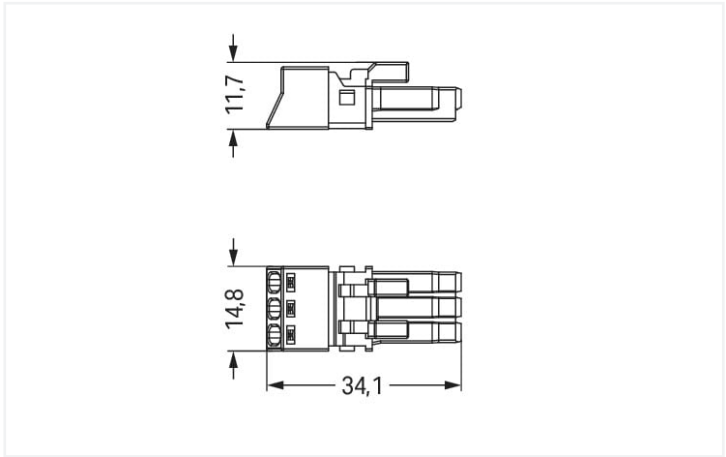


Color: white



Dimensions in mm

Female connector/socket WINSTA® MINI A coding

For signal and power transmission: The WINSTA® MINI female connector/socket A coding. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in a large number of possible uses. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The WINSTA® MINI pluggable installation connector with A coding in black or white is normally used for general mains applications in power distribution. 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 significantly less space for the connection technology.

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 quality and durability – with protection against mismating from WAGO makes the electrical installation of electrical components visibly easier.

- pluggable installation connectors with protection against mismating
- consistent IP40 protection
- with A coding for use in a large number of general mains applications
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

Electrical data						
Ratings per		IEC/EN 60664-1			Approvals per	UL 1977
Overvoltage category		III	III	II	Rated voltage	600 V
Pollution degree		3	2	2	Rated current	14 A
Nominal voltage	250 V	-	-	-		
Rated surge voltage	4 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			
Connection 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
		Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	4.4 mm / 0.173 inches
Width	15 mm / 0.591 inches
Height	11.7 mm / 0.461 inches
Depth	34.1 mm / 1.343 inches

Mechanical data	
Application	General mains applications
Coding	A
Variable coding	No
Marking	L 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	IP20; IP40 with strain relief housing

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).





Material data		
Note (material data)		Information on material specifications can be found here
Color		white
Cover color		gray
Material group		I
Insulation material		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		0.104 MJ
Weight		3.8 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 8.0		EC002560
ETIM 7.0		EC002560
PU (SPU)		50 pcs
Packaging type		Box
Country of origin		PL
GTIN		4055143548526
Customs tariff number		85366990990

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates														
General approvals		Declarations of conformity and manufacturer's declarations												
<div><div></div><table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>CCA DEKRA Certification B.V.</td><td>EN 61535</td><td>71-123231</td></tr><tr><td>CCA DEKRA Certification B.V.</td><td>IEC 61535</td><td>NL-85020</td></tr><tr><td>cURus Underwriters Laboratories Inc.</td><td>UL 1977</td><td>E45171</td></tr></table></div>			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
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Approval	Standard	Certificate Name												
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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 890-223



Documentation

Bid Text			
890-223	19.02.2019	xml 2.95 KB	
890-223	08.06.2015	doc 22.50 KB	

CAD/CAE-Data

CAD data
2D/3D Models 890-223



CAE data	
EPLAN Data Portal 890-223	
WSCAD Universe 890-223	
ZUKEN Portal 890-223	

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8993/205-102
pre-assembled connecting cable; Eca;
Plug/open-ended; 3-pole; Cod. A; 1 m;
1,00 mm²; white



Item No.: 891-8993/005-102
pre-assembled interconnecting cable;
Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00
mm²; white



1.1.2 Distribution connector



Item No.: 890-684
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white



Item No.: 890-686
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white



Item No.: 890-656
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white



Item No.: 890-665
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

1.1.3 Male connector/plug



Item No.: 890-833/011-000
Plug for PCBs; angled; 3-pole; Cod. A; white



Item No.: 890-833
Plug for PCBs; straight; 3-pole; Cod. A; white



Item No.: 890-233
Plug; 3-pole; Cod. A; 1,50 mm²; white



Item No.: 890-133
Plug; with strain relief housing; 3-pole; 1,50 mm²; white



Item No.: 890-733
Snap-in plug; 3-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

1.2.2 Strain relief

1.2.2.1 Strain relief housing



Item No.: 890-503
Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black



Item No.: 890-513
Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white

1.3 Optional Accessories

1.3.1 Cover

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



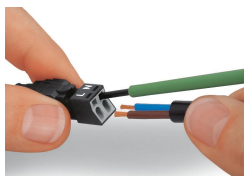
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

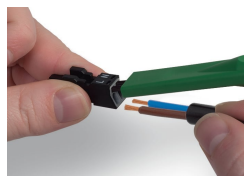
Conductor termination



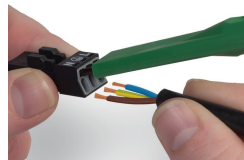
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

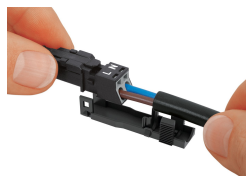


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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.

Installation



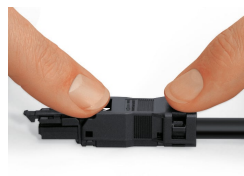
Latch the wired connector into the base of the strain relief housing.



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.

Installation



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.