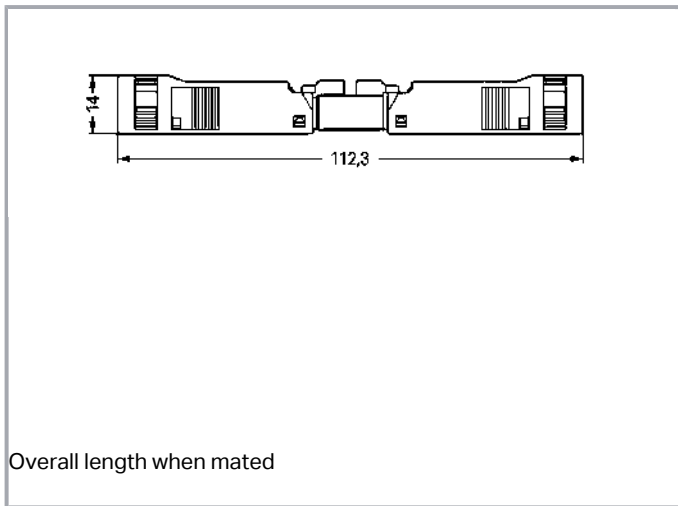
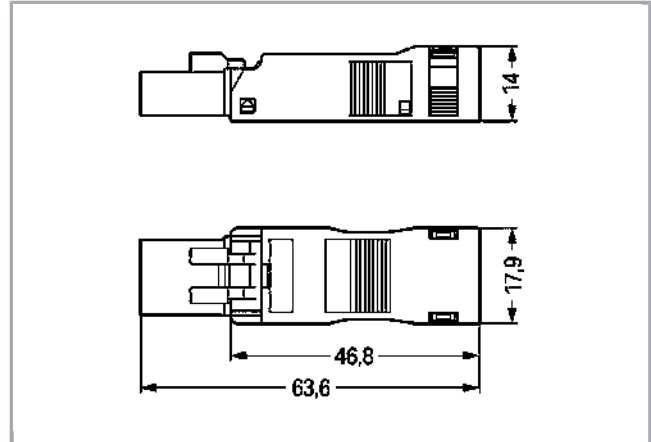


Data sheet | Item number: 890-113

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

www.wago.com/890-113



Overall length when mated

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

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

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- 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:

- plugging different numbers of poles
- plugging while rotated 180
- plugging while laterally staggered
- 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.

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
Rated 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

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	14 A

Connection data

Connection technology	Push-in CAGE CLAMP [®]
Actuation type	Operating tool Push-in
Nominal cross section	1,5 mm ²
Solid conductor	0,25 ... 1,5 mm ² / 22 ... 16 AWG
Solid conductor, push-in termination	0,75 ... 1,5 mm ² / 20 ... 16 AWG

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Stranded conductor	0,25 ... 1 mm ² / 22 ... 18 AWG
Fine-stranded conductor	0,25 ... 1,5 mm ² / 22 ... 16 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 ... 0,75 mm ² / 22 ... 20 AWG
Fine-stranded conductor with ferrule without plastic collar	0,25 ... 0,75 mm ² / 22 ... 20 AWG
Fine-stranded conductor with ferrule, push-in termination, from	0,75 mm ² / 20 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	3
Total number of connection points	3
Total number of potentials	3
Ground function	with preceding ground contact
Connectable sheathed cable diameter	4,5 ... 10 mm
Conductor entry direction to mating direction	0°
Strip length	40 mm

Geometrical Data

Pin spacing	4,4 mm / 0.173 inch
Width	17,9 mm / 0.705 inch
Height	14 mm / 0.551 inch
Depth	63,6 mm / 2.504 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 class	IP40
Potential marking	L N
Application	General mains applications

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



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
Strain relief	strain relief housing

Material Data

Color	black
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.238 MJ
Weight	8.5 g

Environmental Requirements


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

Commercial data

Product Group	20 (WINSTA)
Packaging type	BOX
Country of origin	DE
GTIN	4045454232900
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals


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

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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 Underwriters Laboratories Inc.	UL 1977	E45171

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

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



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

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

Compatible products

shield connection



Item no.: 890-523

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

www.wago.com/890-523

assembling



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

Locking lever



Item no.: 890-101

Locking lever; for manual operation; black

www.wago.com/890-101

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**Item no.: 890-111**

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

www.wago.com/890-111**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**tools****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 doc - Datei	Jun 8, 2015	doc 23.6 kB	Download
890-113 GAEB X81 - Datei	Feb 19, 2019	xml 3.1 kB	Download

CAD/CAE-Data**CAD data**

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

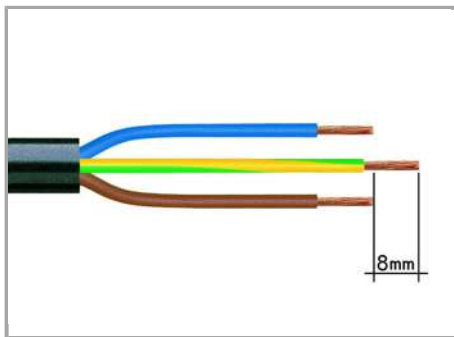
EPLAN Data Portal 890-113	URL	Download
WSCAD Universe 890-113	URL	Download

Installation Notes

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

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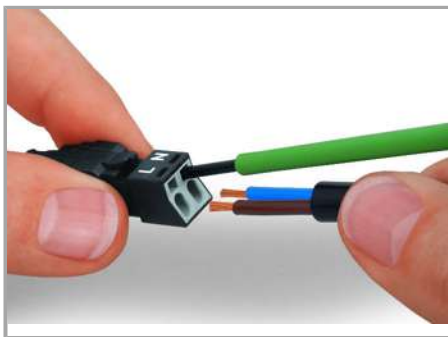
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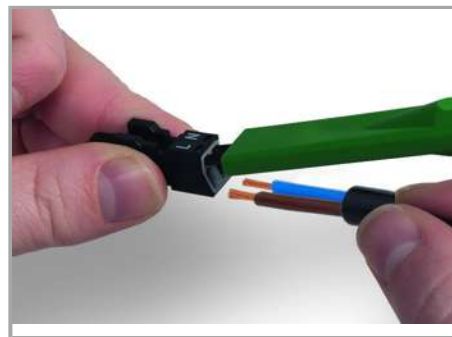
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

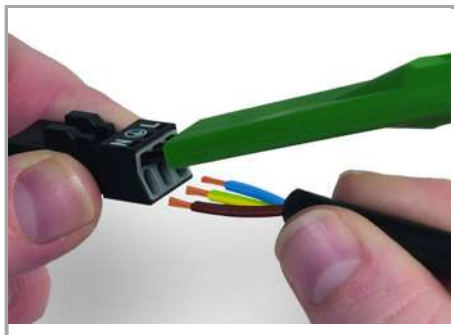


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



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

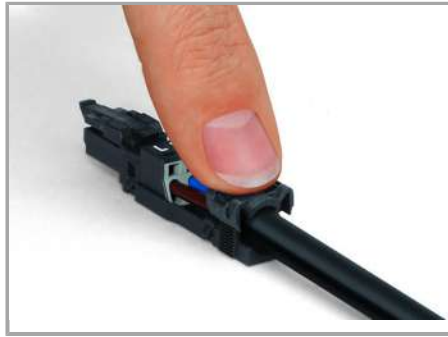
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Latch wired connector onto the base of the strain relief housing.



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.



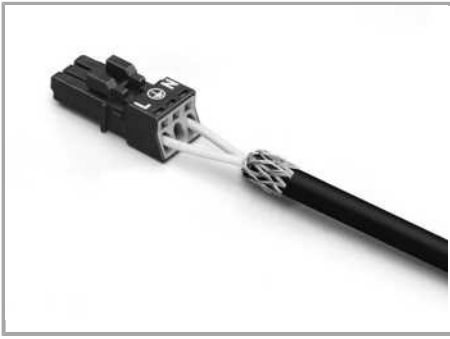
The printed marking of the connector is clearly visible in the openings of the strain relief housing.

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!