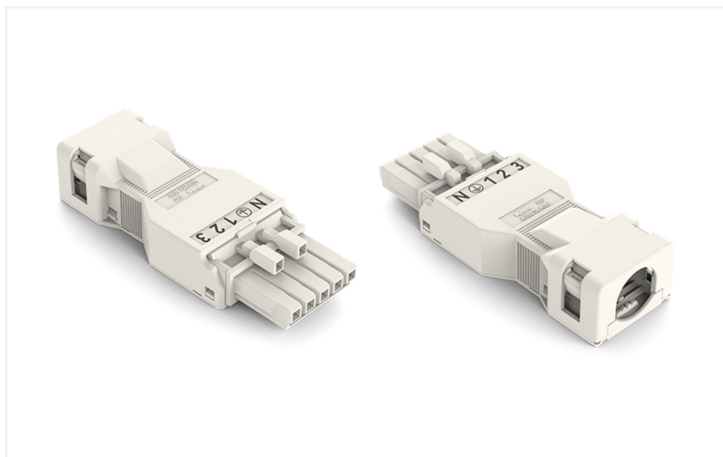


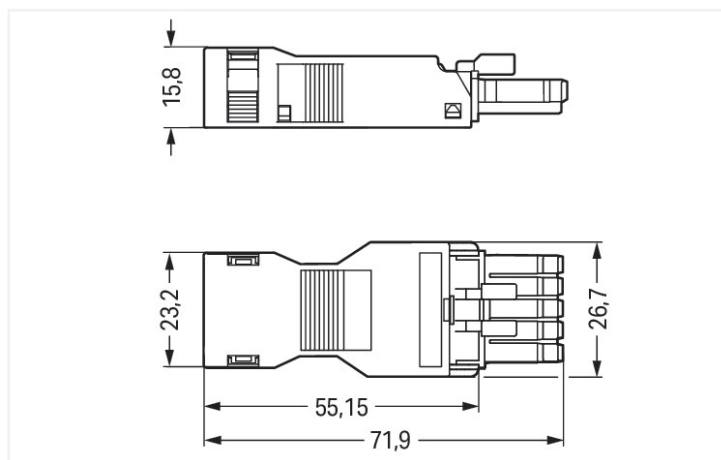
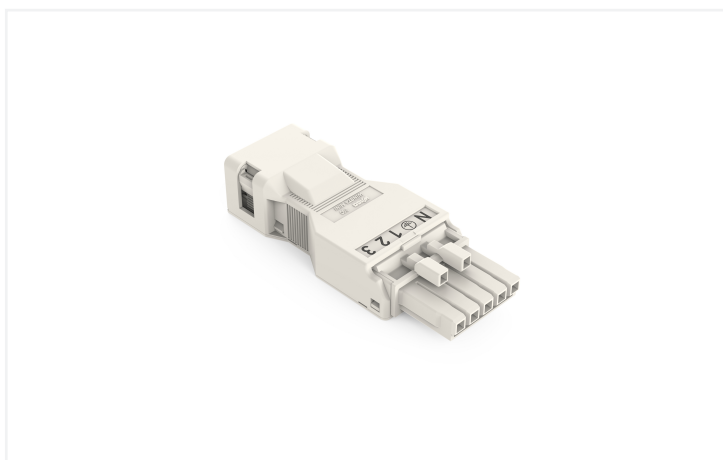
Data Sheet | Item Number: 890-125

Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm²; white

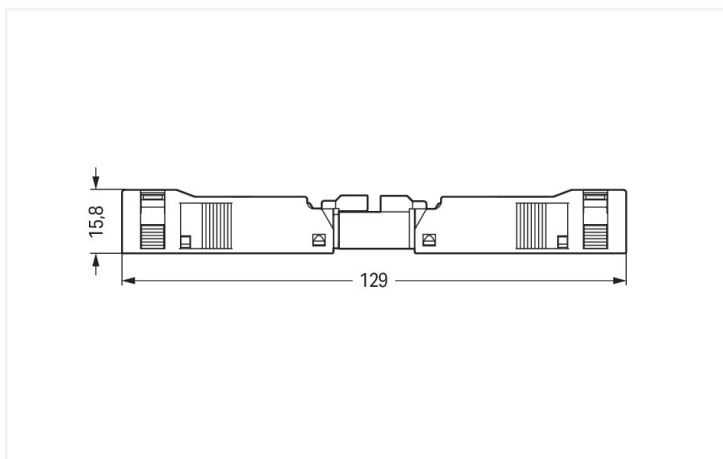
<https://www.wago.com/890-125>



Color: ■ white



Dimensions in mm



Dimensions in mm
Overall length when mated



Female connector/socket WINSTA® MINI with protection against mismating

For power and signal transmission: The WINSTA® MINI female connector/socket 5-pole. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow fast, efficient, error-free installation in a large number of possible uses. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector is protected against ingress by solid granular objects with a diameter of less than 1 mm in accordance with protection type IP40. The WINSTA® MINI pluggable installation connector with A coding in black or white is normally used for general mains applications in power distribution. Where space is tight, our smallest pluggable connection system, WINSTA® MINI, conveniently displays its advantages. It is very compact, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also saves time, since the installation is low-maintenance and can be performed without screw connections. A range up to 45 mm can be used for the strip length.

WINSTA® MINI solutions for your electrical installation – protected against mismating and maintenance-free

The WINSTA® Pluggable Connection System is ideally tailored to the 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 assembly times and installation errors at the construction site. Now you can also cut installation expenses without compromising quality and safety: with protection against mismating eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismating eliminates errors
- easy tool-free operation, a wide range of coding options
- with A coding for a large number of applications
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

This item includes:



Item No.: 890-225	1	Item No.: 890-515	1
Socket; 5-pole; Cod. A; 1,50 mm ² ; white		Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 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	12 A
Nominal voltage	400 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	13 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	5	Connection 1	
Total number of potentials	5	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

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
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Strip length	9 mm / 0.35 inches
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Pole number	5
-------------	---

Connectable sheathed cable diameter	6.5 ... 10.5 mm
-------------------------------------	-----------------

Conductor entry direction to mating direction	0 °
---	-----

Strip length (outer insulation)	45 mm
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Physical data

Pin spacing	4.4 mm / 0.173 inches
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Width	26.7 mm / 1.051 inches
-------	------------------------

Height	15.8 mm / 0.622 inches
--------	------------------------

Depth	71.9 mm / 2.831 inches
-------	------------------------

Mechanical data

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

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

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

Marking	N ⊕ 1 2 3
---------	-----------

Potential marking	N ⊕ 1 2 3
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Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
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Retention force of a plug-in connection	Locked: > 80 N
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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		0.308 MJ
Connector color		white
Strain relief color		white
Weight		12 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)
PU (SPU)		50 pcs
Packaging type		Box
Country of origin		DE
GTIN		4045454232986
Customs tariff number		85366990990

Product Classification		
UNSPSC		39121409
eCl@ss 10.0		27-44-06-05
eCl@ss 9.0		27-44-06-05
ETIM 9.0		EC002560
ETIM 8.0		EC002560
ECCN		NO US CLASSIFICATION

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	EN 61535	71-123231	EU-Declaration of Confor- mity	-	-
DEKRA Certification B.V.			WAGO GmbH & Co. KG		
CCA	IEC 61535	NL-85020	UK-Declaration of Confor- mity	-	-
DEKRA Certification B.V.			WAGO GmbH & Co. KG		
cURus	UL 1977	E45171			
Underwriters Laboratories Inc.					



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 890-125



Documentation

Bid Text
890-125
19.02.2019
xml 3.00 KB
890-125
08.06.2015
doc 23.50 KB



CAD/CAE-Data

CAD data
2D/3D Models 890-125



CAE data
WSCAD Universe 890-125
ZUKEN Portal 890-125



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8995/206-102
pre-assembled connecting cable; Eca;
Plug/open-ended; 5-pole; Cod. A; H05VV-
F 5G 1.5 mm²; 1 m; 1,50 mm²; white

Item No.: 891-8995/006-102
pre-assembled interconnecting cable;
Eca; Socket/plug; 5-pole; Cod. A; H05VV-
F 5G 1.5 mm²; 1 m; 1,50 mm²; white



1.1.2 Distribution connector



Item No.: 890-979
h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white



Item No.: 890-980
h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white



Item No.: 890-671
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white



Item No.: 890-672
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

1.1.3 Male connector/plug



Item No.: 890-835/011-000
Plug for PCBs; angled; 5-pole; Cod. A; white



Item No.: 890-835
Plug for PCBs; straight; 5-pole; Cod. A; white



Item No.: 890-235
Plug; 5-pole; Cod. A; 1,50 mm²; white



Item No.: 890-135
Plug; with strain relief housing; 5-pole; 1,50 mm²; white



Item No.: 890-735
Snap-in plug; 5-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.: 897-2003
Protective cap; Type2; 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.: 890-526
Shield connecting plate; 5-pole; for sockets

1.3.4 Tool

1.3.4.1 Operating tool



Item No.: 890-385
Operating tool; 5-way; green



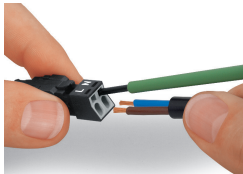
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

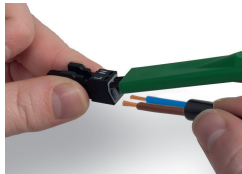
Conductor termination



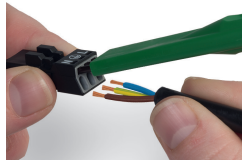
- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

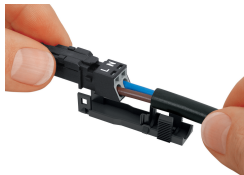


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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



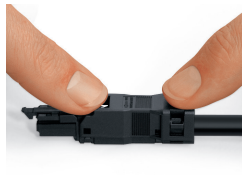
Latch the wired connector into the base of the strain relief housing.



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.