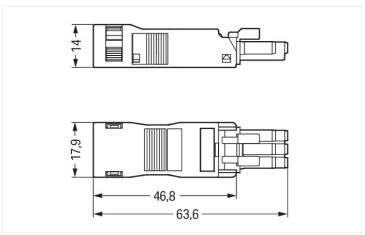
Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm²; black

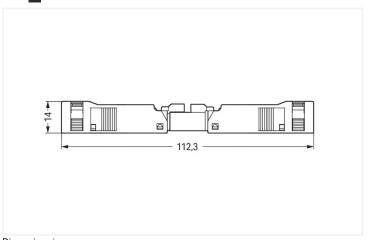


https://www.wago.com/890-103





Dimensions in mm



Dimensions in mm Overall length when mated

Female connector/socket WINSTA® MINI with protection type IP40

For power and signal transmission: The *WINSTA*® MINI female connector/socket with protection type IP40. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow resource-efficient, error-free installation in a large number of applications. 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 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. Thanks to its particularly small dimensions, our *WINSTA*® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very restricted spaces, i.e., for connections when very little room is available. The strip length is 40 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 significantly reduces the need for servicing and lowers costs. Choose quality and durability – the WINSTA® MINI pluggable installation connector with marking from WAGO makes the installation of electrical components substantially easier.

- · effective protection against mismating
- 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
- · custom-engineered solutions
- · convenient installation and commissioning

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This item includes:





Item No.: 890-203

1

Item No.: 890-503

1

Socket; 3-pole; Cod. A; 1,50 mm²; black

Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black

Electrical data	
Ratings per IEC/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	16 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 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	14 A

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

ection data				
nnection points	3		Connection 1	
Total number of potentials 3	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 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	3
			Connectable sheathed cable diameter	4.5 10 mm
	Conductor entry direction to mating direction	0°		
			Strip length (outer insulation)	40 mm

Data Sheet | Item Number: 890-103 https://www.wago.com/890-103



Physical data	
Pin spacing	4.4 mm / 0.173 inches
Width	17.9 mm / 0.705 inches
Height	14 mm / 0.551 inches
Denth	63.6 mm / 2.504 inches

Mechanical Data	
Application	General mains applications
Coding	A
Variable coding	No
Marking	$L \oplus N$
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)	
	<u>Information on material specifications can be found here</u>
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	0.188 MJ
Weight	7.2 g

https://www.wago.com/890-103



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	Box
Country of origin	DE
GTIN	4045454232856
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 890-103



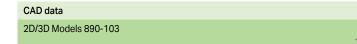
Documentation

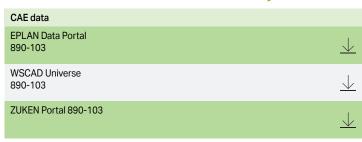
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890-103	08.06.2015	doc 23.00 KB	\downarrow

CAD/CAE-Data

https://www.wago.com/890-103







1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly





Item No.: 891-8993/205-101
pre-assembled connecting cable; Eca;
Plug/open-ended; 3-pole; Cod. A; 1 m;
1,00 mm²; black

Item No.: 891-8993/005-101
pre-assembled interconnecting cable;
Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00
mm²; black

1.1.2 Distribution connector

Item No.: 890-634

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

Item No.: 890-636

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

Item No.: 890-606

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

Item No.: 890-615

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

1.1.3 Male connector/plug

Item No.: 890-813/011-000

Plug for PCBs; angled; 3-pole; Cod. A; black

Item No.: 890-813

Plug for PCBs; straight; 3-pole; Cod. A; black

Item No.: 890-213

Plug; 3-pole; Cod. A; 1,50 mm²; black

Item No.: 890-113

Plug; with strain relief housing; 3-pole; 1,50 mm²; black

Item No.: 890-713

Snap-in plug; 3-pole; Cod. A; 1,50 mm²; 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

SI

<u>Item No.: 890-101</u> Locking lever; for manual operation; black

3

<u>Item No.: 890-121</u> Locking lever; for manual operation; white

1.3 Optional Accessories

1.3.1 Cover

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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 Shield termination

1.3.3.1 Shield termination



Item No.: 890-523

Shield connecting plate; 3-pole; for sockets and plugs; silver-colored

1.3.4 Tool

1.3.4.1 Operating tool



Item No.: 890-383

Operating tool; 3-way; green

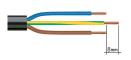


Item No.: 210-719

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.

https://www.wago.com/890-103



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!