





Item description

Female connector/socket WINSTA® MINI with protection type IP20

For signal and power transmission: The *WINSTA®* MINI female connector/socket rated current 16 A. WAGO pluggable installation connectors are useful when criteria repeat or are distributed on a defined pattern, 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. Standard mains applications for almost any domain of use can be realised with *WINSTA®* MINI pluggable installation connectors with A coding. *WINSTA®* MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is very good 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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It offers error-free installation of cables and components, quickly and reliably. Choose durability and quality – the *WINSTA*® MINI pluggable installation connector with protection against mismating from WAGO makes the installation of electrical components visibly easier.

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

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com

Data sheet | Item number: 890-204

www.wago.com/890-204



- pluggable installation connectors with protection against mismating
- 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
- ready to install and use immediately
- 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

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

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

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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
Depth	34.1 mm / 1.343 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No
Marking	N ≟ 2/L 1/L'
Potential marking	N ≟ 2/L 1/L'
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 <i>WINSTA[®]</i> components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180

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	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	VO
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 °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

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Country of origin	PL
GTIN	4055143548557
Customs tariff number	85366990990

Compliant,No Exemption

Environmental Product Compliance

RoHS Compliance Status

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123231
	CCA DEKRA Certification B.V.	IEC 61535	NL-85020
c SN °us	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	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
CF			

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
ABS:	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
	DNV GL	-	TAE00001Z6

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	LR EN	61535	08/20047
THE ADDRESS OF THE AD	Lloyds Register		(E2)
ounterpar	t		
E	ltem no.890-114		
	Plug; with strain relief housing; 4-pole; 1,50 mm²; black		www.wago.com/890-114
A B	ltem no.890-214		www.wago.com/890-214
Value	Plug; 4-pole; Cod. A; 1,50 mm²; black		
	Item no.890-626 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 lo	ocking levers: black	www.wago.com/890-626
	Item no.890-627		www.wago.com/890-627
	T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 lo	ocking levers; for flying leads; black	
	Item no.890-714 Snap-in plug; 4-pole; Cod. A; 1,50 mm²; black		www.wago.com/890-714
	Item no.890-814 Plug for PCBs; straight; 4-pole; Cod. A; black		www.wago.com/890-814
	Item no.890-944 h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; our black	tputs on one side; 2 locking levers;	www.wago.com/890-944
	Item no.890-814/011-000 Plug for PCBs; angled; 4-pole; Cod. A; black		www.wago.com/890-814/01 000
	Item no.890-945 h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; ou flying leads; black	tputs on one side; 3 locking levers; for	www.wago.com/890-945
C Dilla	Item no.891-8994/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 4-pol 1,50 mm²; black	e; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;	www.wago.com/891-8994 /006-101
	Item no.891-8994/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 4-pc 1,50 mm ² ; black	le; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;	www.wago.com/891-8994 /206-101

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Required accessories

_ocking leve	'S	
Locking sys		
	Item no.: 890-111 Locking lever; for flying leads; for tool operation; black	www.wago.com/890-111
P	Item no.: 890-101 Locking lever; for manual operation; black	www.wago.com/890-101
P	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
train relief		
Strain relief	nousing	
	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
3 10	Item no.: 890-514 Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; white	www.wago.com/890-514
Optional ac Tool Operating t	ool	
	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		
-	ccessories	

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

Sec.	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 termi	nation	
Shield tern	nination	
100	Item no.: 890-524 Shield connecting plate; 4-pole; for sockets	www.wago.com/890-524

Downloads

Documentation

 Bid Text
 2019 Feb 19
 xml 2000 Normality

 890-204 X81 - Datei
 3.0 kB
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 2015 Jun 8
 doc 23.6 kB

CAD/CAE-Data

CAD data 2D/3D Models 890-204 URL Download CAE data WSCAD Universe 890-204 URL Download ZUKEN Portal 890-204 URL Download

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-204 Socket; 4-pole; Cod. A; 1,50 mm²; black

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.

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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



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

them in.



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



Push down strain relief clamp by hand.

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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

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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

WINSTA® MINI Show all products from the family

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