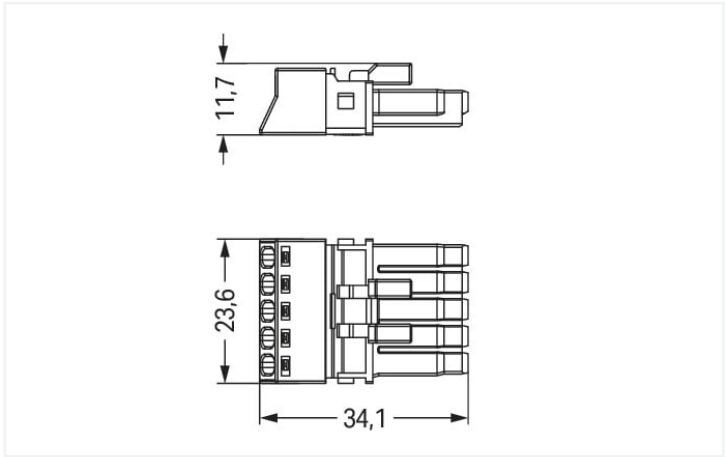




Color: ■ black



Dimensions in mm

Female connector/socket WINSTA® MINI rated current 13 A

The WINSTA® MINI female connector/socket with protection against mismatching is the pluggable solution for your use in control cabinets, for lighting connections or on PCBs. Whether 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 next to no time. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. Standard mains applications for almost any domain of use can be implemented with WINSTA® MINI pluggable installation connectors with A coding. Thanks 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 installations when very little room is available.

WINSTA® MINI solutions for your electrical installation – protected against mismatching and maintenance-free

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and errors during installation at the construction site. Now you can also lower installation costs without compromising quality and safety: with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- 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
- fast, secure installation

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	13 A	-	-	
Approvals per		UL 1977		
Rated voltage		600 V		
Rated current		12 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	5	<div>Connection 1</div> <table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Operating tool Push-in</td></tr><tr><td>Nominal cross-section</td><td>1.5 mm² / 16 AWG</td></tr><tr><td>Solid conductor</td><td>0.25 ... 1.5 mm² / 22 ... 16 AWG</td></tr><tr><td>Solid conductor; push-in termination</td><td>0.75 ... 1.5 mm² / 20 ... 16 AWG</td></tr><tr><td>Stranded conductor</td><td>0.25 ... 1 mm² / 22 ... 18 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.25 ... 1.5 mm² / 22 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.25 ... 0.75 mm² / 22 ... 20 AWG</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.25 ... 0.75 mm² / 22 ... 20 AWG</td></tr><tr><td>Fine-stranded conductor; with ferrule; push-in termination</td><td>0.75 mm² / 20 AWG</td></tr><tr><td>Strip length</td><td>9 mm / 0.35 inches</td></tr><tr><td>Pole number</td><td>5</td></tr><tr><td>Conductor entry direction to mating direction</td><td>0°</td></tr></table>	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	5	Conductor entry direction to mating direction	0°
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Pole number	5																											
Conductor entry direction to mating direction	0°																											
Total number of potentials	5																											
Physical data																												
Pin spacing	4.4 mm / 0.173 inches																											
Width	23.6 mm / 0.929 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	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: > 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		black
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		0.152 MJ
Weight		6.1 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		4055143548571
Customs tariff number		85366990990

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
 		
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
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 890-205



Documentation

Bid Text
890-205
19.02.2019
xml 2.93 KB
890-205
08.06.2015
doc 23.50 KB



CAD/CAE-Data

CAD data
2D/3D Models 890-205



CAE data
WSCAD Universe 890-205
ZUKEN Portal 890-205



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8995/206-101
pre-assembled connecting cable; Eca;
Plug/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 Male connector/plug



Item No.: 890-815/011-000
Plug for PCBs; angled; 5-pole; Cod. A; black



Item No.: 890-815
Plug for PCBs; straight; 5-pole; Cod. A; black



Item No.: 890-215
Plug; 5-pole; Cod. A; 1,50 mm²; black



Item No.: 890-115
Plug; with strain relief housing; 5-pole; 1,50 mm²; black



Item No.: 890-715
Snap-in plug; 5-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



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.: 890-505
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; black



Item No.: 890-515
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; 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.: 890-526
Shield connecting plate; 5-pole; for sockets

1.3.4 Tool

1.3.4.1 Operating tool



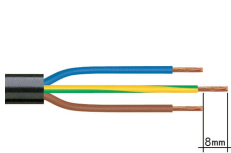
Item No.: 890-385
Operating tool; 5-way; green



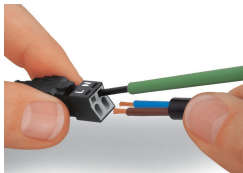
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

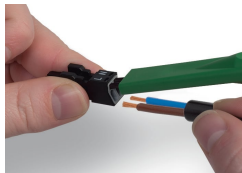
Conductor termination



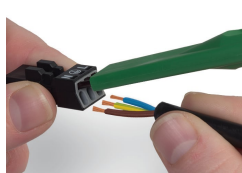
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

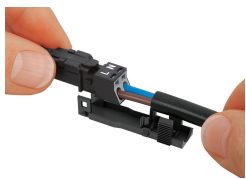


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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



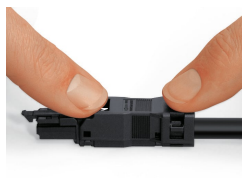
Latch the wired connector into the base of the strain relief housing.



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.