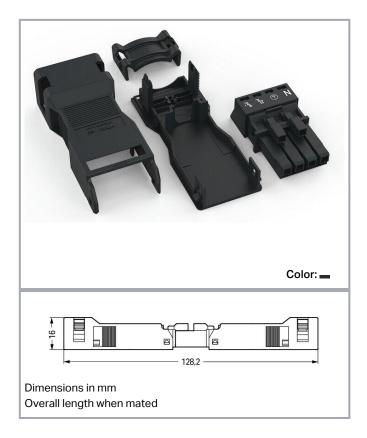
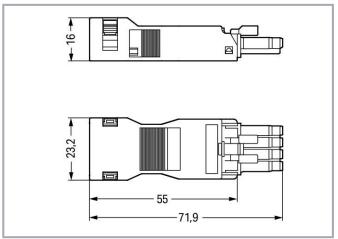
Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-104







Item description

Female connector/socket WINSTA® MINI A coding

For power and signal transmission: The WINSTA® MINI female connector/socket with protection against mismating. WAGO pluggable installation connectors can be used when criteria repeat or are distributed on a defined pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected against ingress by solid granular objects with a diameter below 1 mm in accordance with protection type IP40. General mains applications for almost any domain of use can be realised 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 very suitable in very tight spaces, i.e., for installations when very little room is available. The strip length is 45 mm.

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

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

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. 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.

- effective protection against mismating
- easy tool-free operation, a wide range of coding options
- with A coding for a large number of uses
- ready for immediate use
- fast, secure 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

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

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Total number of potentials 4

Connection 1

Push-in CAGE CLAMP®
Operating tool
Push-in
1.5 mm² / 16 AWG
0.25 1.5 mm² / 22 16 AWG
0.75 1.5 mm² / 20 16 AWG
0.25 1 mm² / 22 18 AWG
0.25 1.5 mm² / 22 16 AWG
0.25 0.75 mm² / 22 20 AWG
0.25 0.75 mm² / 22 20 AWG
0.75 mm² / 20 AWG
9 mm / 0.35 inches
4
0°
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

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	IP40

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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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).
Strain relief	strain relief housing

Material data

Note	(material	data)	
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Information on material specifications can be found here

Color	black
Cover color	gray
Material group	1
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	0.315 MJ
Weight	10.6 g

Environmental requirements

Processing temperature	-5 +40 °C
Continuous operating temperature	-35 +85 ℃
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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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
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454232863
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
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123231
	cURus Underwriters Laboratories Inc.	UL 1977	E45171



Declarations of conformity and manufacturer's declarations

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

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Approva	ls fo	r marine app	lications
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Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
ONV COM/AF	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
OF THE AMERICAN	LR Lloyds Register	EN 61535	08/20047 (E2)

Counterpart

FEE	Item no.890-114 Plug; with strain relief housing; 4-pole; 1,50 mm²; black	www.wago.com/890-114	
	Item no.890-214	www.wago.com/890-214	
	Plug; 4-pole; Cod. A; 1,50 mm²; black	www.wago.com/000 214	
*	Item no.890-626		
	T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/890-626	
*	Item no.890-627	www.waga.com/900_627	
	T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/890-627	
The sells	Item no.890-714		
	Snap-in plug; 4-pole; Cod. A; 1,50 mm²; black	www.wago.com/890-714	
	Item no.890-814	www.wogo.com/900.914	
	Plug for PCBs; straight; 4-pole; Cod. A; black	www.wago.com/890-814	
The same	Item no.890-814/011-000	www.wago.com/890-814/011-	
	Plug for PCBs; angled; 4-pole; Cod. A; black	000	
	Flug for FCBS, angled, 4-pole, Cod. A, black	000	
¥.	Item no.890-944		
	h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers;	www.wago.com/890-944	
	black		

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www.wago.com/890-104





Item no.890-945

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for www.wago.com/890-945 flying leads; black

Item no.891-8994/206-101

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

www.wago.com/891-8994

/206-101

Item no.891-8994/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;

1,50 mm²; black

1,50 mm²; black

www.wago.com/891-8994 /006-101

Required accessories

Locking 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

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

Locking lever; for flying leads; for tool operation; white

www.wago.com/890-131

Optional accessories

Tool

Operating tool



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719



Item no.: 890-384

Operating tool; 4-way; green

www.wago.com/890-384

Mounting

Mounting accessories

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Item no.: 890-310 Mounting carrier; 2- to 5-pole; for flying leads; black www.wago.com/890-310



Item no.: 890-311

Mounting carrier; 2- to 5-pole; for flying leads; white

www.wago.com/890-311

Cover

Cover



Item no.: 897-2003

Protective cap; Type2; for sockets and plugs; PVC; red

www.wago.com/897-2003

Shield termination

Shield termination



Item no.: 890-524

Shield connecting plate; 4-pole; for sockets

www.wago.com/890-524

Downloads

Documentation

Bid Text

890-104 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
890-104 doc - Datei	2015 Jun 8	doc 23.6 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 890-104 URL Download

CAE data

ZUKEN Portal 890-104 URL Download

WSCAD Universe 890-104 URL Download

Asset Administration Shell

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Asset Administration Shell 890-104

URL Download

Environmental Product Compliance

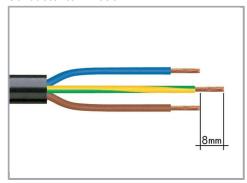
Compliance Search

Environmental Product Compliance 890-104 Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm²; black URL

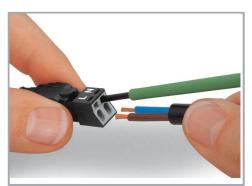
Download

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.

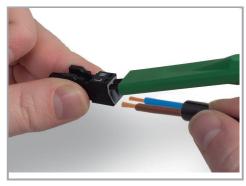
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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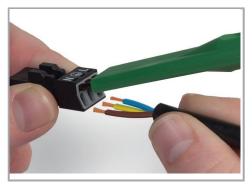
www.wago.com/890-104





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.

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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

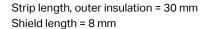
Shield termination



Connector with shield termination



Apply the shield to the sheathed cable.





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

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Show all products from the family

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