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

https://www.wago.com/890-115

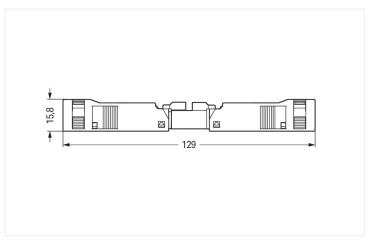




55,15 71,9

Dimensions in mm





Dimensions in mm Overall length when mated

#### Male connector/plug WINSTA® MINI 5-pole

For signal and power transmission: The WINSTA® MINI male connector/plug with protection against mismating. WAGO pluggable installation connectors are useful when criteria repeat or are planned on a specified grid, 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 below 1 mm in accordance with protection type IP40. Standard mains applications for almost any domain of use can be implemented with WINSTA® MINI pluggable installation connectors with A coding. WINSTA® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for instance, since as a result of LED technology; due to complex systems, these offer less and less space for the connection technology. The strip length is 45 mm.

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 saves time, lowers costs, and reduces the need for servicing. Choose durability and quality – with strain relief hosting from WAGO makes the installation of electrical components visibly easier.

- · protection against mismating eliminates errors
- · easy tool-free operation, a wide range of coding options
- with A coding for use in a large number of general mains applications
- exact dimensions
- · convenient installation and commissioning

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#### This item includes:





Item No.: 890-215

1

Item No.: 890-505

1

Plug; 5-pole; Cod. A; 1,50 mm²; black

Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; black

Electrical data			
Ratings per	IEC	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	13 A	-	-

Approvals per	UL 1977
Rated voltage	600 V
Rated current	12 A

# **General information**

Note on contact resistance

approx. 1 m $\Omega$  of contact resistance approx. 0.25 m $\Omega$  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 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 mm <sup>2</sup> / 22 20 AWG
		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	5
		Connectable sheathed cable diameter	6.5 10.5 mm
	Conductor entry direction to mating direction	0°	
		Strip length (outer insulation)	45 mm

# Data Sheet | Item Number: 890-115 https://www.wago.com/890-115



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

Information on material specifications can be found here
black
gray
1
Polyamide (PA66)
V0
Chrome-nickel spring steel (CrNi)
Copper or copper alloy; surface-treated
Tin
0.403 MJ
black
black
11.6 g

https://www.wago.com/890-115



# 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	4045454232924
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Annrova	le / C	`ortifia	oate:

# 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 Conformity 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)

https://www.wago.com/890-115



#### Downloads

#### **Environmental Product Compliance**

#### Compliance Search

Environmental Product Compliance 890-115



#### **Documentation**

Bid Text			
890-115	19.02.2019	xml 3.01 KB	$\underline{\downarrow}$
890-115	08.06.2015	doc 23.50 KB	$\underline{\downarrow}$

#### CAD/CAE-Data

#### CAD data

2D/3D Models 890-115



#### CAE data

WSCAD Universe 890-115





#### 1 Compatible Products

# 1.1 System counterpart

#### 1.1.1 Cable assembly





# Item No.: 891-8995/106-101

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

# Item No.: 891-8995/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

#### 1.1.2 Distribution connector



h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

# Item No.: 890-930

h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black

#### Item No.: 890-621

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

#### Item No.: 890-622

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

https://www.wago.com/890-115



#### 1.1.3 Female connector/socket

Item No.: 890-705

Snap-in socket; 5-pole; Cod. A; 1,50 mm²; black

Item No.: 890-705/006-000

Snap-in socket; without locking lever; 5-pole; Cod. A; 1,50 mm²; black

Item No.: 890-805/011-000

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

Item No.: 890-805

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

Item No.: 890-205

Socket; 5-pole; Cod. A; 1,50 mm²; black

Item No.: 890-105

Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; black

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

(A)

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

https://www.wago.com/890-115



#### 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 si-



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.

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

Current addresses can be found at::  $\underline{www.wago.com}$ 

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