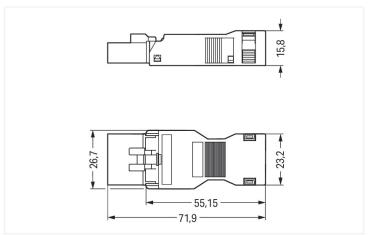
Plug; with strain relief housing; 5-pole; 1,50 mm²; black

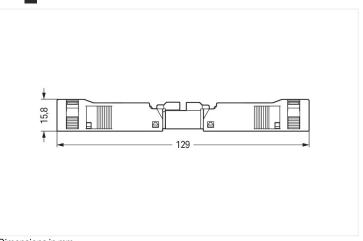
https://www.wago.com/890-115







Dimensions in mm



Dimensions in mm Overall length when mated

Male connector/plug WINSTA® MINI with protection against mismating

The WINSTA® MINI male connector/plug rated current 13 A supports rapid, correct installation. WAGO pluggable installation connectors can be used when criteria repeat or are distributed on a defined grid, for example for installing grid lighting or flush-mount lighting. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including 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. The WINSTA® MINI pluggable installation connector with A coding in black or white is normally used for general mains applications in power distribution. Thanks to its particularly minimal dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very tight spaces, i.e., for connections when very little room is available. The strip length is 45 mm.

Lower costs through fast commissioning and elimination of service expenses - solutions from WINSTA® MINI

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, even more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and errors during installation at the construction site. Now you can also lower installation costs without compromising quality and safety: The WINSTA® MINI pluggable installation connector with marking eliminates the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with 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
- · ready to install and use immediately
- quick replacement of defective units during ongoing operation

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



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/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	13 A
Legend (ratings)	(III / 3)

Ratings per UL 1977	
Note for the US market	Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	12 A

General	
Note on contact resistance	approx. 1 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/ socket

ta				
	5		Connection 1	
otal 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	$0.25 \dots 1.5 \text{mm}^2 / 22 \dots 16 \text{AWG}$
			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
			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

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	
Application	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

Material Data	
Note (material data)	
	Information on material specifications can be found here
Color	black
Cover color	gray
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.307 MJ
Weight	11.6 g

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



Environmental requirements

Processing temperature $-5 \dots +40 \,^{\circ}\text{C}$ Continuous operating temperature $-35 \dots +85 \,^{\circ}\text{C}$

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 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 pcs
Packaging type	Вох
Country of origin	DE
GTIN	4045454232924
Customs tariff number	85366990990

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

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 890-115



Documentation

Bid Text			
890-115	19.02.2019	xml 3.01 KB	<u>↓</u>
890-115	08.06.2015	doc 23.50 KB	$\overline{\downarrow}$

CAD/CAE-Data

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





2D/3D Models 890-115



CAE data

WSCAD Universe 890-115



ZUKEN Portal 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

Item No.: 890-929

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

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; black



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 mm²; black

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



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

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



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: 2.5×0.4 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.

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



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.

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