

## Item description

### Male connector/plug *WINSTA*® MINI 3-pole

The *WINSTA*® MINI male connector/plug with protection type IP20 is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow fast, efficient, error-free installation in numerous applications. The coding options reduce installation errors, allowing fast, secure wiring of all components. B coding enables the *WINSTA*® MINI pluggable installation connectors to be used for control in applications in the domains of automation, robotics, and mechanical engineering. *WINSTA*® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for example, since as a result of LED technology; due to complex systems, these offer much less space for the connection technology.

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

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



The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Now you can also lower installation costs without compromising quality and safety: The WINSTA® MINI pluggable installation connector with protection type IP20 reduces the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismatching
- easy tool-free operation, a wide range of coding options
- with B coding for controllers, for example lighting fixtures and sun blinds
- ready to install and use immediately
- quick replacement of defective units during ongoing operation

## Data Notes

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
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	16 A
Note (rated current)	13 A for 3-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	14 A

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## General

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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## Connection data

Connection points	3
Total number of potentials	3

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	1.5 mm <sup>2</sup> / 16 AWG
Solid conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Solid conductor; push-in termination	0.75 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Stranded conductor	0.25 ... 1 mm <sup>2</sup> / 22 ... 18 AWG
Fine-stranded conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm <sup>2</sup> / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	3
Conductor entry direction to mating direction	0°

## Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	15 mm / 0.591 inches
Height	11.7 mm / 0.461 inches
Depth	34.1 mm / 1.343 inches

## Mechanical Data

Application	Control technology
Coding	B
Variable coding	No
Marking	N $\frac{1}{2}$ L

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Potential marking	N $\neq$ 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 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 <i>WINSTA</i> <sup>®</sup> 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	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	0.111 MJ
Weight	6 g

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

## 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


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	4055143499927
Customs tariff number	85366990990

## Environmental Product Compliance


RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-64351
	<b>CB</b> DEKRA Certification B.V.	EN 61984	71- 112993


### Declarations of conformity and manufacturer's declarations

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



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### Approvals for marine applications





Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	EN 61535	08/20047 (E2)

### Counterpart

	Item no.890-243/060-000 Socket; 3-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/890-243/060-000">www.wago.com/890-243/060-000</a>
	Item no.890-743/060-000 Snap-in socket; 3-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/890-743/060-000">www.wago.com/890-743/060-000</a>

### Required accessories

#### Locking levers

Locking system		
	Item no.: 890-111 Locking lever; for flying leads; for tool operation; black	<a href="http://www.wago.com/890-111">www.wago.com/890-111</a>
	Item no.: 890-101 Locking lever; for manual operation; black	<a href="http://www.wago.com/890-101">www.wago.com/890-101</a>
	Item no.: 890-121 Locking lever; for manual operation; white	<a href="http://www.wago.com/890-121">www.wago.com/890-121</a>
	Item no.: 890-131 Locking lever; for flying leads; for tool operation; white	<a href="http://www.wago.com/890-131">www.wago.com/890-131</a>

#### Strain relief

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



**Item no.: 890-513**

Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white

[www.wago.com/890-513](http://www.wago.com/890-513)



**Item no.: 890-503**

Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black

[www.wago.com/890-503](http://www.wago.com/890-503)

## Optional accessories

### Cover

Cover



**Item no.: 897-2001**

Protective cap; Type1; for sockets and plugs; PVC; red

[www.wago.com/897-2001](http://www.wago.com/897-2001)

### 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](http://www.wago.com/210-719)



**Item no.: 890-383**

Operating tool; 3-way; green

[www.wago.com/890-383](http://www.wago.com/890-383)

### Mounting

Mounting accessories



**Item no.: 890-310**

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

[www.wago.com/890-310](http://www.wago.com/890-310)



**Item no.: 890-311**

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

[www.wago.com/890-311](http://www.wago.com/890-311)

## Downloads

### Documentation

#### Bid Text

890-253/060-000 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
890-253/060-000	2015 Jun 8	doc 24.1 kB	Download

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



doc - Datei

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## CAD/CAE-Data

### CAE data

WSCAD Universe 890-253/060-000	<a href="#">URL</a>	<a href="#">Download</a>
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ZUKEN Portal 890-253/060-000	<a href="#">URL</a>	<a href="#">Download</a>
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WSCAD Universe 890-253/060-000	<a href="#">URL</a>	<a href="#">Download</a>
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### CAD data

2D/3D Models 890-253/060-000	<a href="#">URL</a>	<a href="#">Download</a>
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 890-253/060-000	<a href="#">URL</a>	<a href="#">Download</a>
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Plug; 3-pole; 1,50 mm<sup>2</sup>; gray

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## Installation Notes

### Conductor termination

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

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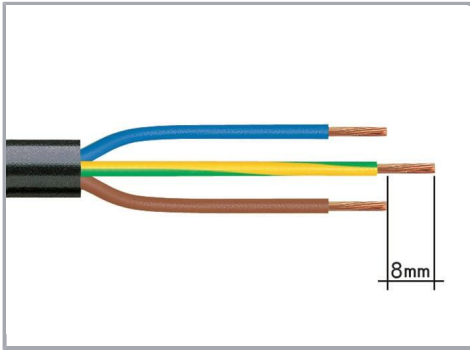
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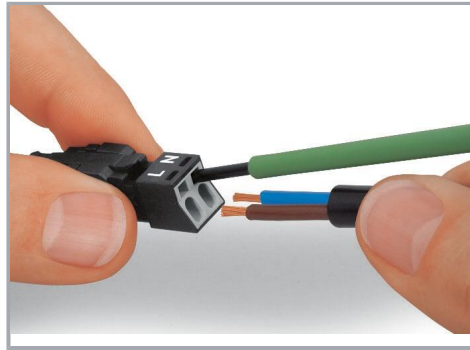




1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

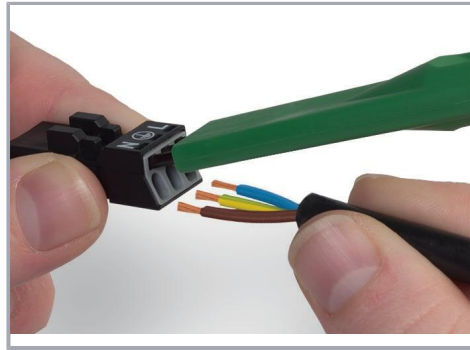
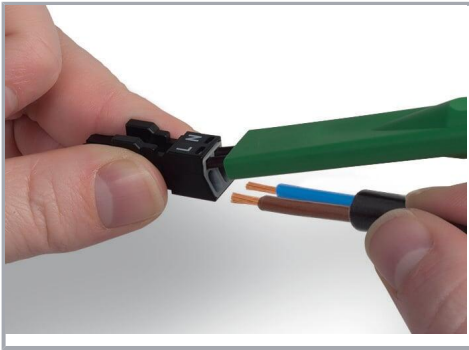
3. Extended ground conductor = 8 mm



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.

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



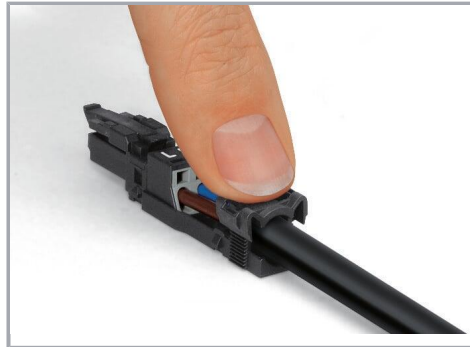
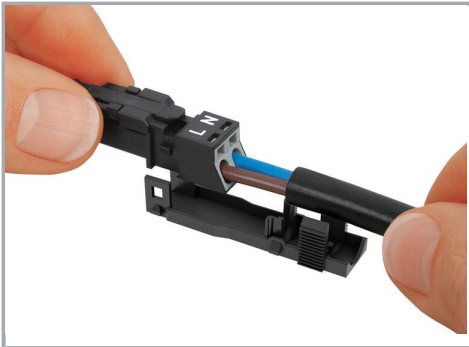
To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.

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



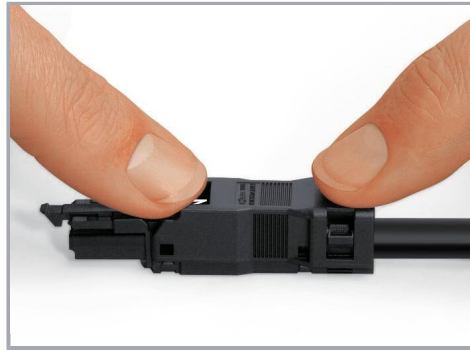
Latch the wired connector into the base of the strain relief housing.

Push down strain relief clamp by hand.

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



Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



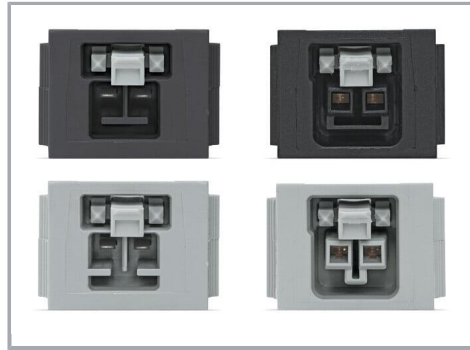
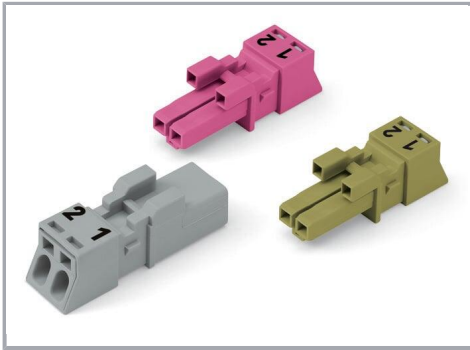
Latch the top of the strain relief housing.



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

#### Mismatching protection

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



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**

**WINSTA® MINI**

[Show all products from the family](#)

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