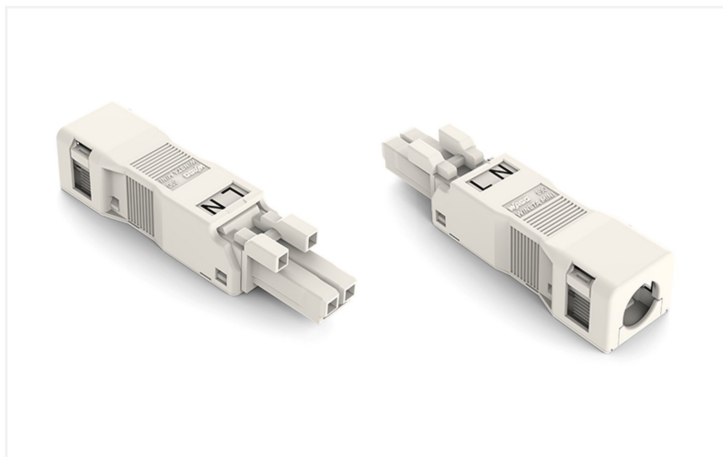


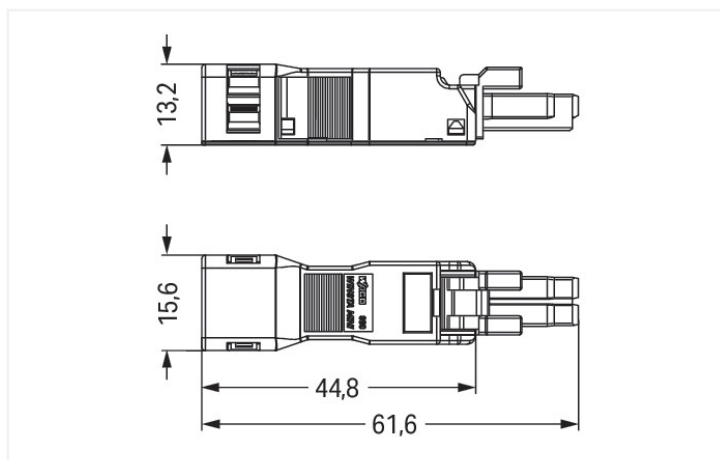
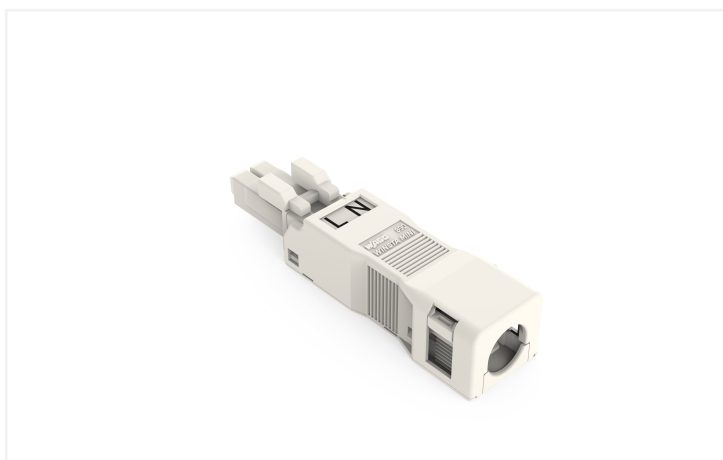
## Data Sheet | Item Number: 890-122

Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm<sup>2</sup>; white

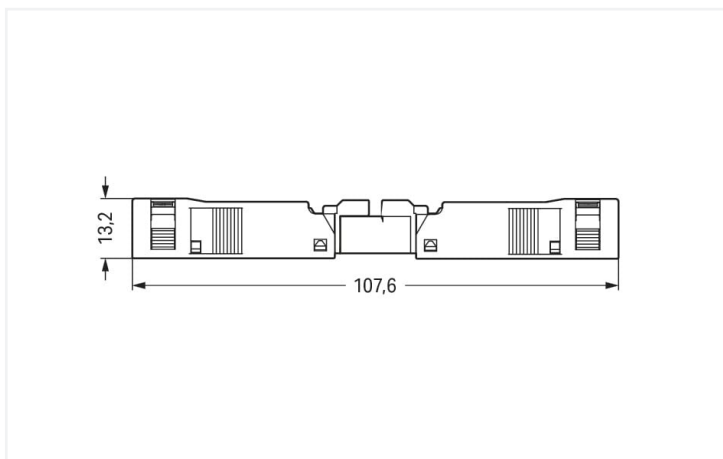
<https://www.wago.com/890-122>



Color: ■ white



Dimensions in mm



Dimensions in mm  
Overall length when mated

Female connector/socket WINSTA® MINI rated current 16 A



Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MINI female connector/socket 2-pole. 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 seconds. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected in accordance with protection type IP40. Users' fingers and tools will never come into contact with live elements. Thanks to the color coding and mechanical A coding of WINSTA® MINI pluggable installation connectors, you can clearly distinguish different circuits. WINSTA® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for instance, since due to LED technology, these offer significantly less space for the connection technology. A range up to 32 mm can be used for the strip length.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose quality and durability – with protection type IP40 from WAGO makes the electrical installation of electrical components noticeably easier.

- pluggable installation connectors with protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm²
- with A coding for use in a large number of general mains applications
- ready to install and use immediately
- convenient installation and commissioning

This item includes:

			
Item No.: 890-222	1	Item No.: 890-512	1
Socket; 2-pole; Cod. A; 1,50 mm²; white		Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; white	

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

### Connection 1

Fine-stranded conductor; with ferrule; push-in termination	0.75 mm <sup>2</sup> / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	2
Connectable sheathed cable diameter	3.8 ... 8.2 mm
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

Use	General mains applications
Coding	A
Variable coding	No
Marking	L N
Potential marking	L N
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	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)	<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	0.152 MJ



Material data		
Connector color		white
Strain relief color		white
Weight		5.6 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

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		4045454232955
Customs tariff number		85366990990

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals



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

Declarations of conformity and manufacturer's declarations

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 890-122

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Documentation

Bid Text			
890-122	19.02.2019	xml 3.03 KB	↓
890-122	29.11.2018	doc 23.50 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 890-122

↓

CAE data

EPLAN Data Portal 890-122

↓

WSCAD Universe 890-122

↓


ZUKEN Portal 890-122

↓


1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly




**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




**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


1.1.2 Distribution connector




**Item No.: 890-1684**  
h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white



**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



**Item No.: 890-1656**  
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white



**Item No.: 890-1665**  
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white



1.1.3 Male connector/plug



**Item No.: 890-832/011-000**  
Plug for PCBs; angled; 2-pole; Cod. A; white

**Item No.: 890-832**  
Plug for PCBs; straight; 2-pole; Cod. A; white

**Item No.: 890-232**  
Plug; 2-pole; 1,50 mm<sup>2</sup>; white

**Item No.: 890-132**  
Plug; with strain relief housing; 2-pole; 1,50 mm<sup>2</sup>; white



**Item No.: 890-732**  
Snap-in plug; 2-pole; Cod. A; 1,50 mm<sup>2</sup>; 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; Type1; 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 Tool

1.3.3.1 Operating tool

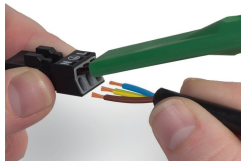
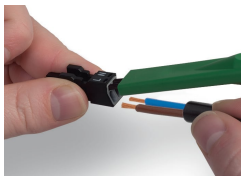
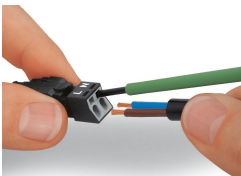


**Item No.: 890-382**  
Operating tool; 2-way; green

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

Installation Notes

Conductor termination



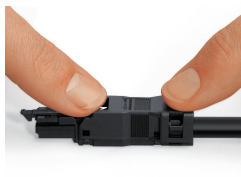
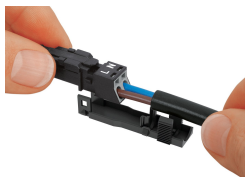
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

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.