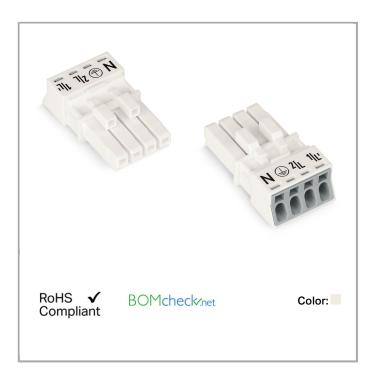
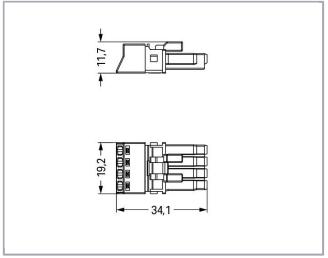
Socket; 4-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-224







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
- 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

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

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www.wago.com/890-224



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)	6 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)	12 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 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

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

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Geometrical Data

Pin spacing	4,4 mm / 0.173 inch
Width	19,2 mm / 0.756 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 $I_N = 16 \text{ A}$, tested (1.5 mm ² /AWG 16)

Marking	N 2/L 1/L'
Protection class	IP20
Note on protection class	IP40 with strain relief housing
Potential marking	N 2/L 1/L'
Application	General mains applications

Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector connection type	for conductor
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	no

Material Data

Color	white
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.095 MJ

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

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Weight		5 g	
Environme	ntal Requirements		
Processing	temperature	-5 +40 °C	
Continuous	operating temperature	-35 +85 °C	
Note on Co	ntinuous Service Temperature	Insulating parts for temperatures ≤ 105 °C	
Commercia	al data		
Product Gro	oup	20 (WINSTA)	
Packaging t	rype	BOX	
Country of o		DE	
GTIN		4045454233198	
Customs Ta	ariff No.	85366990990	
Approvals /	/ Certificates		
Country spec	cific Approvals		
Logo	Approval	Additional Approval Text	Certificate name
	CCA	EN 61535	71-
KEMA	DEKRA Certification B.V.		102984
	CCA DEKRA Certification B.V.	IEC 61535	NL-49482
Ship Approva	als		
			Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	Steel Vessel Rules	19-
TA TANGO THE	American Bureau of Shipping		HG1869855- PDA
AND DANSES	DNV GL	-	TAE00001Z6
DNV-GL MARITIME	Det Norske Veritas, Germanischer Lloyd		
	LR	EN 61535	08/20047
THE AMERICAL	Lloyds Register		(E2)
Subject to cha	anges. Please also observe the further product docu	mentation!	
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UL-Approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	cURus	UL 1977	E45171
c FL us	Underwriters Laboratories Inc.		

Counterpart

W. H. M.	
	Z.B.W.H
	£335

Item no.890-234 Plug; 4-pole; 1,50 mm²; white

www.wago.com/890-234



Item no.890-134

Plug; with strain relief housing; 4-pole; 1,50 mm²; white

www.wago.com/890-134



Item no.890-676

T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white

www.wago.com/890-676



Item no.890-677

T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

www.wago.com/890-677



Item no.890-734

Snap-in plug; 4-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-734



Item no.890-834

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

www.wago.com/890-834



Item no.890-834/011-000

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

www.wago.com/890-834/011-

000



Item no.890-994

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

www.wago.com/890-994



Item no.890-995

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for www.wago.com/890-995 flying leads; white

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

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Item no.891-8994/006-102
pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;
1,50 mm²; white

Item no.891-8994/206-102
pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;
1,50 mm²; white

www.wago.com/891-8994
/206-102

Compatible products

Strain relief plate

	Item no.: 890-504 Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; black	www.wago.com/890-504
	Item no.: 890-514	www.wago.com/890-514
A.	Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; white	vv vv vv.vv ago.com/030-314
shield con	nection	
	Item no.: 890-524	www.waga.com/000_E3/
	Shield connecting plate; 4-pole; for sockets	www.wago.com/890-524
ocking le	ver	
	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	www.wago.com/890-121
	Locking lever; for manual operation; white	
	Item no.: 890-131	www.wago.com/890-131
	Locking lever; for flying leads; for tool operation; white	www.wago.com/o90-13
assemblin	g	
K	Item no.: 890-310	www.waga.com/900.210
	Mounting carrier; 2- to 5-pole; for flying leads; black	www.wago.com/890-310
	Item no.: 890-311	WWW.Wogo.com/000.01
	Mounting carrier; 2- to 5-pole; for flying leads; white	www.wago.com/890-311
ools		
P	Item no.: 210-719	
7	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
	Item no.: 890-384	www.wago.com/890-384
	Operating tool; 4-way; green	www.wago.com/690-364

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Downloads CAD/CAE-Data

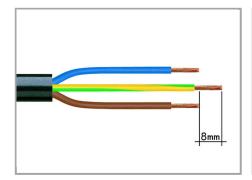
CAD data

2D/3D Models 890-224 URL Download

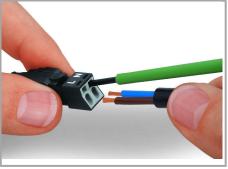
CAE data

WSCAD Universe 890-224 URL Download

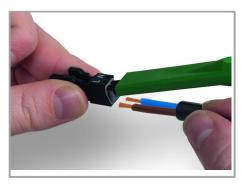
Installation Notes



- 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.

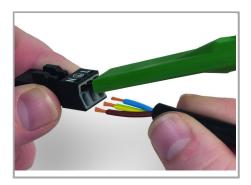
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Subject to changes. Please also observe the further product documentation!

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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.

Shield Connection



Connector with shield termination



Apply the shield to the rubber cable.



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

Strip length, outer insulation = 30 mm

Shield length = 8 mm

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

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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

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

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