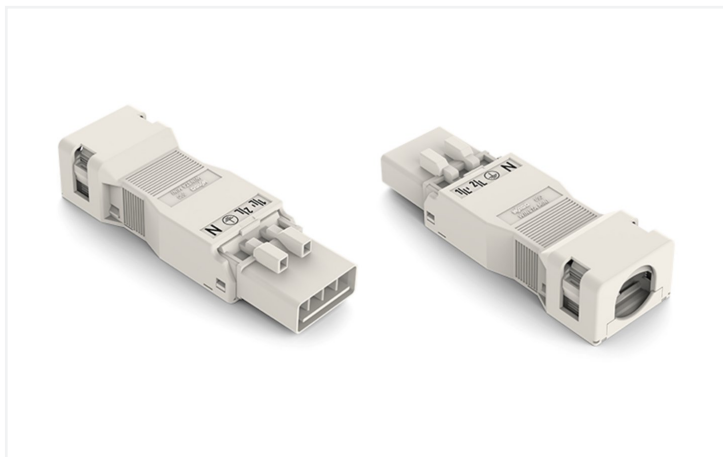


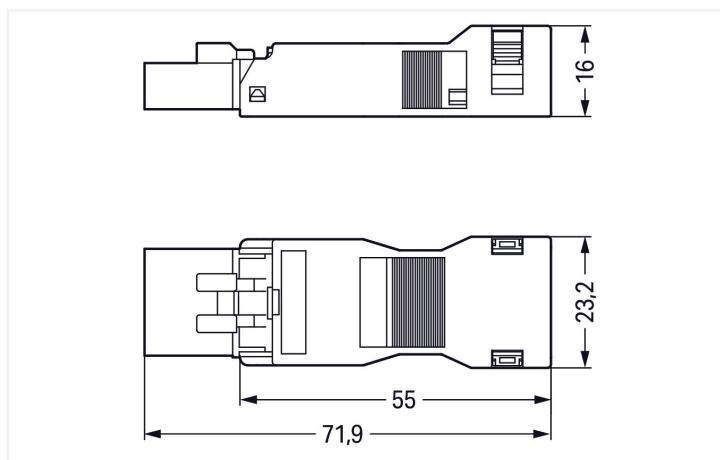
Data Sheet | Item Number: 890-134

Plug; with strain relief housing; 4-pole; 1,50 mm²; white

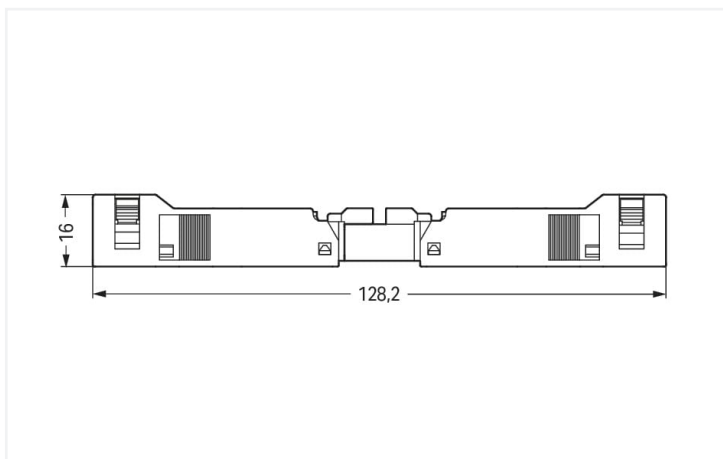
<https://www.wago.com/890-134>



Color:  white



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 A coding supports fast, reliable installation. WAGO pluggable installation connectors are useful when criteria repeat or are distributed 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 equipped with mechanical protection against mismating. The pluggable installation connector is protected in accordance with protection type IP40. Users' hands and tools will never come into contact with live elements. The WINSTA® MINI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. Thanks to its particularly small dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is specifically suitable in very tight spaces, i.e., for installations when very little room is available. 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 allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismating from WAGO.

- protection against mismating eliminates errors
- easy tool-free operation, a wide range of coding options
- suitable for any application
- flexible installation to save space
- rapid, structured electrical installation

This item includes:



Item No.: 890-234	1	Item No.: 890-514	1
Plug; 4-pole; Cod. A; 1,50 mm²; white		Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white	

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	400 V	-	-	
Rated surge voltage	6 kV	-	-	
Rated current	16 A	-	-	
General information				
Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket			
Connection data				
Clamping units	4			
Total number of potentials	4			
PE function	Preceding PE contact			
Connection 1				
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		

Connection 1

Fine-stranded conductor; with ferrule; push-in termination	0.75 mm ² / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	4
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	23.2 mm / 0.913 inches
Height	16 mm / 0.63 inches
Depth	71.9 mm / 2.831 inches

Mechanical data

Use	General mains applications
Coding	A
Variable coding	No
Marking	1/L' 2/L ⊕ N
Potential marking	1/L' 2/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)	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	white
Cover color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact Plating	Tin
Fire load	0.294 MJ



Material data	
Connector color	white
Strain relief color	white
Weight	10.3 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)
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	4045454233020
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

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

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity 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)



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 890-134			

Documentation

Bid Text			
890-134	19.02.2019	xml 3.01 KB	
890-134	08.06.2015	doc 23.50 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 890-134	

CAE data	
WSCAD Universe 890-134	
ZUKEN Portal 890-134	

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8994/106-102
pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white



Item No.: 891-8994/006-102
pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Distribution connector



Item No.: 890-994
h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white



Item No.: 890-995
h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white



Item No.: 890-676
T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white



Item No.: 890-677
T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white



1.1.3 Female connector/socket



Item No.: 890-724
Snap-in socket; 4-pole; Cod. A; 1,50 mm²; white



Item No.: 890-824/011-000
Socket for PCBs; angled; 4-pole; Cod. A; white



Item No.: 890-824
Socket for PCBs; straight; 4-pole; Cod. A; white



Item No.: 890-224
Socket; 4-pole; Cod. A; 1,50 mm²; white



Item No.: 890-124
Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm²; 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.: 890-525
Shield connecting plate; 4-pole; for plugs

1.3.4 Tool

1.3.4.1 Operating tool



Item No.: 890-384
Operating tool; 4-way; green

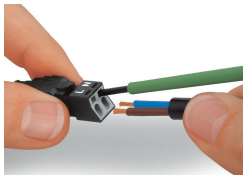
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

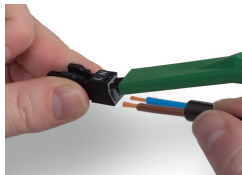
Conductor termination



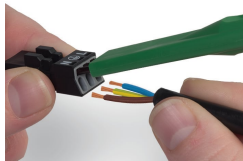
- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

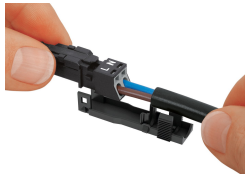


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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



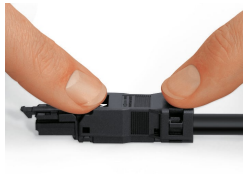
Latch the wired connector into the base of the strain relief housing.



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.

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.