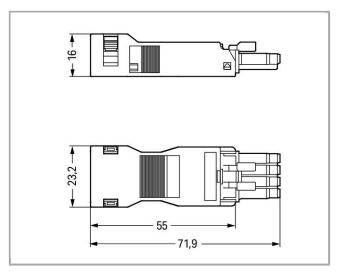
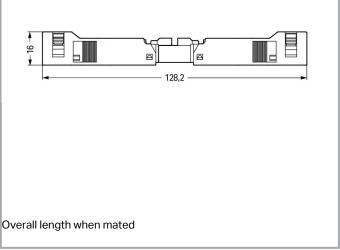
Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-104









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

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

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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)	400 V
Rated impulse voltage (III / 3)	6kV
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)	12 A

Connection data

16 AWG
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	4
Total number of connection points	4
Total number of potentials	4
Connectable sheathed cable diameter	6,5 10,5 mm
Conductor entry direction to mating direction	0°
Strip length	45 mm

Geometrical Data

Pin spacing	4,4 mm / 0.173 inch
Width	23,2 mm / 0.913 inch
Height	16 mm / 0.63 inch
Depth	71,9 mm / 2.831 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	N 2/L 1/L'
Protection class	IP40
Potential marking	N 2/L 1/L'
Application	General mains applications

Plug connection

Contact type (pluggable connector) Female connector/socket

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

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Connector connection type	for conductor
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	no
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	0.268 MJ
Weight	10.6 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	4045454232863
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 102984
	CCA DEKRA Certification B.V.	IEC 61535	NL-49482

Ship Approvals

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

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Logo	Approval Additional Approval Text		Certificate name
ABS.	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
DNV-GL MARITIME	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
THE APPLICATION STREET	LR Lloyds Register	EN 61535	08/20047 (E2)
UL-Approvals			
Logo	Approval	Additional Approval Text	Certificate name
c 91 0s	cURus Underwriters Laboratories Inc.	UL 1977	E45171

Counterpart

REG	Item no.890-114 Plug; with strain relief housing; 4-pole; 1,50 mm²; black	www.wago.com/890-114
	Item no.890-214 Plug; 4-pole; 1,50 mm²; black	www.wago.com/890-214
	Item no.890-626 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/890-626
	Item no.890-627 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/890-627
**	Item no.890-714 Snap-in plug; 4-pole; Cod. A; 1,50 mm²; black	www.wago.com/890-714

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Item no.890-814 Plug for PCBs; straight; 4-pole; Cod. A

www.wago.com/890-814

11.5	
	VALUE OF THE PARTY

Item no.890-814/011-000

Plug for PCBs; angled; 4-pole; Cod. A

www.wago.com/890-814/011-

000



Item no.890-944

black

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers;

www.wago.com/890-944



Item no.890-945

1,50 mm²; black

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for www.wago.com/890-945 flying leads; black

Item no.891-8994/206-101

pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;

www.wago.com/891-8994

/206-101

Item no.891-8994/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; black

www.wago.com/891-8994

/006-101

Compatible products

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.: 890-384

Operating tool; 4-way; green

www.wago.com/890-384

Locking lever

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

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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

shield connection



Item no.: 890-524

Shield connecting plate; 4-pole; for sockets

www.wago.com/890-524

Downloads CAD/CAE-Data

CAD data

2D/3D Models 890-104

URL

Download

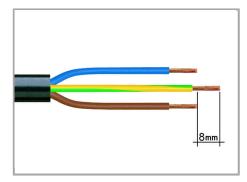
CAE data

WSCAD Universe 890-104

URL

Download

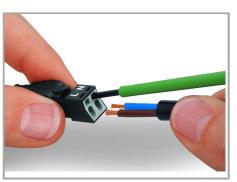
Installation Notes



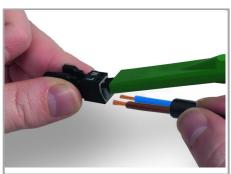
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

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.

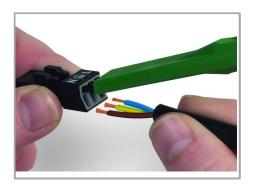
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To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

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.

Shield Connection



Connector with shield termination



Apply the shield to the rubber cable.



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

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Strip length, outer insulation = 30 mm

Shield length = 8 mm

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

Product family

<i>WINSTA</i>® MINI
Show all products from the family

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