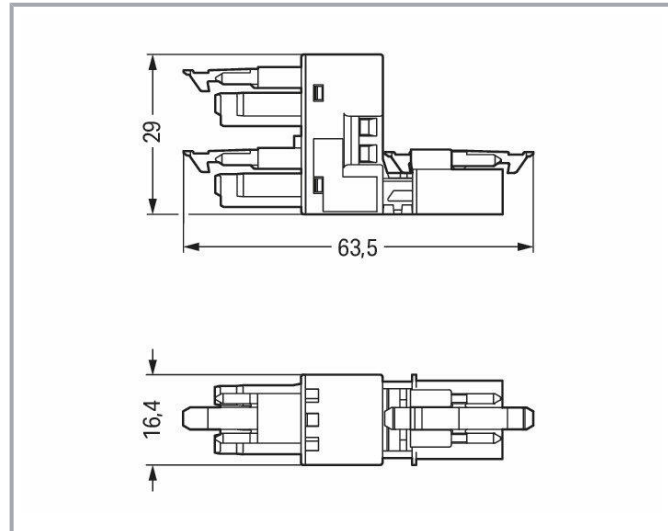
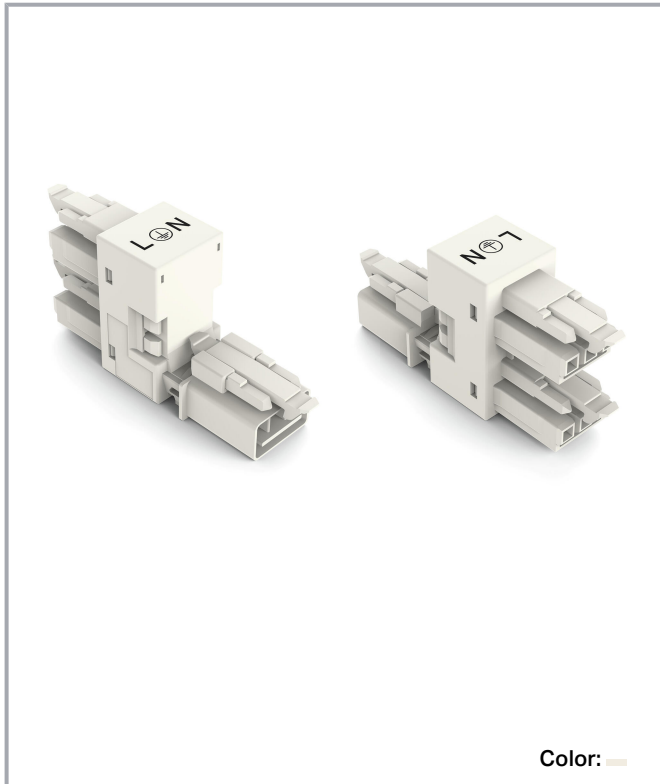


## Data sheet | Item number: 890-686

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white

[www.wago.com/890-686](http://www.wago.com/890-686)



### Item description

#### Distribution connector **WINSTA®** MINI rated current 16 A

Use effective pluggable connections instead of laborious screw connections: With the **WINSTA®** MINI distribution connector with protection against mismatching. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in seconds. The coding options reduce installation errors, allowing fast, secure wiring of all components. Thanks to the color coding and mechanical A coding of **WINSTA®** MINI pluggable installation connectors, you can clearly distinguish different circuits. Thanks to its particularly minimal dimensions, our **WINSTA®** MINI Pluggable Connection System with Push-in **CAGE CLAMP®** spring pressure connection technology is very suitable in very restricted spaces, i.e., for connections when very little room is available.

#### **Push-in CAGE CLAMP®** spring pressure connection technology – pluggable installation instead of laborious screw connections!

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.



The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also reduce installation expenses without compromising safety and quality: The WINSTA® MINI pluggable installation connector with protection against mismatching reduces the need for servicing and prevents unnecessary downtime.

- 
- protection against mismatching eliminates errors
- consistent IP40 protection
- suitable for any application
- 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

#### 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

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

Total number of potentials	3
PE function	Preceding PE contact

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

## Connection 1

Pole number	3
-------------	---

## Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	16.4 mm / 0.646 inches
Height	29 mm / 1.142 inches
Depth	63.5 mm / 2.5 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 on one side
Protection type	IP20; IP40 when mated
Suitable	for flying leads

## Plug-in connection

Contact type (pluggable connector)	Socket/plug
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
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

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



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	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	0.33 MJ
Weight	13.7 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	27-44-06-03
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	4045454404468
Customs tariff number	85366990990



## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Subject to changes. Please also observe the further product documentation!

## Approvals / Certificates




### General approvals

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

### Declarations of conformity and manufacturer's declarations

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

### Approvals for marine applications








Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	EN 61535	08/20047 (E2)

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## Counterpart

	<b>Item no.890-123</b> Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-123">www.wago.com/890-123</a>
	<b>Item no.890-133</b> Plug; with strain relief housing; 3-pole; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-133">www.wago.com/890-133</a>
	<b>Item no.890-223</b> Socket; 3-pole; Cod. A; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-223">www.wago.com/890-223</a>
	<b>Item no.890-233</b> Plug; 3-pole; Cod. A; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/890-233">www.wago.com/890-233</a>
	<b>Item no.891-8993/005-102</b> pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/891-8993/005-102">www.wago.com/891-8993/005-102</a>
	<b>Item no.891-8993/105-102</b> pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/891-8993/105-102">www.wago.com/891-8993/105-102</a>
	<b>Item no.891-8993/205-102</b> pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/891-8993/205-102">www.wago.com/891-8993/205-102</a>

## Required accessories

### Mounting

#### Mounting accessories

	<b>Item no.: 890-623</b> Mounting plate; 3-pole; for distribution connectors; Plastic; black	<a href="http://www.wago.com/890-623">www.wago.com/890-623</a>
	<b>Item no.: 890-673</b> Mounting plate; 3-pole; for distribution connectors; Plastic; white	<a href="http://www.wago.com/890-673">www.wago.com/890-673</a>

## Downloads

### Documentation

#### Bid Text

890-686	2019 Feb 19	xml	Download
X81 - Datei		2.9 kB	

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890-686	2018 Nov 30	doc	Download
doc - Datei		23.6 kB	

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## CAD/CAE-Data

### CAD data

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2D/3D Models 890-686	URL	Download
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### CAE data

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EPLAN Data Portal 890-686	URL	Download
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WSCAD Universe 890-686	URL	Download
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ZUKEN Portal 890-686	URL	Download
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## Environmental Product Compliance

### Compliance Search

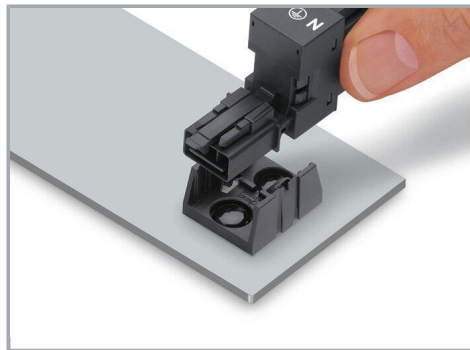
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Environmental Product Compliance 890-686	URL	Download
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white		

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## Installation Notes

### Installation



Secure the mounting plate via pins.

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

Data sheet | Item number: 890-686

[www.wago.com/890-686](http://www.wago.com/890-686)



## Product family

**WINSTA® MINI**

[Show all products from the family](#)

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