

**Data sheet | Item number: 890-1684**

h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white

[www.wago.com/890-1684](http://www.wago.com/890-1684)



**Color:**

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

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## Item description

### Distribution connector *WINSTA*® MINI A coding

The *WINSTA*® MINI distribution connector with locking latch supports fast, reliable installation. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to a huge variety of requirements in no time flat. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The *WINSTA*® MINI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. *WINSTA*® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is very good for lights, for example, since due to LED technology, these offer less and 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 ideally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Now you can also reduce installation costs without compromising quality and safety: The *WINSTA*® MINI pluggable installation connector with locking lever reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- consistent IP40 protection
- with A coding for a large number of uses
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

## Data

### 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
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

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## 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

## Connection data

Total number of potentials	2
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## Connection 1

Pole number	2
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## Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	12 mm / 0.472 inches
Height	29 mm / 1.142 inches
Depth	57.85 mm / 2.278 inches

## Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No
Marking	L N
Potential marking	L N
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	When 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
Type of distribution box	h-distribution connector, outputs at one end

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Protection type	IP20; IP40 when mated
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## Plug-in connection

Contact type (pluggable connector)	Socket/plug
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).
Number of locking levers	

## Material Data

Note (material data)	Information on material specifications can be found here
Color	white
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.174 MJ
Weight	9.9 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

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## Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-03
eCl@ss 9.0	27-44-06-03
ETIM 8.0	EC002567
ETIM 7.0	EC002567
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454404420
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>CCA</b> DEKRA Certification B.V.	IEC 61535	NL-85020
	<b>CCA</b> DEKRA Certification B.V.	EN 61535	71- 123231
	<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-

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		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.890-122</b> Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-122">www.wago.com/890-122</a>
<b>Item no.890-132</b> Plug; with strain relief housing; 2-pole; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-132">www.wago.com/890-132</a>
<b>Item no.890-222</b> Socket; 2-pole; Cod. A; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-222">www.wago.com/890-222</a>
<b>Item no.890-232</b> Plug; 2-pole; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-232">www.wago.com/890-232</a>
<b>Item no.891-8992/005-102</b> pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/891-8992/005-102">www.wago.com/891-8992/005-102</a>
<b>Item no.891-8992/105-102</b> pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/891-8992/105-102">www.wago.com/891-8992/105-102</a>
<b>Item no.891-8992/205-102</b> pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/891-8992/205-102">www.wago.com/891-8992/205-102</a>

## Optional accessories

### Mounting

Mounting accessories	
<b>Item no.: 890-1622</b> Mounting plate; 2-pole; for distribution connectors; black	<a href="http://www.wago.com/890-1622">www.wago.com/890-1622</a>
<b>Item no.: 890-1672</b> Mounting plate; 2-pole; for distribution connectors; white	<a href="http://www.wago.com/890-1672">www.wago.com/890-1672</a>

## Downloads

### Documentation

#### Bid Text

890-1684 X81 - Datei	2019 年2月19日	xml 2.8 kB	Download
890-1684	2014 年11月20日	doc	Download

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doc - Datei

23.0 kB

## CAD/CAE-Data

### CAD data

2D/3D Models 890-1684	URL	Download
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### CAE data

EPLAN Data Portal 890-1684	URL	Download
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WSCAD Universe 890-1684	URL	Download
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ZUKEN Portal 890-1684	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 890-1684	URL	Download
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## Installation Notes

### Installation



Secure the mounting plate via pins.

## Product family

**WINSTA® MINI**

[Show all products from the family](#)

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