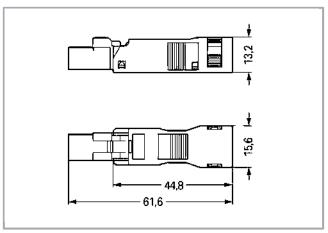
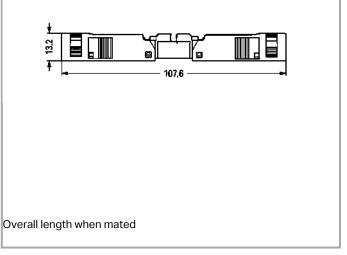
Plug; with strain relief housing; 2-pole; 1,50 mm²; black

www.wago.com/890-112









Item description

- Protected against mismating 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 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

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 m Ω of contact resistance approx. 0.25 m Ω 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 mm²
Solid conductor	0,25 1,5 mm² / 22 16 AWG
Solid conductor, push-in termination	0,75 1,5 mm² / 20 16 AWG

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Stranded conductor	0,25 1 mm² / 22 18 AWG
Fine-stranded conductor	0,25 1,5 mm² / 22 16 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 0,75 mm² / 22 20 AWG
Fine-stranded conductor with ferrule without plastic collar	0,25 0,75 mm² / 22 20 AWG
Fine-stranded conductor with ferrule, push-in termination, from	0,75 mm² / 20 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	2
Total number of connection points	2
Total number of potentials	2
Connectable sheathed cable diameter	3,8 8,2 mm
Conductor entry direction to mating direction	0°
Strip length	32 mm

Geometrical Data

Pin spacing	4,4 mm / 0.173 inch
Width	15,6 mm / 0.614 inch
Height	13,2 mm / 0.52 inch
Depth	61,6 mm / 2.425 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	LN
Protection class	IP40
Potential marking	LN
Application	General mains applications

Plug connection

Contact type (pluggable connector)

Male connector/plug

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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	0.144 MJ
Weight	5.5 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	4045454232894
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

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

Ship Approvals

			Certificate
Logo	Approval	Additional Approval Text	name

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LR

Lloyds Register

EN 61535

08/20047 (E2)



Logo Approval Additional Approval Text name

cURus UL 1977 E45171



Underwriters Laboratories Inc.

Counterpart



Item no.890-102

Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-102



Item no.890-1606

T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

www.wago.com/890-1606



Item no.890-1615

T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

www.wago.com/890-1615



Item no.890-1634

h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

www.wago.com/890-1634



Item no.890-1636

h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for www.wago.com/890-1636 flying leads; black

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

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Item no.890-202/342-000

Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-202/342-000



Item no.890-202

Socket; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-202



Item no.890-702

Snap-in socket; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-702



Item no.890-802

Socket for PCBs; straight; 2-pole; Cod. A

www.wago.com/890-802



Item no.890-802/011-000

Socket for PCBs; angled; 2-pole; Cod. A; black

www.wago.com/890-802/011-

000

Item no.891-8992/005-101

pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m; 1,00 mm²; black

www.wago.com/891-8992 /005-101

Item no.891-8992/105-101

pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m; 1,00 mm²; black

www.wago.com/891-8992

/105-101

Compatible products

Locking lever

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Item no.: 890-101

Locking lever; for manual operation; black

www.wago.com/890-101



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





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.: 890-382

Operating tool; 2-way; green

www.wago.com/890-382

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assembling

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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

Downloads

Documentation

Bid Text

890-112 GAEB X81 - Datei	Feb 19, 2019	xml 3.1 kB	Download
890-112 doc - Datei	Jun 8, 2015	doc 23.6 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 890-112	URL	Download
CAE data		
EPLAN Data Portal 890-112	URL	Download
WSCAD Universe 890-112	URL	Download

Installation Notes

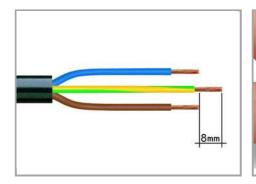
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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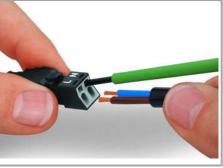




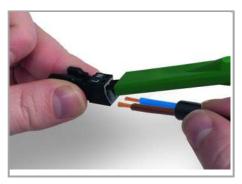
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

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.

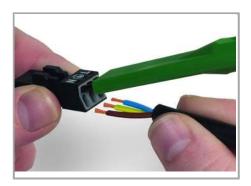
Terminate solid conductors by simply pushing them in.

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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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 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.

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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.

Product family

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Show all products from the family

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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