

### 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

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

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- Compact design with 4.4 mm pole spacing
- Components can be clearly printed on and color-coded to meet custom requirements

**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<sup>®</sup> components are 100% protected against mismatching in terms of:

- plugging different number of poles
- plugging when turned by 180°
- plugging when laterally staggered
- 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 contact resistance approx. 0.25 mΩ contact transition plug/socket
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**Ratings per IEC/EN 60664-1**

Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated current	16 A
Note on rated current	13 A for 3-pole load
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**

Actuation type	Operating tool Push-in
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Nominal cross section	1.5 mm <sup>2</sup>
Solid conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Solid conductor, push-in termination	0.75 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Stranded conductor	0.25 ... 1 mm <sup>2</sup> / 22 ... 18 AWG
Fine-stranded conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	3
Total number of connection points	3
Total number of potentials	3
Conductor entry direction to mating direction	0°

## Geometrical Data

Pin spacing	4.4 mm / 0.173 inch
Width	24.2 mm / 0.953 inch
Height	16 mm / 0.63 inch
Depth	34.1 mm / 1.343 inch

## Mechanical data

Coding	B
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	When locked: > 80 N
Unmating force of a plug-in connection	when 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 <sup>2</sup> /16 AWG)
Gehäuseblechstärke	0.5 ... 2 mm / 0.02 ... 0.079 inch
Mounting type	Snap-in
Marking	1 2 3
Protection class	IP20
Note on protection class	Only in mated condition with strain relief housing (These compact connectors are not designed for use in open, easily accessible areas.)
Potential marking	1 2 3

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Suitable

for lighting installation with intermediate coupler

## Plug connection

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

## Material Data

Color	gray
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy, surface-treated
Fire load	0.124 MJ
Weight	7.9 g

## Environmental Requirements


Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on Continuous Service Temperature	Insulating parts for temperatures $\leq 105$ °C

## Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4050821507994
Customs Tariff No.	85366990990

## Approvals / Certificates

### Country specific Approvals


Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	EN 61984	71- 100413

### Ship Approvals

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Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	EN 61535	08/20047 (E2)

## Counterpart



Item no.890-253

Plug; 3-pole; 1,50 mm<sup>2</sup>; gray[www.wago.com/890-253](http://www.wago.com/890-253)

Item no.891-8993/205-103

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm<sup>2</sup>; gray[www.wago.com/891-8993/205-103](http://www.wago.com/891-8993/205-103)

Item no.891-8993/005-103

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm<sup>2</sup>; gray[www.wago.com/891-8993/005-103](http://www.wago.com/891-8993/005-103)

## 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](http://www.wago.com/210-719)

Item no.: 890-383

Operating tool; 3-way; green

[www.wago.com/890-383](http://www.wago.com/890-383)

### protection



Item no.: 890-643

Lockout cap; 3-pole; for cutouts; Plastic; black

[www.wago.com/890-643](http://www.wago.com/890-643)

Item no.: 890-693

Lockout cap; 3-pole; for cutouts; Plastic; white

[www.wago.com/890-693](http://www.wago.com/890-693)

## Installation Notes

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

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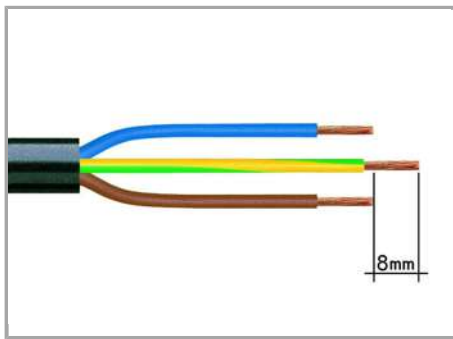
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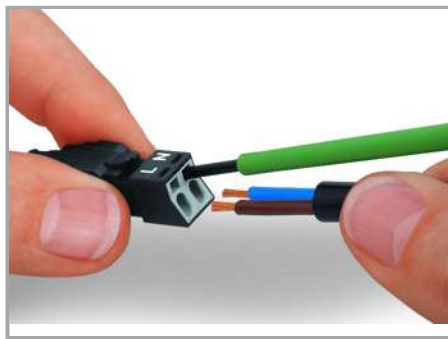
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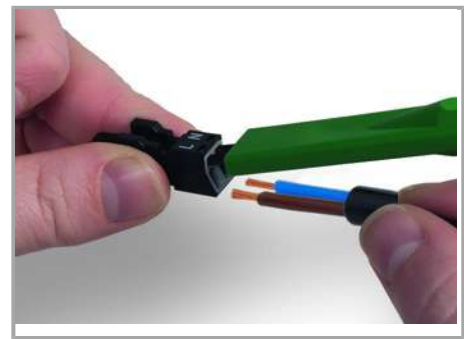
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

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.



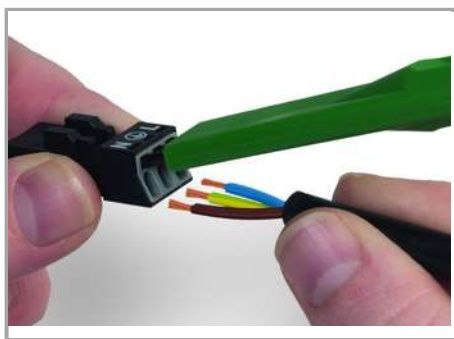
To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

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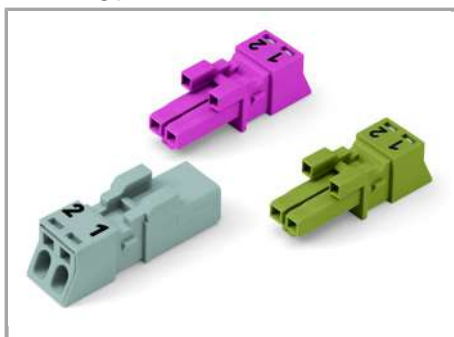
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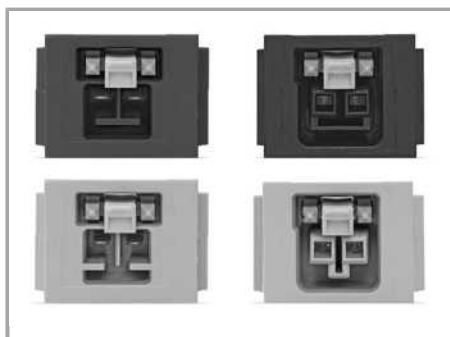
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

#### Mismatching protection



B-coded connectors with different colors can be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



#### Important note:

Different colors and/or pole marking are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.

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