

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
- Compact design with 4.4 mm pole spacing
- When assembled, the installation connectors complies with IP40 and are suitable for easily accessible areas

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® 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

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.

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



Data

Electrical data

Note on Contact Resistance

approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated current	16 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Approvals per UL 1977

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 mm²
Solid conductor	0,25 ... 1,5 mm² / 22 ... 16 AWG
Solid conductor; push-in termination	0,75 ... 1,5 mm² / 20 ... 16 AWG
Stranded conductor	0,25 ... 1 mm² / 22 ... 18 AWG
Fine-stranded conductor	0,25 ... 1,5 mm² / 22 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0,25 ... 0,75 mm² / 22 ... 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0,25 ... 0,75 mm² / 22 ... 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0,75 mm² / 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
Ground function	with preceding ground contact
Conductor entry direction to mating direction	0°

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

WAGO Kontakttechnik GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



Geometrical 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

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	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 100, with resistive load $I_N = 16$ A, tested (1.5 mm ² /AWG 16)
Marking	L N
Protection type	IP20
Note on protection type	IP40 when mated with strain relief housing
Potential marking	L N
Application	General mains applications

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	retrofittable

Material Data

Color	black
Insulation material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.134 MJ
Weight	3.6 g

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

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	4055143548533
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71-11299

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
	LR Lloyds Register	EN 61535	08/20047 (E2)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus	UL 1977	E45171

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

Underwriters Laboratories Inc.



Counterpart



Item no.890-103
Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-103



Item no.890-203
Socket; 3-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-203



Item no.890-615
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

www.wago.com/890-615



Item no.890-606
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

www.wago.com/890-606



Item no.890-634
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

www.wago.com/890-634



Item no.890-636
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black

www.wago.com/890-636



Item no.890-703
Snap-in socket; 3-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-703



Item no.890-803
Socket for PCBs; straight; 3-pole; Cod. A

www.wago.com/890-803



Item no.890-803/011-000
Socket for PCBs; angled; 3-pole; Cod. A; black

www.wago.com/890-803/011-000




Item no.891-8993/005-101

www.wago.com/891-8993


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




pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm²; black		/005-101
	Item no.891-8993/105-101	www.wago.com/891-8993
pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm²; black		/105-101

Compatible products

shield connection

	Item no.: 890-523	www.wago.com/890-523
Shield connecting plate; 3-pole; for sockets and plugs		

tools

	Item no.: 210-719	www.wago.com/210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft		

Downloads

Documentation

Bid Text

890-213	Jun 8, 2015	doc	Download
doc - Datei		23.6 kB	
890-213	Feb 19, 2019	xml	Download
GAEB X81 - Datei		3.0 kB	

CAD/CAE-Data

CAD data

2D/3D Models 890-213	URL	Download
----------------------	-----	----------

CAE data

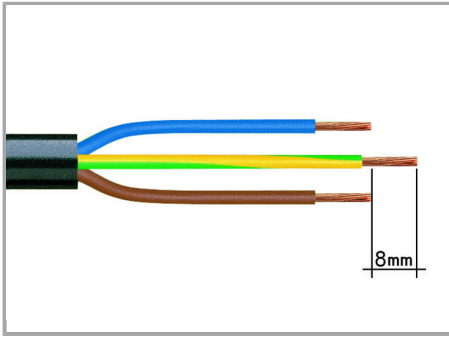
EPLAN Data Portal 890-213	URL	Download
WSCAD Universe 890-213	URL	Download

Installation Notes

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

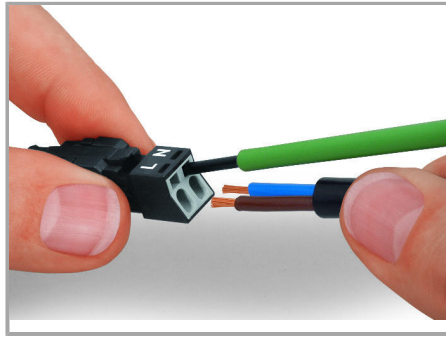
Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



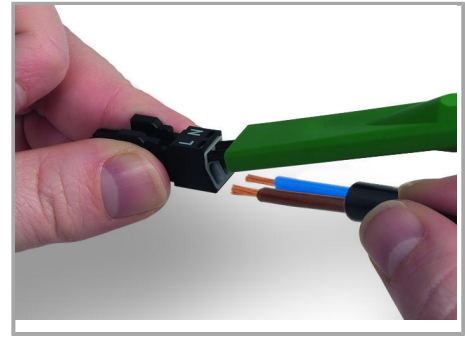
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

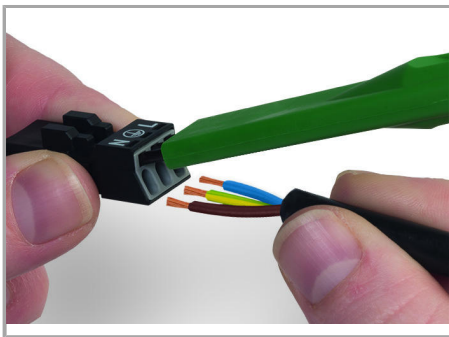


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



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.

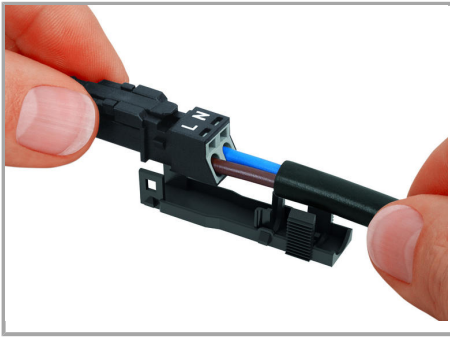


To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

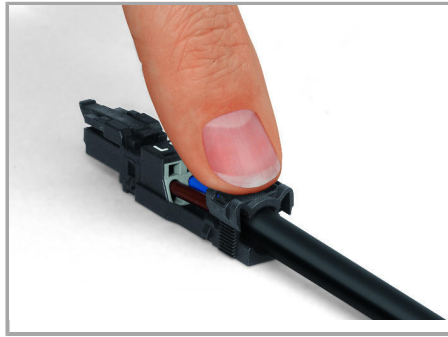
Terminate solid conductors by simply pushing them in.

Installation

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



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



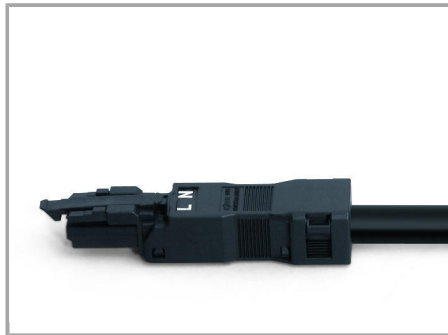
Push down strain relief clamp by hand.



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

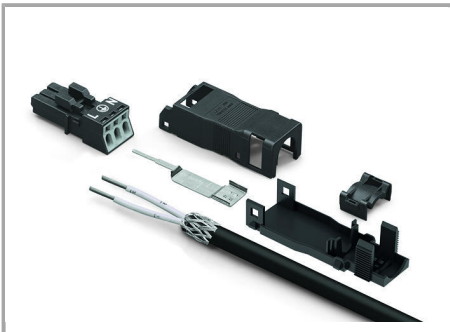


Latch the top of the strain relief housing.



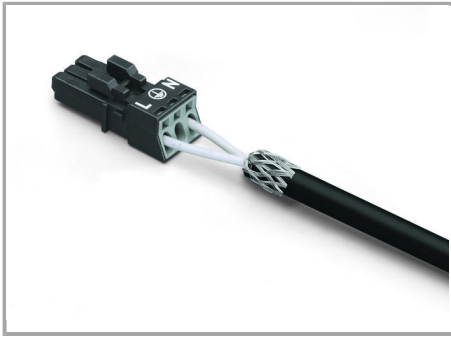
The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Shield Connection



Connector with shield termination

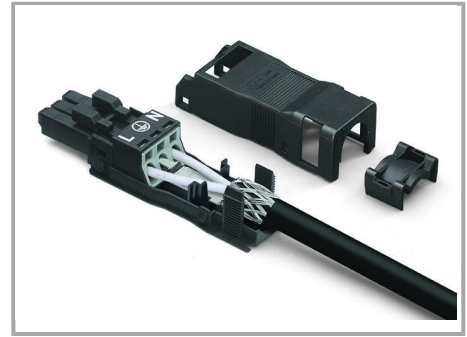
Subject to changes. Please also observe the further product documentation!



Apply the shield to the rubber cable.



Push the shield connecting plate into the connector until fully inserted.



First insert wired connector into strain relief housing, then snap the clamp and cover.

Strip length, outer insulation = 30 mm

Shield length = 8 mm

Product family

WINSTA® MINI

[Show all products from the family](#)

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