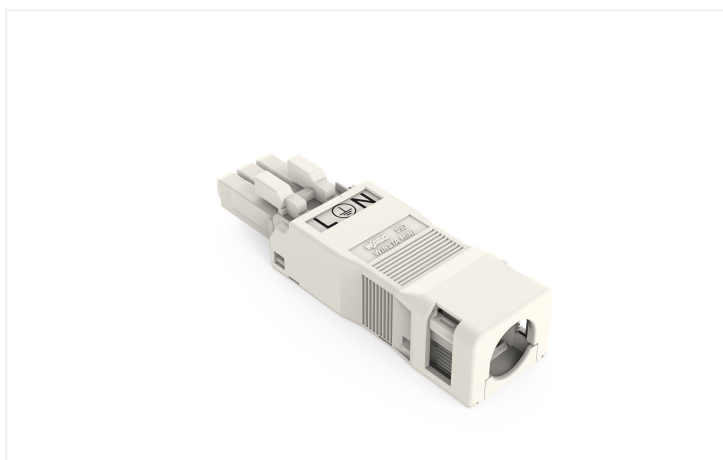
Data Sheet | Item Number: 890-123

Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm²; white

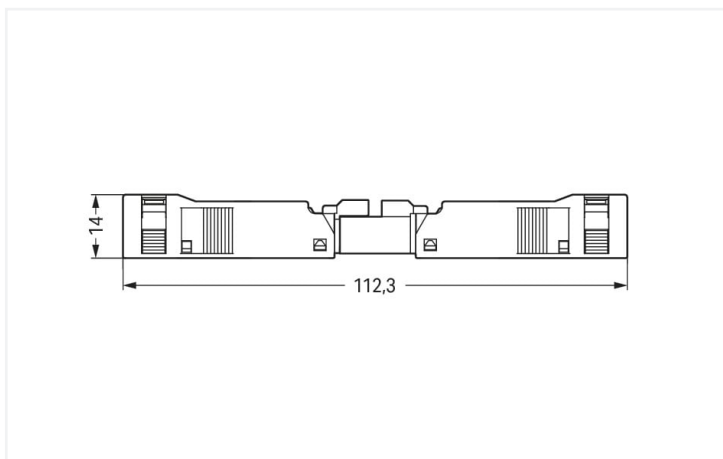
<https://www.wago.com/890-123>



Color: ■ white



Dimensions in mm



Dimensions in mm
Overall length when mated



Female connector/socket WINSTA® MINI with strain relief

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MINI female connector/socket 3-pole. The pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow resource-efficient, error-free installation in a large number of applications. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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. The WINSTA® MINI pluggable installation connector with A coding in white or black is usually used for general mains applications in power distribution. Due to its particularly minimal dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very restricted spaces, i.e., for installations when very little room is available. The strip length is 40 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 strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, even more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Now you can also cut installation expenses without compromising safety and quality: with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- consistent IP40 protection
- with A coding for use in a large number of general mains applications
- ready to install and use immediately
- fast, secure installation

This item includes:



Item No.: 890-223	1	Item No.: 890-513	1
Socket; 3-pole; Cod. A; 1,50 mm²; white		Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white	

Electrical data

Ratings per			IEC/EN 60664-1		Approvals per		UL 1977	
Overvoltage category	III	III	II		Rated voltage		600 V	
Pollution degree	3	2	2		Rated current		14 A	
Nominal voltage	250 V	-	-					
Rated surge voltage	4 kV	-	-					
Rated current	16 A	-	-					

General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket
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Connection data

Clamping units	3	Connection 1	
Total number of potentials	3	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

Connection 1

Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.75 mm ² / 22 ... 20 AWG
---	---

Fine-stranded conductor; with ferrule; push-in termination	0.75 mm ² / 20 AWG
--	-------------------------------

Strip length	9 mm / 0.35 inches
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Pole number	3
-------------	---

Connectable sheathed cable diameter	4.5 ... 10 mm
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Conductor entry direction to mating direction	0 °
---	-----

Strip length (outer insulation)	40 mm
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Physical data

Pin spacing	4.4 mm / 0.173 inches
-------------	-----------------------

Width	17.9 mm / 0.705 inches
-------	------------------------

Height	14 mm / 0.551 inches
--------	----------------------

Depth	63.6 mm / 2.504 inches
-------	------------------------

Mechanical data

Use	General mains applications
-----	----------------------------

Coding	A
--------	---

Variable coding	No
-----------------	----

Marking	L ⊕ N
---------	-------

Potential marking	L ⊕ N
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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
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Protection type	IP40
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Plug-in connection

Contact type (pluggable connector)	Female connector/socket
------------------------------------	-------------------------

Connector (connection type)	for conductor
-----------------------------	---------------

Mismating protection	Yes
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Note on mismating protection	All <i>WINSTA</i> ® 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
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Locking lever	Can be retrofitted
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Locking of plug-in connection	Locking lever
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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).
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Strain relief	Strain relief housing
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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		0.295 MJ
Connector color		white
Strain relief color		white
Weight		6.8 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 9.0		EC002560
ETIM 8.0		EC002560
PU (SPU)		50 pcs
Packaging type		Box
Country of origin		DE
GTIN		4045454232962
Customs tariff number		85366990990

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
 		
Approval	Standard	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
Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-



Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	Steel Vessel Rules	19-HG1869855-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	EN 61535	08/20047 (E2)

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 890-123



Documentation

Bid Text			
890-123	19.02.2019	xml 3.03 KB	
890-123	29.11.2018	doc 23.50 KB	

CAD/CAE-Data

CAD data
2D/3D Models 890-123



CAE data	
EPLAN Data Portal 890-123	
WSCAD Universe 890-123	
ZUKEN Portal 890-123	

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8993/205-102
pre-assembled connecting cable; Eca;
Plug/open-ended; 3-pole; Cod. A; 1 m;
1,00 mm²; white



Item No.: 891-8993/005-102
pre-assembled interconnecting cable;
Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00
mm²; white



1.1.2 Distribution connector



Item No.: 890-684
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white



Item No.: 890-686
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white



Item No.: 890-656
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white



Item No.: 890-665
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

1.1.3 Male connector/plug



Item No.: 890-833/011-000
Plug for PCBs; angled; 3-pole; Cod. A; white



Item No.: 890-833
Plug for PCBs; straight; 3-pole; Cod. A; white



Item No.: 890-233
Plug; 3-pole; Cod. A; 1,50 mm²; white



Item No.: 890-133
Plug; with strain relief housing; 3-pole; 1,50 mm²; white



Item No.: 890-733
Snap-in plug; 3-pole; Cod. A; 1,50 mm²; white

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



Item No.: 890-111
Locking lever; for flying leads; for tool operation; black



Item No.: 890-131
Locking lever; for flying leads; for tool operation; white



Item No.: 890-101
Locking lever; for manual operation; black



Item No.: 890-121
Locking lever; for manual operation; white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



Item No.: 897-2001
Protective cap; Type 1; for sockets and plugs; PVC; red

1.3.2 Installation

1.3.2.1 Mounting accessories



Item No.: 890-310
Mounting carrier; 2- to 5-pole; for flying leads; black



Item No.: 890-311
Mounting carrier; 2- to 5-pole; for flying leads; white

1.3.3 Shield termination

1.3.3.1 Shield termination



Item No.: 890-523
Shield connecting plate; 3-pole; for sockets and plugs; silver-colored

1.3.4 Tool

1.3.4.1 Operating tool



Item No.: 890-383
Operating tool; 3-way; green



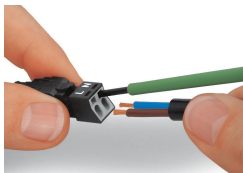
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

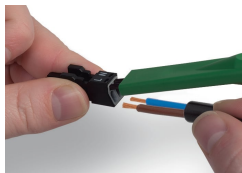
Conductor termination



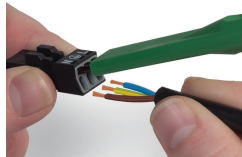
- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

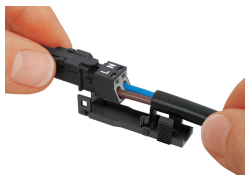


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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



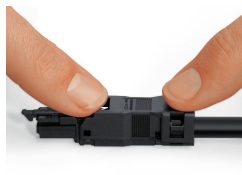
Latch the wired connector into the base of the strain relief housing.



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.



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

Shield termination

			
Connector with shield termination	Apply the shield to the sheathed cable. Strip length, outer insulation = 30 mm Shield length = 8 mm	Push the shield connecting plate into the connector until fully inserted.	First insert the wired connector into strain relief housing, then snap clamp and cover.