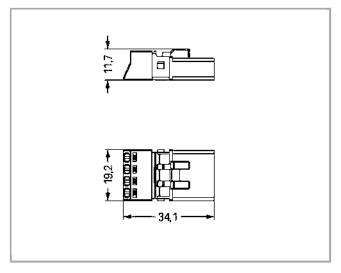
Plug; 4-pole; 1,50 mm<sup>2</sup>; white

www.wago.com/890-234







#### 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

#### 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.

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

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# Data **Electrical data**

Note on Contact Resistance approx. 1  $m\Omega$  of contact resistance approx. 0.25  $m\Omega$  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
Ground function	with preceding ground contact
Conductor entry direction to mating direction	0°

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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 <sub>N</sub> = 16 A, tested (1.5 mm²/AWG 16)	

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

## 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

#### **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	0.099 MJ
Weight	7.1 g

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## **Environmental Requirements**

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

#### Commercial data

Product Group	20 (WINSTA)
Packaging type	BOX
Country of origin	DE
GTIN	4045454233235
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**

Logo	Approval	Additional Approval Text	name
ABS.	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
DNV-GL MARITIME	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	EN 61535	08/20047 (E2)

#### **UL-Approvals**

	cURus	UL 1977	E45171
Logo	Approval	Additional Approval Text	name
			Certificate

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Cortificato





Underwriters Laboratories Inc.

## Counterpart

STO	
1.0	

Item no.890-124

Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm<sup>2</sup>; white

www.wago.com/890-124



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.890-224

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

www.wago.com/890-224



Item no.890-724

Snap-in socket; 4-pole; Cod. A; 1,50 mm<sup>2</sup>; white

www.wago.com/890-724



Item no.890-824

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

www.wago.com/890-824



Item no.890-824/011-000

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

www.wago.com/890-824/011-

000



Item no.890-994

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

www.wago.com/890-994



Item no.890-995

white

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

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 mm<sup>2</sup>; white

www.wago.com/891-8994

/006-102

Item no.891-8994/106-102

www.wago.com/891-8994

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pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 /106-102 m; 1,50 mm²; white

# Compatible products

assembling
------------

2	Item no.: 890-310	www.wago.com/890-310
-	Mounting carrier; 2- to 5-pole; for flying leads; black	www.wago.com/690-310
200	Item no.: 890-311	
al.	Mounting carrier; 2- to 5-pole; for flying leads; white	www.wago.com/890-311
ools		
1	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	www.wogo.com/000.204
	Operating tool; 4-way; green	www.wago.com/890-384
ocking lev	er	
-	Item no.: 890-101	www.wago.com/890-101
	Locking lever; for manual operation; black	www.wago.com/690-101
-	Item no.: 890-111	
4	Locking lever; for flying leads; for tool operation; black	www.wago.com/890-111
-	Item no.: 890-121	www.waga.com/900_121
300	Locking lever; for manual operation; white	www.wago.com/890-121
	Item no.: 890-131	
4	Locking lever; for flying leads; for tool operation; white	www.wago.com/890-131
shield conn	ection	
-	Item no.: 890-525	www.wago.com/890-525
	Shield connecting plate; 4-pole; for plugs	www.wago.com/690-525
Strain relief	plate	
	Item no.: 890-504	MMM Wago com/900 E0/
4,2	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	/000 -11
	Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 10.5 mm; 45 mm; white	www.wago.com/890-514

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# Downloads Documentation

**Bid Text** 

890-234 GAEB X81 - Datei	Feb 19, 2019	xml 3.0 kB	Download
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#### CAD/CAE-Data

CAD data

2D/3D Models 890-234 URL Download

CAE data

WSCAD Universe 890-234 URL Download

#### **Installation Notes**

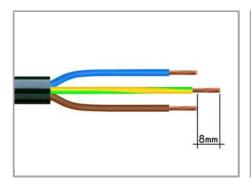
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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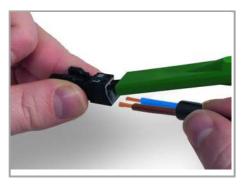
www.wago.com/890-234





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

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.

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

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

Terminate solid conductors by simply pushing them in.

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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.

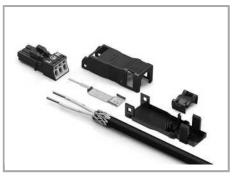


Latch the top of the strain relief housing.



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

#### **Shield Connection**



Connector with shield termination

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

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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**

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

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