Socket; 4-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-224



	I .
_ :	
Color:	

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Item description

Female connector/socket WINSTA® MINI with protection against mismating

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MINI female connector/socket A coding. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to a huge variety of requirements in no time flat. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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 is our response to the trend toward miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for instance, since due to LED technology, these offer much less space for the connection technology.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MINI

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 protection against mismating from WAGO makes the installation of electrical components noticeably easier.

- effective protection against mismating
- easy tool-free operation, a wide range of coding options
- suitable for any application
- exact dimensions
- rapid, structured electrical installation

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	16 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

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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	12 A

General information

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

Connection data

Connection points	4
Total number of potentials	4

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
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm² / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	4
Conductor entry direction to mating direction	0°

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	19.2 mm / 0.756 inches
Height	11.7 mm / 0.461 inches

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Depth 34.1 mm / 1.343 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No
Marking	N
Potential marking	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

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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	0.109 MJ
Weight	4.9 g

Environmental requirements

Processing temperature	-5 +40 ℃
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	DE
GTIN	4045454233198
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61535	NL-85020
	CCA DEKRA Certification B.V.	EN 61535	71- 123231
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

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Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	EN 61535	08/20047 (E2)

Counterpart

Item no.890-2 3 Plug; 4-pole; Co	3 4 od. A; 1,50 mm²; white	www.wago.com/890-234
Item no.890-13 Plug; with strain	34 n relief housing; 4-pole; 1,50 mm²; white	www.wago.com/890-134
Item no.890-67 T-distribution c	76 connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/890-676
Item no.890-67 T-distribution c	77 connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	www.wago.com/890-677
Item no.890-7 3 Snap-in plug; 4	34 -pole; Cod. A; 1,50 mm²; white	www.wago.com/890-734
Item no.890-83 Plug for PCBs; s	34 straight; 4-pole; Cod. A; white	www.wago.com/890-834
Item no.890-83 Plug for PCBs; a	34/011-000 angled; 4-pole; Cod. A; white	www.wago.com/890-834/011- 000
ltem no.890-99 h-distribution c white	onnector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers;	www.wago.com/890-994
Item no.890-99 h-distribution c flying leads; wh	connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for	www.wago.com/890-995
ltem no.891-89 pre-assembled 1,50 mm²; white	Interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;	www.wago.com/891-8994 /006-102

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Item no.891-8994/206-102

pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/891-8994 /206-102

Required accessories

Strain	

Strain relief housing	
Item no.: 890-504 Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; black	www.wago.com/890-504
Item no.: 890-514	www.wogo.com/900_E1/
Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; white	www.wago.com/890-514
ocking levers	
Locking system	
Item no.: 890-111	
Locking lever; for flying leads; for tool operation; black	www.wago.com/890-111
Item no.: 890-101	/000 404
Locking lever; for manual operation; black	www.wago.com/890-101
Item no.: 890-121	
Locking lever; for manual operation; white	www.wago.com/890-121
Item no.: 890-131	1000 101
Locking lever; for flying leads; for tool operation; white	www.wago.com/890-131

Optional accessories

Shield	termin	ation

Clatia Lalita		
Shield te	rmination	
	Item no.: 890-524	www.wogo.com/900.F24
	Shield connecting plate; 4-pole; for sockets	www.wago.com/890-524
Cover		
Cover		
	Item no.: 897-2003	www.waga.com/007.2002
	Protective cap; Type2; for sockets and plugs; PVC; red	www.wago.com/897-2003
Mounting		
Mounting	gaccessories	
	Item no.: 890-310	www.waga.com/000.210
	Mounting carrier; 2- to 5-pole; for flying leads; black	www.wago.com/890-310
	Item no.: 890-311	/000.044
	Mounting carrier; 2- to 5-pole; for flying leads; white	www.wago.com/890-311
Tool		

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URL

Download

Operating tool

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

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

www.wago.com/210-719

www.wago.com/890-384

Downloads

Documentation

Bid Text

890-224 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
890-224 doc - Datei	2015 年6月8日	doc 23.0 kB	Download

CAD/CAE-Data

2D/3D Models 890-224

CAD data

CAE data		
WSCAD Universe 890-224	URL	Download
ZUKEN Portal 890-224	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-224	URL	Download
Socket; 4-pole; Cod. A; 1,50 mm²; white		

Installation Notes

Conductor termination

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 Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole) Strip length = 9 mm 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.	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.	Terminate solid conductors by simply pushing them in.
Installation	

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screwdriver alternately on both sides.

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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	Latch the top of the strain relief housing.

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Data sheet | Item number: 890-224 www.wago.com/890-224



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

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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.

Product family

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Show all products from the family

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