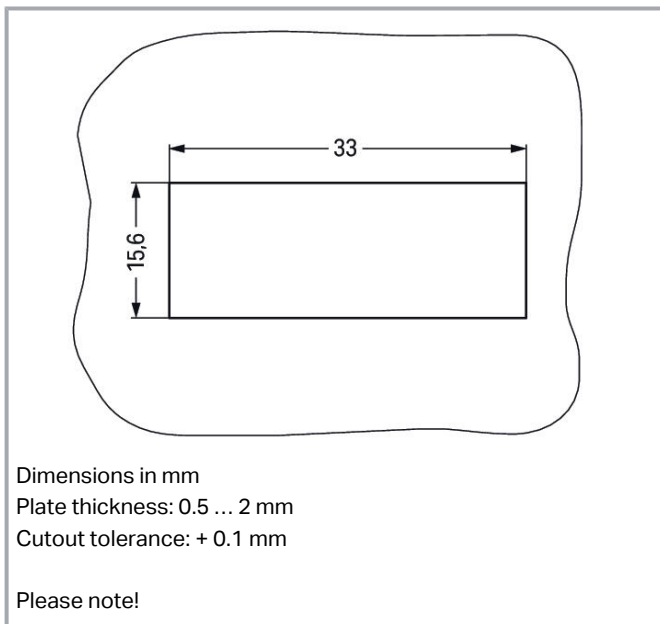
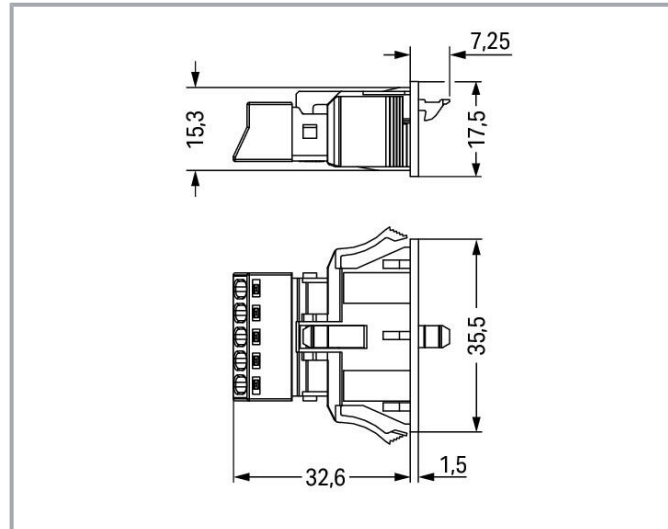
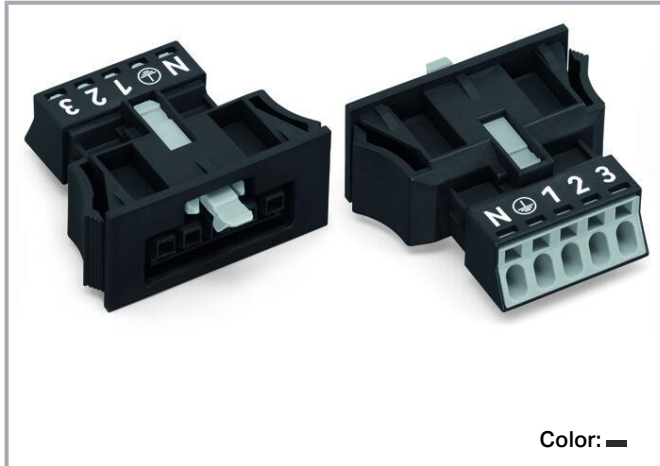


## Data sheet | Item number: 890-705

Snap-in socket; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; black

[www.wago.com/890-705](http://www.wago.com/890-705)



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

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## Item description

### Female connector/socket WINSTA® MINI with protection type IP40

For signal and power transmission: The WINSTA® MINI female connector/socket with protection type IP40. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to a huge variety of requirements in next to no time. 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. Thanks to the color coding and mechanical A coding of WINSTA® MINI pluggable installation connectors, you can clearly distinguish different circuits. Especially where space is tight, our smallest pluggable connection system, WINSTA® MINI, conveniently displays its advantageous properties. It is very compact, and, thanks to Push-in CAGE CLAMP® spring pressure connection technology, it also saves time, since the connection is low-maintenance and can be performed without screw connections.

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

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Now you can also cut installation costs without compromising safety and quality: with protection type IP40 eliminates the need for servicing and prevents unnecessary downtime.

- 
- pluggable installation connectors with protection against mismatching
- consistent IP40 protection
- for any mains application
- exact dimensions
- quick replacement of defective units during ongoing operation

## Data Notes

### Note

The snap-in connectors must be relieved of tensile and transverse forces.

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. In addition, the punched edge should be on the inside for punched cutouts.

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).

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

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## 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	13 A
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	12 A

## General information

Note on contact resistance	approx. 1 m $\Omega$ of contact resistance approx. 0.25 m $\Omega$ 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 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

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



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	5
Conductor entry direction to mating direction	0 °

## Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	35.5 mm / 1.398 inches
Height	17.5 mm / 0.689 inches
Depth	39.85 mm / 1.569 inches

## Mechanical data

Application	General mains applications
Coding	A
Variable coding	No
Marking	N $\perp$ 1 2 3
Potential marking	N $\perp$ 1 2 3
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	IP40

## Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All WINSTA <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

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



## 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	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.261 MJ
Weight	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	27-44-06-02
eCl@ss 9.0	27-44-06-02
ETIM 8.0	EC002566
ETIM 7.0	EC002566
ECCN	NO DATA
PU (SPU)	50 (50) pcs
Packaging type	box
Country of origin	PL
GTIN	4045454233433
Customs tariff number	85366990990

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## Environmental Product Compliance

RoHS Compliance Status



Compliant, No Exemption

## Approvals / Certificates



### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61535	71-123231
	<b>CCA</b> DEKRA Certification B.V.	IEC 61535	NL-85020
	<b>cULus</b> Underwriters Laboratories Inc.	UL 1977	E45171

### 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>ABS</b> American Bureau of Shipping	Steel Vessel Rules	19-HG1869855-PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	<b>LR</b>	EN 61535	08/20047

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Lloyds Register

(E2)

## Counterpart

**Item no. 890-115**Plug; with strain relief housing; 5-pole; 1,50 mm<sup>2</sup>; black[www.wago.com/890-115](http://www.wago.com/890-115)**Item no. 890-215**Plug; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; black[www.wago.com/890-215](http://www.wago.com/890-215)**Item no. 891-8995/006-101**pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black[www.wago.com/891-8995/006-101](http://www.wago.com/891-8995/006-101)**Item no. 891-8995/206-101**pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black[www.wago.com/891-8995/206-101](http://www.wago.com/891-8995/206-101)

## Optional accessories

### Cover

Cover

**Item no.: 770-693**

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

[www.wago.com/770-693](http://www.wago.com/770-693)**Item no.: 770-643**

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

[www.wago.com/770-643](http://www.wago.com/770-643)

### 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.: 890-385**

Operating tool; 5-way; green

[www.wago.com/890-385](http://www.wago.com/890-385)

## Downloads

### Documentation

#### Bid Text

890-705

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## CAD/CAE-Data

### CAD data

2D/3D Models 890-705	URL	Download
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### CAE data

WSCAD Universe 890-705	URL	Download
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ZUKEN Portal 890-705	URL	Download
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EPLAN Data Portal 890-705	URL	Download
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### Asset Administration Shell

Asset Administration Shell 890-705	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 890-705	URL	Download
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Snap-in socket; 5-pole; Cod. A; 1,50 mm<sup>2</sup>; black

## Installation Notes

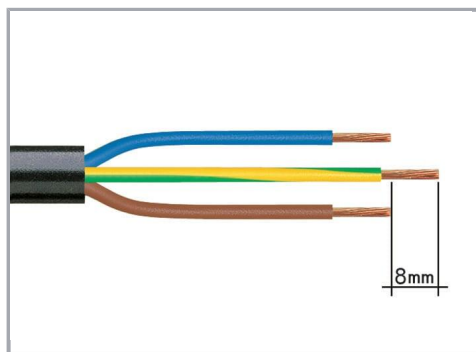
### Conductor termination

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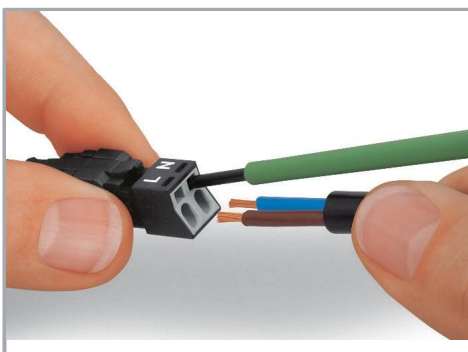
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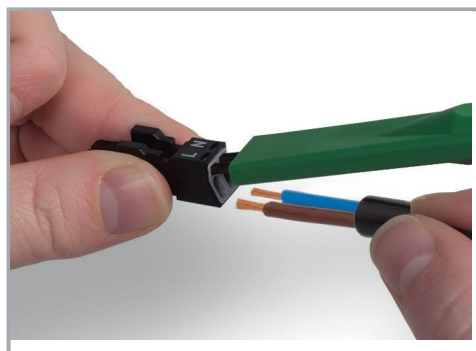




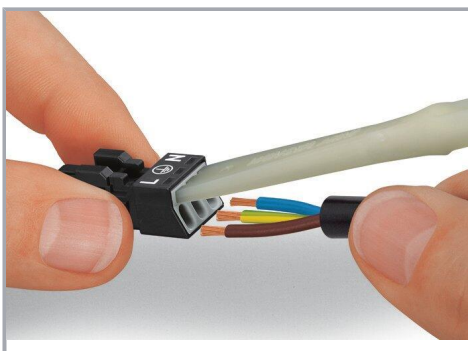
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



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.



## Product family

### WINSTA® MINI

[Show all products from the family](#)

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