Plug; 5-pole; Cod. B; 1,50 mm²; gray

www.wago.com/890-255



	I .
Color:	

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

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Item description

Male connector/plug WINSTA® MINI with protection type IP20

The WINSTA® MINI male connector/plug 5-pole allows installation of fine-stranded and solid conductors. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to various requirements in no time flat. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. B coding enables the WINSTA® MINI pluggable installation connectors to be used for application control in the domains of automation, robotics, and mechanical engineering. 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 restricted spaces, i.e., for installations when very little room is available.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Now you can also reduce installation costs without compromising quality and safety: with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

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- protection against mismating eliminates errors
- easy tool-free operation, a wide range of coding options
- for automation controllers
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

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Variants: Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.

Electrical data

Ratings per IEC/EN

Ratings per IEC/EN 60664-1

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Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	16 A
Note (rated current)	13 A for 3-pole load
	10 A for 4- and 5-pole load
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	5
Total number of potentials	5

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 mm ² / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	5

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Conductor entry direction to mating direction 0°

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	Control technology
Coding	В
Variable coding	No
Marking	5 4 3 2 1
Potential marking	5 4 3 2 1
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 when mated with strain relief housing

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
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).

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Material Data

Note (material data)

Information on material specifications can be found here

Color	gray
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	0.141 MJ
Weight	5.6 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	4055143499736
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

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Certificate

name

08/20047 (E2)

TAE00001Z6

Logo	Approval	Additional Approval Text	name
	СВ	EN 61984	NL-64351
	DEKRA Certification B.V.		
	СВ	EN 61984	71-112993
	DEKRA Certification B.V.		
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		
	KEMA/KEUR	EN 60320	2148952.04
)eclaratior	KEMA/KEUR DEKRA Certification B.V. as of conformity and manufacturer's declarations	EN 60320	2148952.04
	DEKRA Certification B.V.	EN 60320 Additional Approval Text	2148952.04 Certificate name
	DEKRA Certification B.V. as of conformity and manufacturer's declarations		Certificate
	DEKRA Certification B.V. s of conformity and manufacturer's declarations Approval		Certificate name
Declaratior Logo	DEKRA Certification B.V. as of conformity and manufacturer's declarations Approval EU-Declaration of Conformity		Certificate name

Additional Approval Text

EN 61535

C	ou	nt	er	na	rt

Logo

Approval

DNV GL

Lloyds Register

Item no.890-245	www.wago.com/890-245
Socket; 5-pole; Cod. B; 1,50 mm²; gray	
Item no.890-745	www.wago.com/890-745
Snap-in socket; 5-pole; Cod. B; 1,50 mm²; gray	www.wago.com/690-745
Item no.891-8995/005-103	www.wago.com/891-8995/005-103
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; 1 m; 1,00 mm²; gray	www.wago.com/691-6993/003-103
Item no.890-845/011-000	www.wago.com/890-845/011-000
Socket for PCBs; angled; 5-pole; Cod. B; gray	www.wago.com/890-843/011-000
Item no.890-845	www.wago.com/890-845
Socket for PCBs; straight; 5-pole; Cod. B; gray	www.wago.com/650-645
Item no.891-8995/105-103	www.wago.com/891-8995/105-103
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. B; 1 m; 1,00 mm²; gray	www.wago.com/031-0393/103-103

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www.wago.com/890-515

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
Strain relief	
Strain relief housing	
Item no.: 890-505	www.wago.com/890-505
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; black	www.wago.com/690-505

Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white

Optional accessories

Item no.: 890-515

Mounting

Mountin	g accessories	
	Item no.: 890-310	www.wogo.com/000.210
	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
Tool		
Operatir	ng tool	
	Item no.: 210-719	www.wogo.com/210.710
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
	Item no.: 890-385	
	Operating tool; 5-way; green	www.wago.com/890-385

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Downloads Documentation

Bid Text

890-255 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
890-255 doc - Datei	2015 年6月8日	doc 24.1 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 890-255	URL	Download
CAE data		
ZUKEN Portal 890-255	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-255	URL	Download
Plug; 5-pole; Cod. B; 1,50 mm²; gray		

Installation Notes

Conductor termination

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- 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.	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	
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.
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Data sheet Item number: 890-255 www.wago.com/890-255		N/AG
The printed marking of the connector is clearly visible in the openings of the strain relief housing.		
Mismating protection		
B-coded connectors with different colors can be plugged together. Important note: Different colors and/or pole markings are used for circuit identification. Only connectors of the same color and same pole marking must be plugged together.	B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.	
Product family		

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Show all products from the family

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