

**Data sheet | Item number: 890-753**

Snap-in plug; 3-pole; Cod. B; 1,50 mm<sup>2</sup>; gray

[www.wago.com/890-753](http://www.wago.com/890-753)



**Color:**

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

## Item description

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

The *WINSTA*® MINI male connector/plug rated current 16 A is the pluggable solution for your application in control cabinets, on PCBs or for lighting connections. WAGO pluggable installation connectors are useful when specifications repeat or are planned on a defined grid, for example for

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installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. 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 is our response to the trend toward miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for instance, since as a result of LED technology; due to complex systems, these offer significantly 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 optimally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Choose durability and quality – with protection type IP20 from WAGO makes the installation of electrical components noticeably easier.

- protection against mismatching eliminates errors
- easy tool-free operation, a wide range of coding options
- for automation controllers
- custom-engineered solutions
- convenient installation and commissioning

## Data Notes

Note	<p>The snap-in connectors must be relieved of tensile and transverse forces.</p> <p>A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use.</p> <p>In addition, the punched edge should be on the inside for punched cutouts.</p> <p>The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position).</p>
Variants:	<p>Other pole markings</p> <p>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a>.</p>

## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
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Subject to changes. Please also observe the further product documentation!



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) $\triangleq$ 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

### General information

Note on contact resistance	approx. 1 m $\Omega$ of contact resistance approx. 0.25 m $\Omega$ 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 <sup>®</sup>
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°

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



## Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	24.2 mm / 0.953 inches
Height	16 mm / 0.63 inches
Depth	39.85 mm / 1.569 inches

## Mechanical Data

Application	Control technology
Coding	B
Variable coding	No
Marking	3 2 1
Potential marking	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
Housing sheet thickness	0.5 ... 2 mm / 0.02 ... 0.079 inches
Mounting type	Snap-in flange
Protection type	IP20; IP40 when mated

## 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	yes
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).

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



## 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	0.178 MJ
Weight	5.5 g

## Environmental requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures $\leq$ 105 °C

## Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-02
eCl@ss 9.0	27-44-06-02
ETIM 8.0	EC002566
ETIM 7.0	EC002566
PU (SPU)	50 (50) pcs
Packaging type	box
Country of origin	PL
GTIN	4055143427852
Customs tariff number	85366990990

## Environmental Product Compliance

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

### General approvals

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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
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60320	2148952.04

#### 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	-	-

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	<b>LR</b> Lloyds Register	EN 61535	08/20047 (E2)

#### Counterpart

<b>Item no.890-243</b> Socket; 3-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/890-243">www.wago.com/890-243</a>
<b>Item no.891-8993/005-103</b> pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/891-8993/005-103">www.wago.com/891-8993/005-103</a>
<b>Item no.891-8993/105-103</b> pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/891-8993/105-103">www.wago.com/891-8993/105-103</a>

#### Optional accessories

##### Tool

Operating tool	
<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
<b>Item no.: 890-383</b>	

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Operating tool; 3-way; green

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

Cover

**Item no.: 890-643**

Lockout cap; 3-pole; for cutouts; Plastic; black

[www.wago.com/890-643](http://www.wago.com/890-643)**Item no.: 890-693**

Lockout cap; 3-pole; for cutouts; Plastic; white

[www.wago.com/890-693](http://www.wago.com/890-693)**Downloads****Documentation****Bid Text**

890-753 X81 - Datei	2019 年2月19 日	xml 3.0 kB	Download
890-753 doc - Datei	2018 年11月30 日	doc 23.6 kB	Download

**CAD/CAE-Data****CAD data**

2D/3D Models 890-753	URL	Download
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**CAE data**

EPLAN Data Portal 890-753	URL	Download
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ZUKEN Portal 890-753	URL	Download
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WSCAD Universe 890-753	URL	Download
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**Environmental Product Compliance****Compliance Search**

Environmental Product Compliance 890-753 Snap-in plug; 3-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray	URL	Download
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## Installation Notes

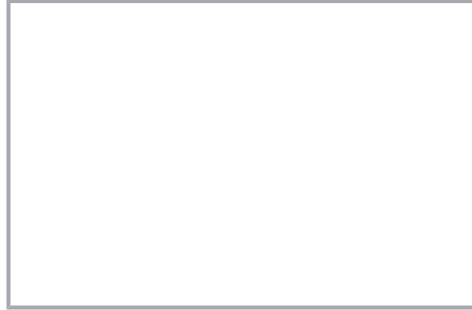
### Conductor termination



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.



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.

### Mismatching protection

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



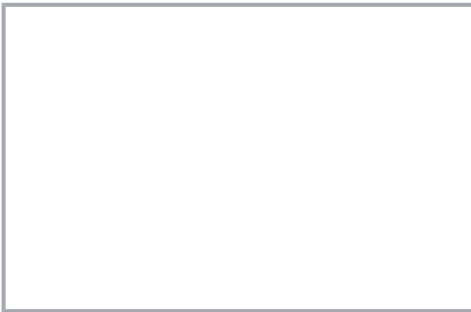
B-coded connectors with different colors can be plugged together.

**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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