

Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit.
- Low profile with 4.4 mm pole spacing
- Components can be clearly printed on and color-coded to meet custom requirements.
- When assembled, the installation connectors comply with IP40 and are suitable for easily accessible areas.

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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IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	250 V
Rated surge voltage (III/3)	4 kV

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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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Rated current	16 A
Note on rated current	13 A for 3-pole load
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

## Ratings per UL

Hinweis für den amerikanischen Markt	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.
Rated voltage UL 1977	600 V
Rated current UL 1977	14 A

## Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	1.5 mm <sup>2</sup>
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 inch
Note (strip length)	see also packaging or instructions
Pole No.	3
Total number of connection points	3
Total number of potentials	3
Conductor entry direction to mating direction	0°

## Physical data

Pin spacing	4.4 mm / 0.173 inch
Width	15 mm / 0.591 inch
Height	11.7 mm / 0.461 inch
Depth	34.1 mm / 1.343 inch

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## Mechanical data

Application	Measurement and regulation technology
Coding	B
Marking	1 2 3
Potential marking	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
Protection class	IP20; IP40 with strain relief housing
Protection type	IP20
Note on protection type	IP40 with strain relief housing

## 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	Can be retrofitted
Locking of plug-in connection	locking lever
Hinweis zur Verriegelung	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

Color	pink
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.014 MJ
Weight	3.6 g

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## 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)
Packaging type	BOX
Country of origin	PL
GTIN	4055143499873
Customs tariff number	8536694040

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-64351
	<b>CB</b> DEKRA Certification B.V.	EN 61984	71-112993
	<b>CCA</b> DEKRA Certification B.V.	EN 60320	2148952.04

### Ship Approvals


Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	<b>LR</b> Lloyds Register	EN 61535	08/20047 (E2)

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## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

## Counterpart

**Item no.890-1663**

h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; pink

[www.wago.com/890-1663](http://www.wago.com/890-1663)**Item no.890-1763**

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

[www.wago.com/890-1763](http://www.wago.com/890-1763)**Item no.890-293**

Plug; 3-pole; 1,50 mm²; pink

[www.wago.com/890-293](http://www.wago.com/890-293)**Item no.890-793**

WINSTA® through-panel plug (male); MINI; snap-in; 1/2/3 marking; 3-pole; pink

[www.wago.com/890-793](http://www.wago.com/890-793)**Item no.890-893**

Plug for PCBs; straight; 3-pole; Cod. B; pink

[www.wago.com/890-893](http://www.wago.com/890-893)**Item no.890-893/011-000**

Plug for PCBs; angled; 3-pole; Cod. B; pink

[www.wago.com/890-893/011-000](http://www.wago.com/890-893/011-000)**Item no.891-8993/005-107**

pre-assembled interconnecting cable; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm²; pink

[www.wago.com/891-8993/005-107](http://www.wago.com/891-8993/005-107)**Item no.891-8993/205-107**

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm²; pink

[www.wago.com/891-8993/205-107](http://www.wago.com/891-8993/205-107)

## Required accessories

## Locking levers

**Item no.: 890-101**

Locking lever; for manual operation; black







[www.wago.com/890-101](http://www.wago.com/890-101)**Item no.: 890-111**

Locking lever; for flying leads; for tool operation; black

[www.wago.com/890-111](http://www.wago.com/890-111)**Item no.: 890-121**


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	Locking lever; for manual operation; white	<a href="http://www.wago.com/890-121">www.wago.com/890-121</a>
	<b>Item no.: 890-131</b> Locking lever; for flying leads; for tool operation; white	<a href="http://www.wago.com/890-131">www.wago.com/890-131</a>
<b>Tools</b>		
	<b>Item no.: 890-383</b> Operating tool; 3-way; green	<a href="http://www.wago.com/890-383">www.wago.com/890-383</a>
<b>Mounting</b>		
	<b>Item no.: 890-310</b> Mounting carrier; 2- to 5-pole; for flying leads; black	<a href="http://www.wago.com/890-310">www.wago.com/890-310</a>
	<b>Item no.: 890-311</b> Mounting carrier; 2- to 5-pole; for flying leads; white	<a href="http://www.wago.com/890-311">www.wago.com/890-311</a>
<b>Strain relief</b>		
	<b>Item no.: 890-503</b> Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black	<a href="http://www.wago.com/890-503">www.wago.com/890-503</a>
	<b>Item no.: 890-513</b> Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white	<a href="http://www.wago.com/890-513">www.wago.com/890-513</a>

## Optional accessories

### Cover

	<b>Item no.: 897-2001</b> Protective cap; Type1; for sockets and plugs; PVC; red	<a href="http://www.wago.com/897-2001">www.wago.com/897-2001</a>
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### Tools

	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
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## Downloads

### Documentation

#### Bid Text

890-283 X81 - Datei	Feb 19, 2019	xml 3.0 kB	Download
890-283 doc - Datei	Jun 8, 2015	doc 24.1 kB	Download

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

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CAD files

CAD data

2D/3D Models 890-283	URL	Download
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CAE data

WSCAD Universe 890-283	URL	Download
ZUKEN Portal 890-283	URL	Download

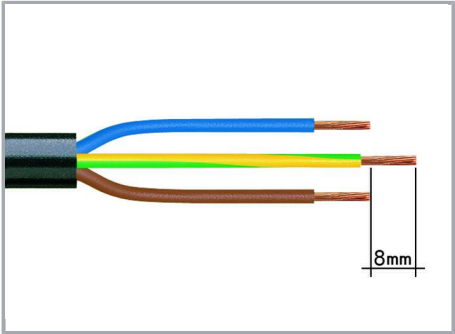
Environmental Product Compliance

Compliance Search

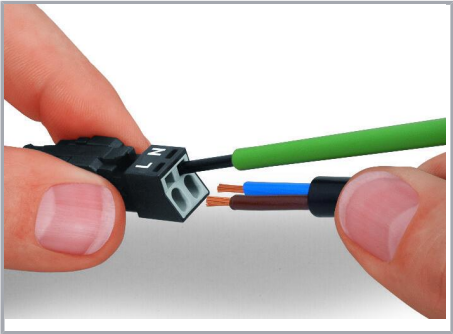
Environmental Product Compliance 890-283 Socket; 3-pole; Cod. B; 1,50 mm²; pink	URL	Download
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Installation Notes

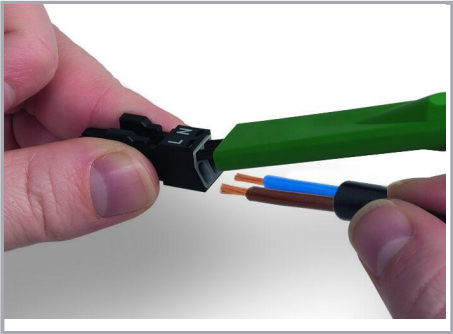
Conductor termination



- 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.

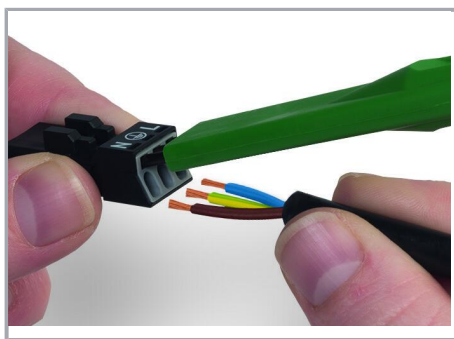


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.

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To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

#### Installation



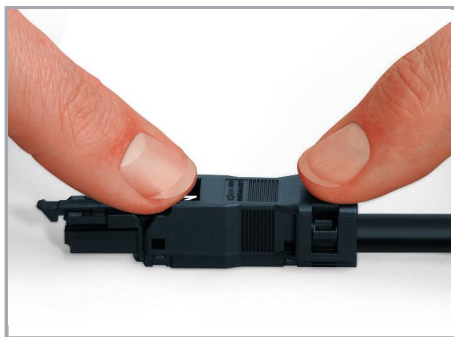
Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.



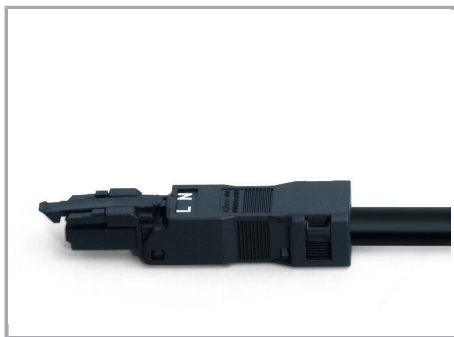
Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.

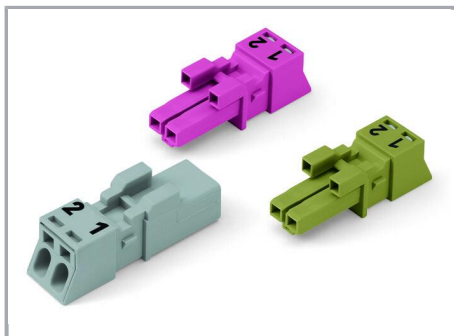
Subject to changes. Please also observe the further product documentation!





The printed marking of the connector is clearly visible in the openings of the strain relief housing.

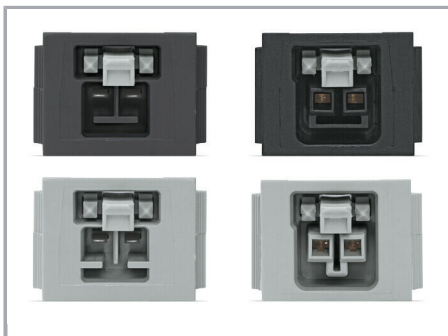
#### Mismating protection



B-coded connectors with different colors can be plugged together.

#### Important note:

Different colors and/or pole markings are used for circuit identification. Only connectors of the same color and same pole marking must be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



#### Product family

<i>WINSTA</i>® MINI

[Show all products from the family](#)

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