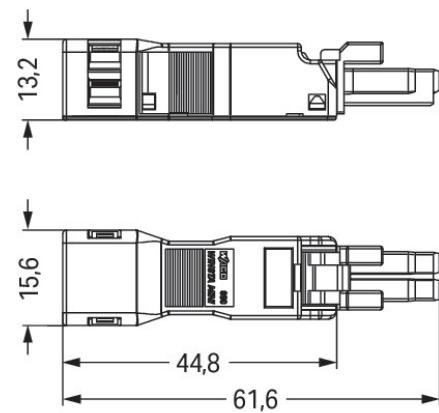
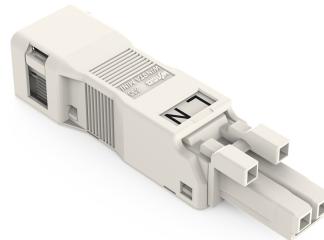
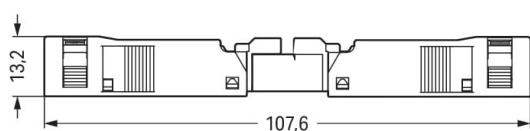


Color: white



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 Socket; 2-pole; Cod. A; 1,50 mm ² ; white	Item No.: 890-512 1 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			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	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 mm ² / 16 AWG
		Solid conductor	0.25 ... 1.5 mm ² / 22 ... 16 AWG
		Solid conductor; push-in termination	0.75 ... 1.5 mm ² / 20 ... 16 AWG
		Stranded conductor	0.25 ... 1 mm ² / 22 ... 18 AWG
		Fine-stranded conductor	0.25 ... 1.5 mm ² / 22 ... 16 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm ² / 22 ... 20 AWG
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.75 mm ² / 22 ... 20 AWG

Connection 1

Fine-stranded conductor; with ferrule; push-in termination 0.75 mm² / 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)

[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

0.152 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
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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



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 mm²; white

[Item No.: 890-132](#)

Plug; with strain relief housing; 2-pole; 1,50 mm²; white



[Item No.: 890-732](#)

Snap-in plug; 2-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; 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

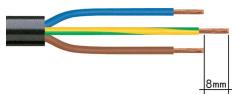


[Item No.: 210-719](#)

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

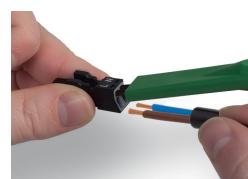
Conductor termination



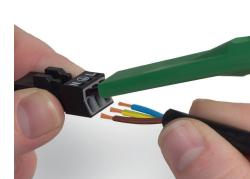
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.