

Data sheet | Item number: 890-135

Plug; with strain relief housing; 5-pole; 1,50 mm²; white

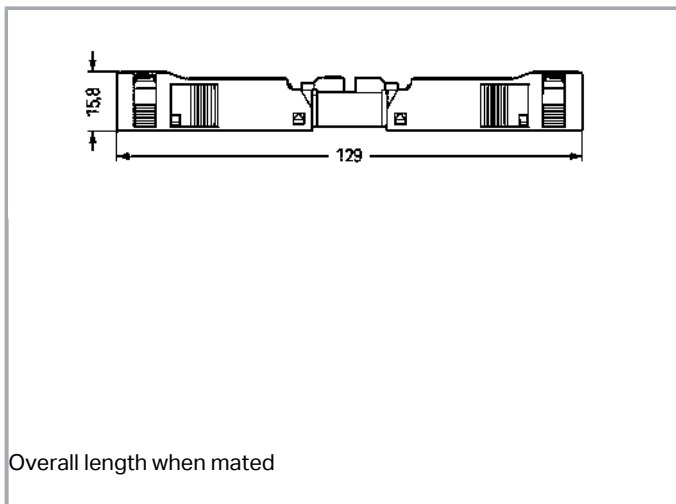
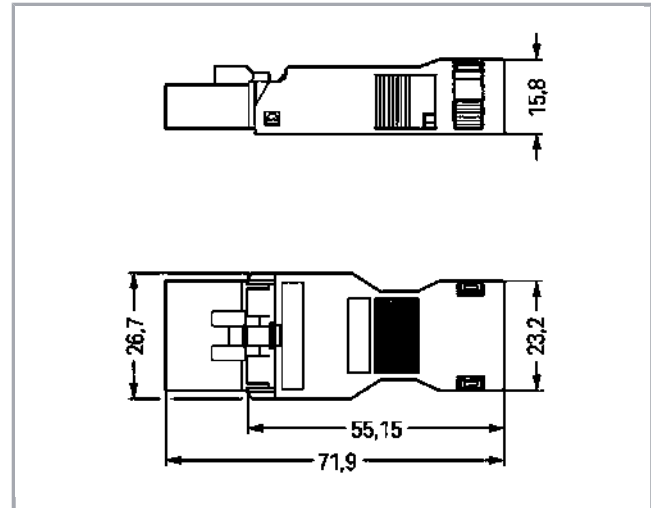
www.wago.com/890-135



RoHS
Compliant

BOMcheck.net

Color:



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
- When assembled, the installation connectors complies with IP40 and are suitable for easily accessible areas

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

WAGO Kontakttechnik GmbH & Co. KG
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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

**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:

- 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 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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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	13 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

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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	5
Total number of connection points	5
Total number of potentials	5
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	26,7 mm / 1.051 inch
Height	15,8 mm / 0.622 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 1 2 3
Protection class	IP40
Potential marking	N 1 2 3
Application	General mains applications

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for conductor

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



Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	retrofitable
Strain relief	strain relief housing

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	0.301 MJ
Weight	11.7 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	4045454233037
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

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS	Steel Vessel Rules	19-

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



American Bureau of Shipping

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PDA
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TAE00001Z6


LR
Lloyds Register

EN 61535

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(E2)

UL-Approvals

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

Counterpart


Item no.890-125
Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm²; white
www.wago.com/890-125
Item no.890-225
Socket; 5-pole; Cod. A; 1,50 mm²; white
www.wago.com/890-225
Item no.890-671
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white
www.wago.com/890-671
Item no.890-725
Snap-in socket; 5-pole; Cod. A; 1,50 mm²; white
www.wago.com/890-725
Item no.890-725/006-000
Snap-in socket; without locking lever; 5-pole; Cod. A; 1,50 mm²; white
www.wago.com/890-725/006-000
Item no.890-825
Socket for PCBs; straight; 5-pole; Cod. A
www.wago.com/890-825

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Item no. 890-825/011-000
Socket for PCBs; angled; 5-pole; Cod. A

www.wago.com/890-825/011-000



Item no. 890-979
h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white

www.wago.com/890-979



Item no. 890-980
h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white

www.wago.com/890-980



Item no. 890-672
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

www.wago.com/890-672



Item no. 891-8995/106-102
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/891-8995/106-102



Item no. 891-8995/006-102
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/891-8995/006-102

Compatible products

shield connection



Item no.: 890-527
Shield connecting plate; 5-pole; for plugs

www.wago.com/890-527

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.: 890-385
Operating tool; 5-way; green

www.wago.com/890-385

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

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

**Item no.: 890-131**

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

www.wago.com/890-131**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**Downloads****Documentation****Bid Text**

890-135 GAEB X81 - Datei	Feb 19, 2019	xml 3.1 kB	Download
890-135 doc - Datei	Jun 8, 2015	doc 24.1 kB	Download

CAD/CAE-Data**CAD data**

2D/3D Models 890-135	URL	Download
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CAE data

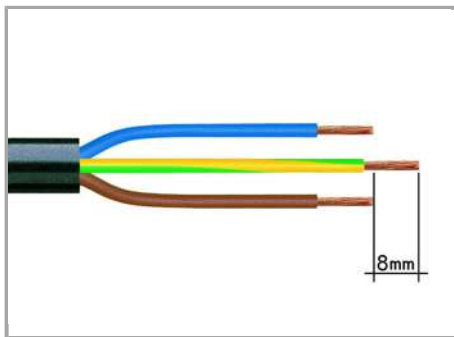
WSCAD Universe 890-135	URL	Download
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Installation Notes

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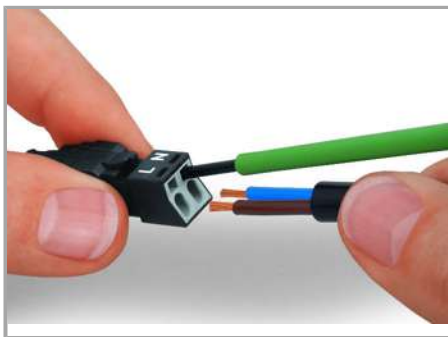
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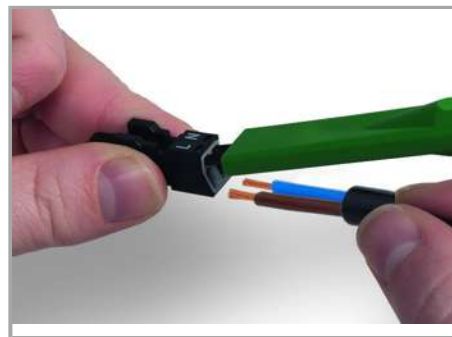
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm



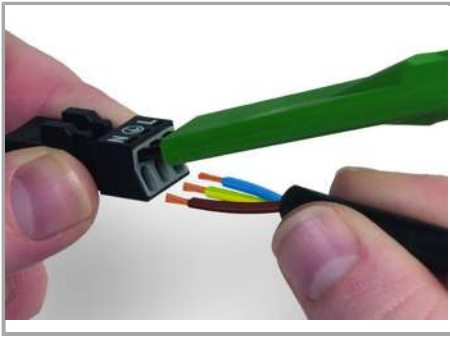
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



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.

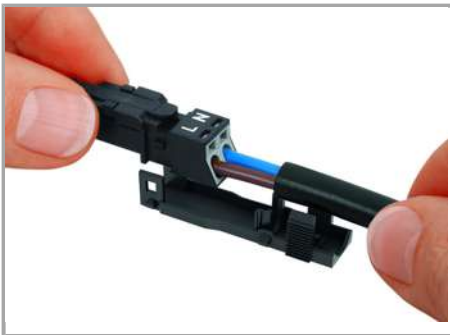
Subject to changes. Please also observe the further product documentation!



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.

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

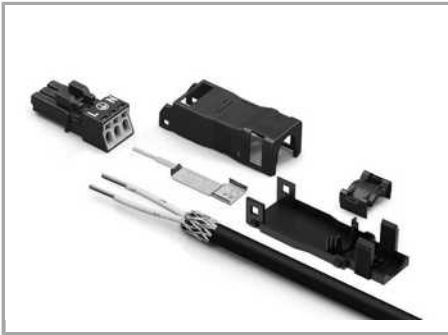


Latch the top of the strain relief housing.



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

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



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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