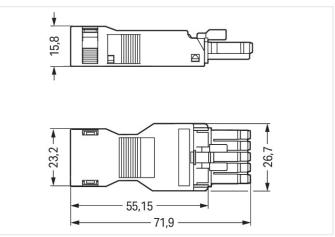
Data sheet | Item number: 890-105 Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm²; black

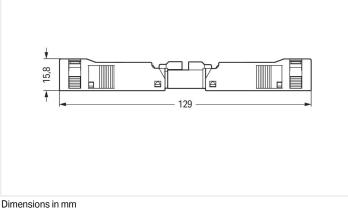


https://www.wago.com/890-105





Dimensions in mm



Overall length when mated

Female connector/socket WINSTA® MINI with protection type IP40

The *WINSTA*[®] MINI female connector/socket 5-pole allows installation of solid and fine-stranded conductors. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in seconds. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector offers protection against contact with wires or tools if they are smaller 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. Due to its particularly compact dimensions, our *WINSTA*[®] MINI Pluggable Connection System with Push-in CAGE CLAMP[®] spring pressure connection technology is especially 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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Choose quality and durability – the *WINSTA®* MINI pluggable installation connector with marking from WAGO makes the electrical installation of electrical components visibly easier.

- effective protection against mismating
- compact design for conductors with a cross-section up to 1.5 mm²
- for any mains application
- ready for immediate use
- quick replacement of defective units during ongoing operation

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Electrical data

Item includes

Ratings per IEC/EN		Ratings per UL	
Ratings per	IEC/EN 60664-1	rent interruption in UL certificate in sel currents below 5 A 600 V. For further ir	Some versions may also be used for cur-
Nominal voltage (III/3)	400 V		rent interruption in accordance with the UL certificate in select applications with
Rated impulse voltage (III/3)	6 kV		currents below 5 A and voltages up to
Rated current	13 A		600 V. For further information, please contact your local sales office.
Legend (ratings)	Legend (ratings) (III / 3) ≙ Overvoltage category III / Polluti- on degree 3	Rated voltage (UL 1977)	600 V
		Rated current UL 1977	12 A

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General

Note on contact resistance

approx. 1 $\mbox{m}\Omega$ of contact resistance approx. 0.25 m Ω contact transition plug/ socket

Connection data			
Total number of connection points	5	Connection 1	
Total number of potentials	5	Connection technology	Push-in CAGE CLAMP®

Connection	
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 uninsula- ted 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 di- rection	0°
Strip length (outer insulation)	45 mm

Data sheet | Item number: 890-105 https://www.wago.com/890-105

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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	N ⊕ 1 2 3
Potential marking	N ⊕ 1 2 3
Mating force of a plug-in connection	approx. 20 70 N (depending on pole number)
Retention force of a plug-in connection	Locked:
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 devi- ces, all types of PCB and distribution connectors) are factory-equipped with locking le- vers 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 data 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
Fire load	0.299 MJ
Weight	11.9 g

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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 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4045454232870
Customs tariff number VKOrg Germany	85366990990

Approvals and certificates

Country specific Approvals



Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 61535	71-11299
CCA DEKRA Certification B.V.	IEC 61535	NL-64352

Ship Approvals



TOTES .		
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)

UL-Approvals



Inc.

Approval Sta	nda
cURus UL 1 Underwriters Laboratories	1977

ard

Certificate name E45171

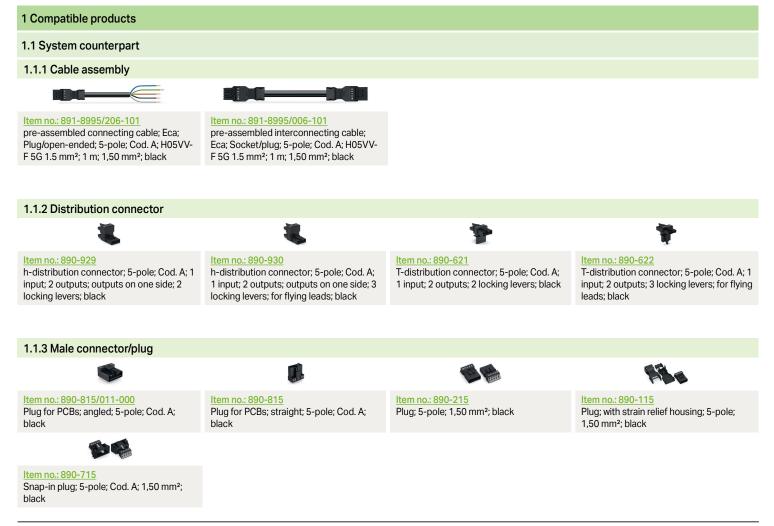
https://www.wago.com/890-105

Downloads

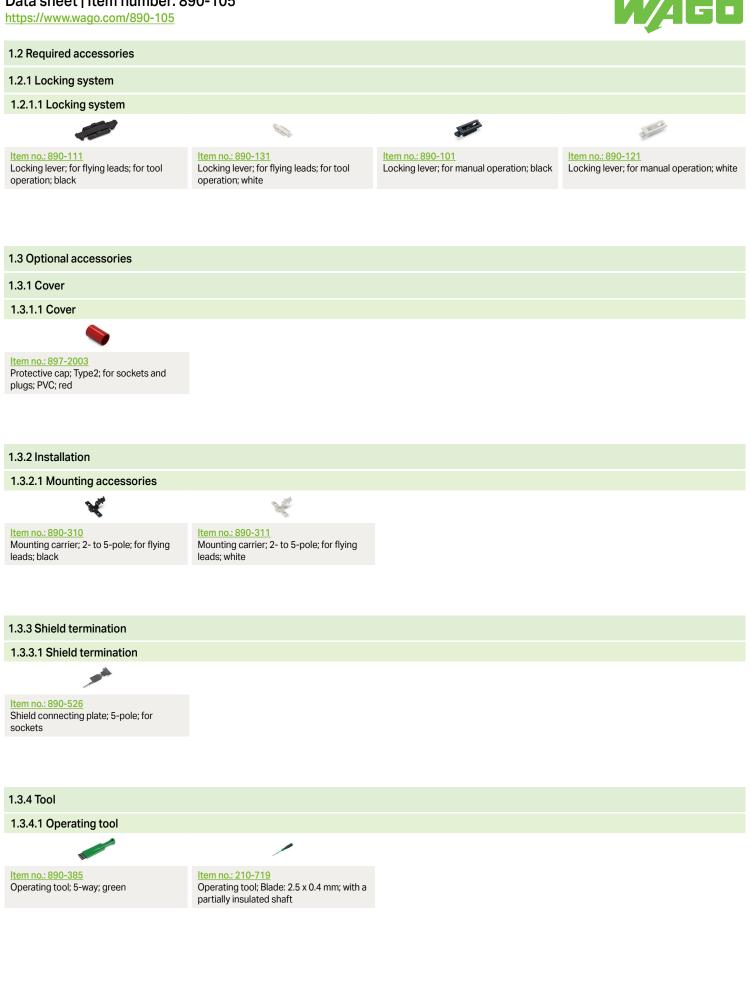


Dominodado	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 890-105	\checkmark

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 890-105	WSCAD Universe 890-105
	ZUKEN Portal 890-105



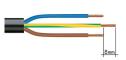




https://www.wago.com/890-105

Installation notes

Conductor termination



1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5pole) 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 pu-

shing 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.

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

