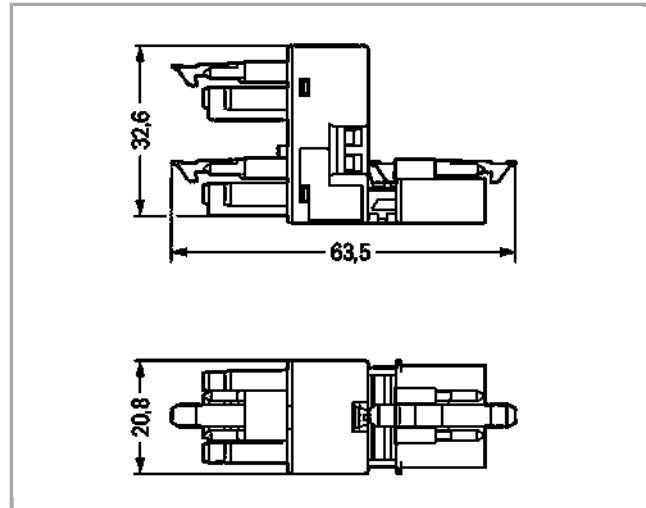


## Data sheet | Item number: 890-945

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black



[www.wago.com/890-945](http://www.wago.com/890-945)



### Item description

- Protected against mismatching and maintenance-free
- Compact design with 4.4 mm pole spacing

#### Note:

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).

#### Note on mismatching protection:

All WINSTA<sup>®</sup> components are 100% protected against mismatching when:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180
- c.) plugging while laterally staggered
- d.) plugging one pole

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.

**Safety information 1:**

Application note for the U.S. market (USR): 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.

**Data****Electrical data**

Note on Contact Resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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**Ratings per IEC/EN 60664-1**

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	400 V
Rated impulse voltage (III / 3)	6 kV
Rated current	16 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

**Approvals per UL 1977**

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	12 A

**Connection data**

No. of poles	4
Total number of potentials	4
Ground function	with preceding ground contact

**Geometrical Data**

Pin spacing	4,4 mm / 0.173 inch
Width	20,8 mm / 0.819 inch
Height	32,65 mm / 1.285 inch
Depth	63,5 mm / 2.5 inch

**Mechanical data**

Coding	A
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	when unlocked: approx. 20 ... 70 N (depending on pole number)

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



Number of mating cycles

200, without resistive load

100, with resistive load  $I_N = 16$  A, tested (1.5mm<sup>2</sup>/AWG 16)

Type of distribution connector	h-distribution connector (unidirectional)
Marking	N 2/L 1/L'
Protection class	IP20
Note on protection class	IP40 when mated
Potential marking	N 2/L 1/L'
Application	General mains applications
Suitable	for flying leads

### Plug connection

Contact type (pluggable connector)	Socket/plug
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	yes

### Material Data

Color	black
Insulating material	Polyamide 66 (PA 66)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.314 MJ
Weight	19.3 g

### Environmental Requirements

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

### Commercial data

Product Group	20 (WINSTA)
Packaging type	BOX
Country of origin	DE
GTIN	4050821255161
Customs Tariff No.	85366990990

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

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## Approvals / Certificates








### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71-102984

### Ship Approvals

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



## Counterpart

	<b>Item no.890-104</b> Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-104">www.wago.com/890-104</a>
	<b>Item no.890-114</b> Plug; with strain relief housing; 4-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-114">www.wago.com/890-114</a>
	<b>Item no.890-204</b> Socket; 4-pole; Cod. A; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-204">www.wago.com/890-204</a>
	<b>Item no.890-214</b> Plug; 4-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-214">www.wago.com/890-214</a>
	<b>Item no.891-8994/006-101</b> pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/891-8994/006-101">www.wago.com/891-8994/006-101</a>
	<b>Item no.891-8994/106-101</b> pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/891-8994/106-101">www.wago.com/891-8994/106-101</a>
	<b>Item no.891-8994/206-101</b> pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/891-8994/206-101">www.wago.com/891-8994/206-101</a>

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

## Compatible products

### assembling

	<b>Item no.: 890-624</b> Mounting plate; 4-pole; for distribution connectors; Plastic; black	<a href="http://www.wago.com/890-624">www.wago.com/890-624</a>
	<b>Item no.: 890-674</b> Mounting plate; 4-pole; for distribution connectors; Plastic; white	<a href="http://www.wago.com/890-674">www.wago.com/890-674</a>

## Downloads

### Documentation

#### Bid Text

890-945 GAEB X81 - Datei	Feb 19, 2019	xml 2.9 kB	Download
890-945 doc - Datei	Dec 1, 2014	doc 23.0 kB	Download

### CAD/CAE-Data

#### CAD data

2D/3D Models 890-945	URL	Download
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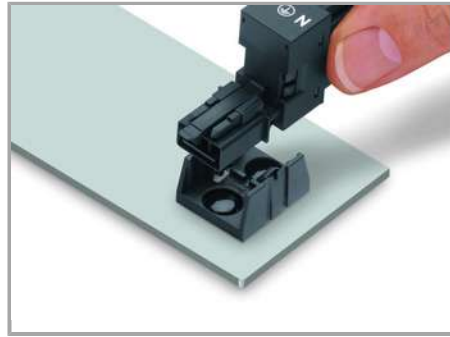
#### CAE data

WSCAD Universe 890-945	URL	Download
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## Installation Notes

### Installation

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



Secure the mounting plate via pins.

## Product family

*WINSTA*® MINI

[Show all products from the family](#)

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