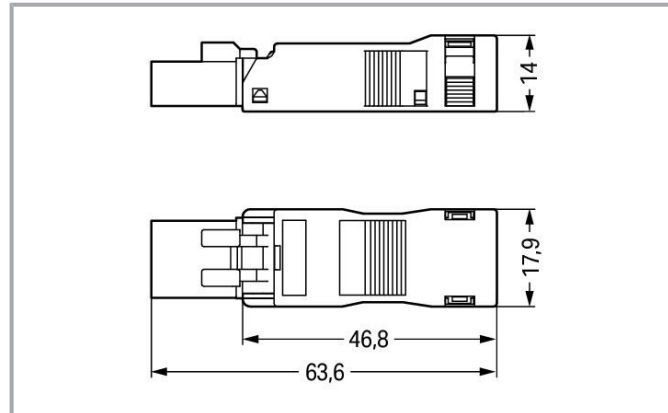
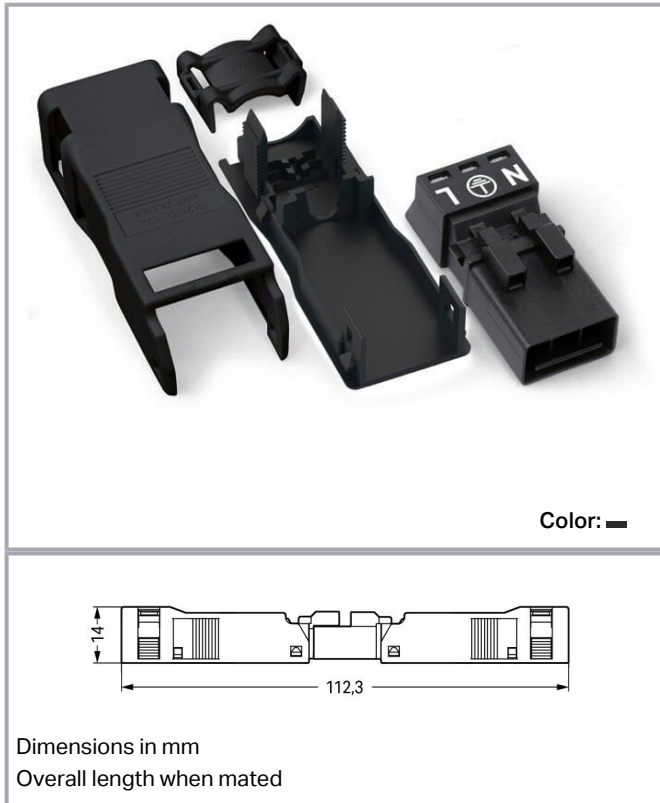


Data sheet | Item number: 890-113

Plug; with strain relief housing; 3-pole; 1,50 mm²; black

www.wago.com/890-113



Item description

Male connector/plug *WINSTA*® MINI 3-pole

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MINI male connector/plug with protection against mismatching. WAGO pluggable installation connectors are useful when specifications repeat or are distributed on a specific pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected in accordance with protection type IP40. Users' fingers and tools will never come into contact with live elements. General mains applications for almost any domain of use can be realised with *WINSTA*® MINI pluggable installation connectors with A coding. Due to its particularly compact dimensions, our *WINSTA*® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is specifically suitable in very restricted spaces, i.e., for installations when very little room is available. The strip length is 40 mm.

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

WAGO 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.



WINSTA® MINI solutions for your electrical installation – protected against mismatching and maintenance-free

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

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm²
- with A coding for use in many general mains applications
- ready for immediate use
- 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 information

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

Connection data

Connection points	3
-------------------	---

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

WAGO 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.



Total number of potentials	3
PE function	Preceding PE contact

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	1.5 mm² / 16 AWG
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 inches
Pole number	3
Conductor entry direction to mating direction	0 °
Strip length (outer insulation)	40 mm

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	17.9 mm / 0.705 inches
Height	14 mm / 0.551 inches
Depth	63.6 mm / 2.504 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No
Marking	N ≡ L
Potential marking	N ≡ L
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 type	IP40

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

WAGO 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.



Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All WINSTA [®] 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
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).
Strain relief	strain relief housing

Material data

Note (material data)	Information on material specifications can be found here
Color	black
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.23 MJ
Weight	8.5 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

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

WAGO 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.



Commercial data



Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454232900
Customs tariff number	85366990990

Environmental Product Compliance


RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71-123231
	CCA DEKRA Certification B.V.	IEC 61535	NL-85020
	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	-	-

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

WAGO 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.



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)

Counterpart

	Item no.890-103 Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm ² ; black	www.wago.com/890-103
	Item no.890-203 Socket; 3-pole; Cod. A; 1,50 mm ² ; 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 mm ² ; black	www.wago.com/890-703
	Item no.890-803 Socket for PCBs; straight; 3-pole; Cod. A; black	www.wago.com/890-803

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

WAGO 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.

**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**

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm²; black

www.wago.com/891-8993/005-101**Item no.891-8993/105-101**

pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm²; black

www.wago.com/891-8993/105-101

Required accessories

Locking levers

Locking system

**Item no.: 890-111**

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

www.wago.com/890-111**Item no.: 890-101**

Locking lever; for manual operation; black

www.wago.com/890-101**Item no.: 890-121**

Locking lever; for manual operation; white

www.wago.com/890-121**Item no.: 890-131**

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

www.wago.com/890-131

Optional accessories

Mounting

Mounting accessories

**Item no.: 890-310**

Mounting carrier; 2- to 5-pole; for flying leads; black

www.wago.com/890-310**Item no.: 890-311**

Mounting carrier; 2- to 5-pole; for flying leads; white

www.wago.com/890-311

Shield termination

Shield termination

**Item no.: 890-523**

Shield connecting plate; 3-pole; for sockets and plugs; silver-colored

www.wago.com/890-523

Cover

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

WAGO 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.

Cover



Item no.: 897-2001

Protective cap; Type1; for sockets and plugs; PVC; red

www.wago.com/897-2001

Tool

Operating tool



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Item no.: 890-383

Operating tool; 3-way; green

www.wago.com/890-383

Downloads

Documentation

Bid Text

890-113 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
890-113 doc - Datei	2015 Jun 8	doc 23.6 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 890-113	URL	Download
----------------------	-----	----------

CAE data

EPLAN Data Portal 890-113	URL	Download
ZUKEN Portal 890-113	URL	Download
WSCAD Universe 890-113	URL	Download

Asset Administration Shell

Asset Administration Shell 890-113	URL	Download
------------------------------------	-----	----------

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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-113

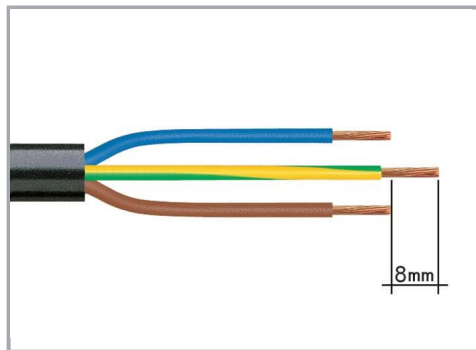
URL

Download

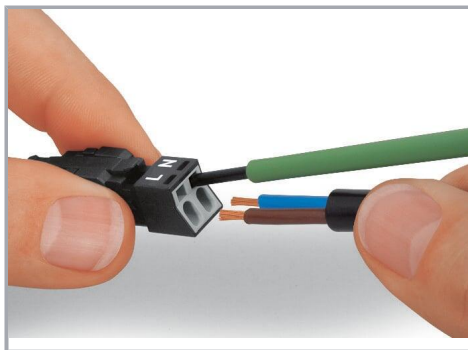
Plug; with strain relief housing; 3-pole; 1,50 mm²; black

Installation Notes

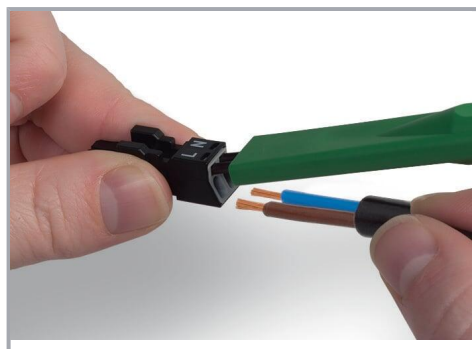
Conductor termination



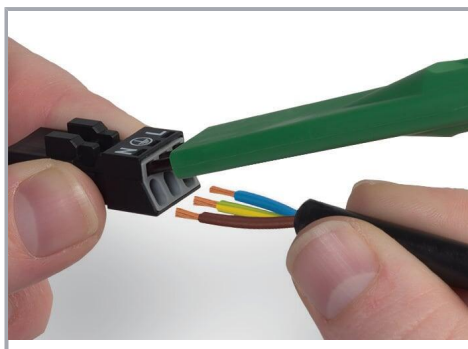
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



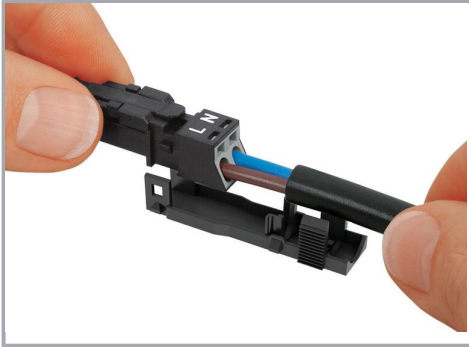
To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.
Terminate solid conductors by simply pushing them in.



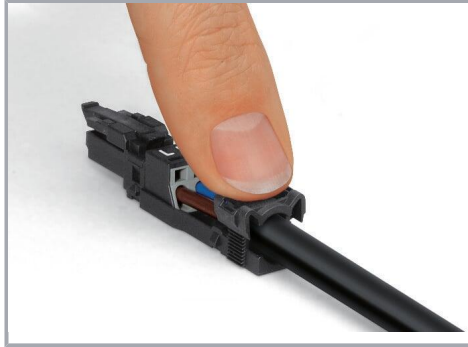
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.
Terminate solid conductors by simply pushing them in.

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

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.



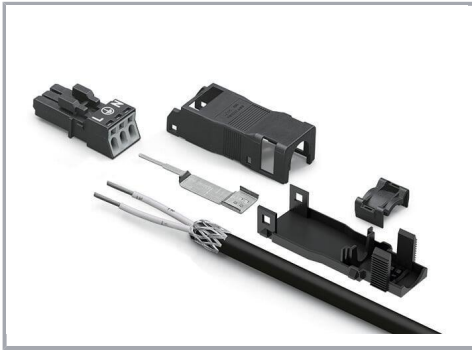
Latch the top of the strain relief housing.



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

Shield termination

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



Connector with shield termination

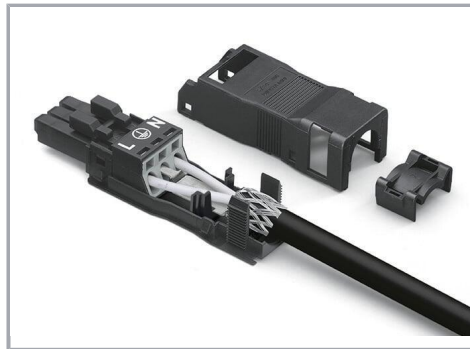


Apply the shield to the sheathed cable.

Strip length, outer insulation = 30 mm
Shield length = 8 mm



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



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

Product family

WINSTA® MINI

[Show all products from the family](#)

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