

**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)



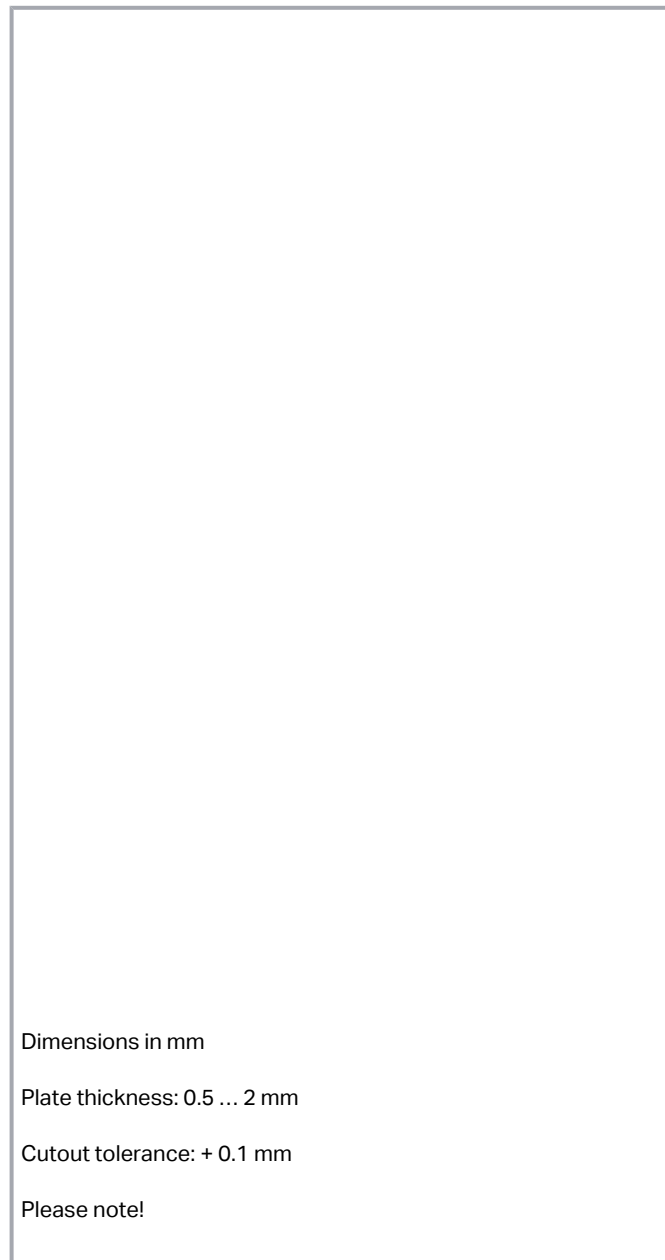
**Color:**

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Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

## Item description

### Female connector/socket *WINSTA*® MINI with protection against mismatching

The *WINSTA*® MINI female connector/socket 5-pole allows assembly of fine-stranded and solid conductors. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow resource-efficient, error-free installation in

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numerous applications. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector is protected in accordance with protection type IP40. Users' hands and tools will never come into contact with live elements. Thanks to the color coding and mechanical A coding of *WINSTA*<sup>®</sup> MINI pluggable installation connectors, you can clearly distinguish different circuits. *WINSTA*<sup>®</sup> MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is very good for lights, for instance, since as a result of LED technology; due to complex systems, these offer significantly less space for the connection technology.

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

*WINSTA*<sup>®</sup> is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Choose durability and quality – the *WINSTA*<sup>®</sup> MINI pluggable installation connector with protection type IP40 from WAGO makes the installation of electrical components significantly easier.

- protection against mismatching eliminates errors
- compact design for conductors with a cross-section up to 1.5 mm<sup>2</sup>
- with A coding for a large number of uses
- flexible installation to save space
- 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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### **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

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Rated current	13 A
Legend (ratings)	(III / 3) $\hat{=}$ 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
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### Connection data

Connection points	5
Total number of potentials	5

### 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	5
Conductor entry direction to mating direction	0°

### Physical data

Pin spacing	4.4 mm / 0.173 inches
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Subject to changes. Please also observe the further product documentation!



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 $\nabla$ 1 2 3
Potential marking	N $\nabla$ 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 <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).

## Material Data

Note (material data)

Information on material specifications can be found here

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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	0.226 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
PU (SPU)	50 (50) pcs
Packaging type	box
Country of origin	PL
GTIN	4045454233433
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
	CCA	EN 61535	71-

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DEKRA Certification B.V.		123231
<b>CCA</b> DEKRA Certification B.V.	IEC 61535	NL-85020
<b>cURus</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> Lloyds Register	EN 61535	08/20047 (E2)

#### Counterpart

<b>Item no.890-115</b> Plug; with strain relief housing; 5-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-115">www.wago.com/890-115</a>
<b>Item no.890-215</b> Plug; 5-pole; Cod. A; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-215">www.wago.com/890-215</a>
<b>Item no.891-8995/006-101</b> 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	<a href="http://www.wago.com/891-8995/006-101">www.wago.com/891-8995/006-101</a>
<b>Item no.891-8995/206-101</b> 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	<a href="http://www.wago.com/891-8995/206-101">www.wago.com/891-8995/206-101</a>

#### Optional accessories

##### Cover

<b>Item no.: 770-693</b> Lockout cap; 3-pole; for cutouts; Plastic; white	<a href="http://www.wago.com/770-693">www.wago.com/770-693</a>
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**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 X81 - Datei	2019 年2月19 日	xml 3.0 kB	Download
890-705 doc - Datei	2018 年11月30 日	doc 23.6 kB	Download

**CAD/CAE-Data**

**CAD data**

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

WSCAD Universe 890-705	URL	Download
ZUKEN Portal 890-705	URL	Download
EPLAN Data Portal 890-705	URL	Download

**Environmental Product Compliance**

**Compliance Search**

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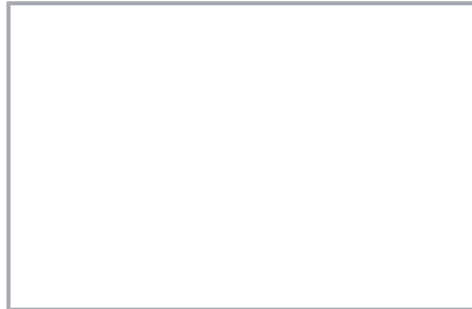
## Installation Notes

### 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.

## Product family

**WINSTA® MINI**

[Show all products from the family](#)

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