Plug; with strain relief housing; 5-pole; 1,50 mm<sup>2</sup>; white

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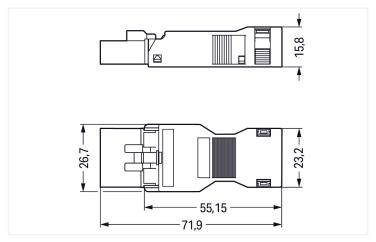




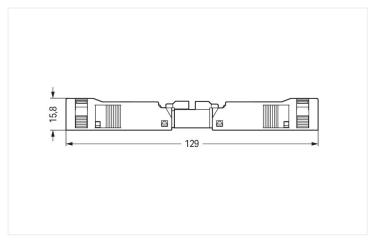


Color: white





Dimensions in mm



Dimensions in mm Overall length when mated

https://www.wago.com/890-135

# W/4GO

#### Male connector/plug WINSTA® MINI A coding

For signal and power transmission: The WINSTA® MINI male connector/plug with protection against mismating. WAGO pluggable installation connectors are used when criteria repeat or are planned on a specified pattern, for example for installing grid lighting or flush-mount lighting. For greater security in electrical installations, the pluggable installation connector is provided 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. 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 primarily suited for lights, for instance, since as a result of LED technology; due to complex systems, these offer significantly less space for the connection technology. 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 perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, more reliable, and error-free. Using this pre-assembled system decreases time spent on assembly and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP40 from WAGO.

- · effective protection against mismating
- · easy tool-free operation, a wide range of coding options
- with A coding for use in a large number of general mains applications
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

#### This item includes:



lectrical data				
Ratings per	IEC	C/EN 60664	4-1	Approvals per
Overvoltage category	III	III	II	Rated voltage
Pollution degree	3	2	2	Rated current
Nominal voltage	400 V	-	-	
Rated surge voltage	6 kV	-	-	
Rated current	13 A	-	-	
General information				
Note on contact resistance	approx. 1 mΩ c approx. 0.25 m socket			

onnection 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 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

# Data Sheet | Item Number: 890-135 https://www.wago.com/890-135



Connection 1	
Fine-stranded conductor; with uninsulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm² / 20 AWG
Strip length	9 mm / 0.35 inches
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

Physical data	
Pin spacing	4.4 mm / 0.173 inches
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	321⊕N
Potential marking	321⊕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)	Male connector/plug
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

Approvals / Certificates



<u>Information on material specifications can be found here</u>
white
gray
T
Polyamide (PA66)
V0
Chrome-nickel spring steel (CrNi)
Copper or copper alloy; surface-treated
Tin
0.352 MJ
white
white
11.6 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)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454233037
Customs tariff number	85366990990

Product classification	
UNSPSC	39121402
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

General approvals			Declarations of conformity and manufacturer's declarations		
IZEMA					
KEWA CALUS	3		Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity	-	-
la la		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1111cy		

<b>Approval</b> CCA	Standard EN 61535	Certificate Name	mity WAGO GmbH & Co. KG
DEKRA Certification B.V.	LN 01333	71-123231	UK-Declaration of Confor
CCA DEKRA Certification B.V.	IEC 61535	NL-85020	mity WAGO GmbH & Co. KG
cURus Underwriters Laboratories Inc.	UL 1977	E45171	

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#### Approvals for marine applications







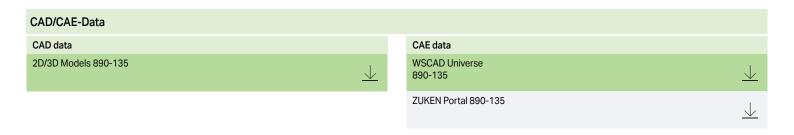
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	Steel Vessel Rules	19-HG1869855-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	EN 61535	08/20047 (E2)

### **Downloads**

#### **Environmental Product Compliance**

Compliance Search **Environmental Product** Compliance 890-135

#### Documentation **Bid Text** 890-135 xml 19.02.2019 3.01 KB 890-135 doc 08.06.2015 23.50 KB

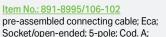


#### 1 Compatible Products

## 1.1 System counterpart

# 1.1.1 Cable assembly





Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white

Item No.: 891-8995/006-102

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white

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#### 1.1.2 Distribution connector



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 Female connector/socket



Item No.: 890-725

Snap-in socket; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; white

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# Item No.: 890-725/006-000

Snap-in socket; without locking lever; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; white

Co Co.

# Item No.: 890-825/011-000

Socket for PCBs; angled; 5-pole; Cod. A; white

#### Item No.: 890-825

Socket for PCBs; straight; 5-pole; Cod. A; white

#### Item No.: 890-225

Socket; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; white

#### Item No.: 890-125

Socket; with strain relief housing; 5-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.: 897-2003

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.: 890-527

Shield connecting plate; 5-pole; for plugs

#### 1.3.4 Tool

#### 1.3.4.1 Operating tool





Item No.: 890-385

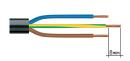
Operating tool; 5-way; green

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.

https://www.wago.com/890-135



#### 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.

Subject to changes. Please also observe the further product documentation!