

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
- Two-wire connection per pole for loops or bridges
- 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® 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

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

**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 16 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

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Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated current	25 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)	23 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross section	4 mm²
Solid conductor	0,5 ... 4 mm² / 20 ... 12 AWG
Solid conductor, push-in termination	1,5 ... 4 mm² / 16 ... 12 AWG
Stranded conductor	0,5 ... 2,5 mm² / 20 ... 14 AWG
Fine-stranded conductor	0,5 ... 4 mm² / 20 ... 12 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 ... 1,5 mm² / 20 ... 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0,25 ... 2,5 mm² / 20 ... 14 AWG
Fine-stranded conductor with ferrule, push-in termination, from	1,5 mm² / 16 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	2
Total number of connection points	4
Total number of potentials	2

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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Conductor entry direction to mating direction	0°
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Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	20 mm / 0.787 inch
Height	12,9 mm / 0.508 inch
Depth	37,5 mm / 1.476 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	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 $I_N = 25$ A, tested (4 mm ² /AWG 12)
Marking	1 2
Protection class	IP20
Note on protection class	In mated condition with strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas.)
Potential marking	1 2

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	gray
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)

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



Fire load	0.127 MJ
Weight	6.4 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	4050821541875
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-32104
	CCA DEKRA Certification B.V.	EN 61984	2173495.01

Ship Approvals


Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1868589-PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	02/20050 (E6)

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UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		Sec. 9

Counterpart

**Item no.770-1601**

T-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; gray

www.wago.com/770-1601**Item no.770-1608**

h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on both sides; 2 locking levers; gray

www.wago.com/770-1608**Item no.770-1651**

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

www.wago.com/770-1651**Item no.770-1658**

h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; gray

www.wago.com/770-1658**Item no.770-1704**

3-way distribution connector; 2-pole; Cod. B; 1 input; 3 outputs; gray

www.wago.com/770-1704**Item no.770-1701**

T-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; gray

www.wago.com/770-1701**Item no.770-1751**

h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; gray

www.wago.com/770-1751

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**Item no. 770-242**Socket; 2-pole; Cod. B; 4,00 mm²; graywww.wago.com/770-242**Item no. 771-8992/005-103**pre-assembled interconnecting cable; Socket/plug; 2-pole; Cod. B; Control cable 2 x 1.0 mm²; 1 m; 1,00 mm²; graywww.wago.com/771-8992/005-103**Item no. 771-8992/105-103**pre-assembled connecting cable; Socket/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm²; 1 m; 1,00 mm²; graywww.wago.com/771-8992/105-103

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**Item no.: 770-382**

Operating tool; 2-way; green

www.wago.com/770-382

General accessories

**Item no.: 770-317**

Snap-in frame; 2-pole; 0.5 ... 2.0 mm; black

www.wago.com/770-317**Item no.: 770-337**

Snap-in frame; 2-pole; 0.5 ... 2.0 mm; black

www.wago.com/770-337

protection

Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Strain relief plate

**Item no.: 770-502/041-000**

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; black

www.wago.com/770-502/041-000**Item no.: 770-502/042-000**

Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; black

www.wago.com/770-502/042-000**Item no.: 770-512/041-000**

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; white

www.wago.com/770-512/041-000**Item no.: 770-512/042-000**

Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; white

www.wago.com/770-512/042-000

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Locking lever

	Item no.: 770-101 Locking lever; for flying leads; for manual operation; black	www.wago.com/770-101
	Item no.: 770-111 Locking lever; for flying leads; for tool operation; black	www.wago.com/770-111
	Item no.: 770-121 Locking lever; for flying leads; for manual operation; white	www.wago.com/770-121
	Item no.: 770-131 Locking lever; for flying leads; for tool operation; white	www.wago.com/770-131

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 770-252	URL	Download
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CAE data

EPLAN Data Portal 770-252	URL	Download
WSCAD Universe 770-252	URL	Download

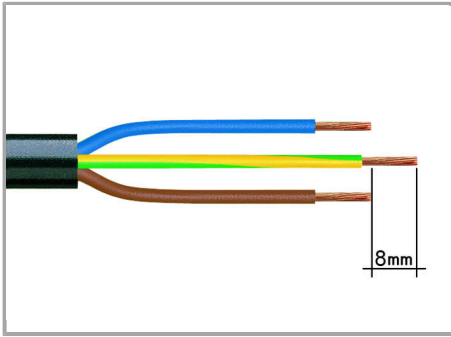
Installation Notes

Conductor termination

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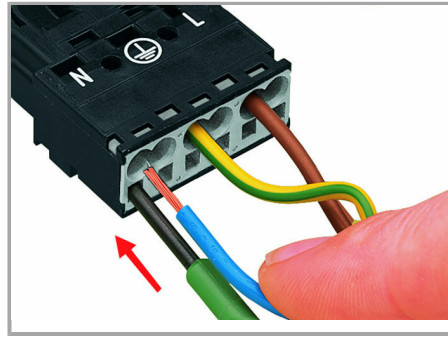
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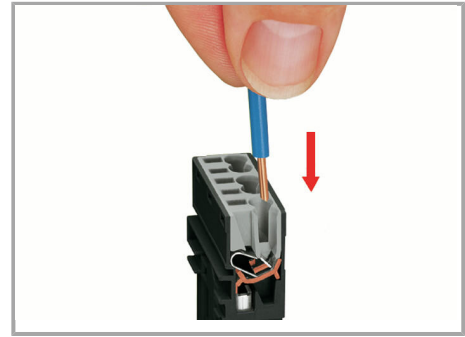
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

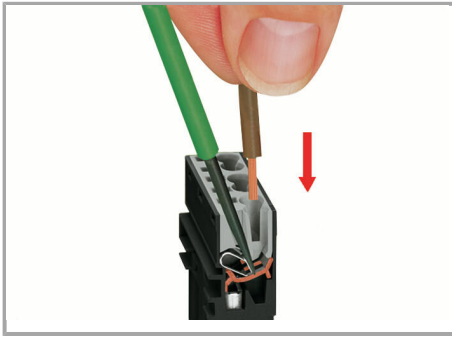


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.



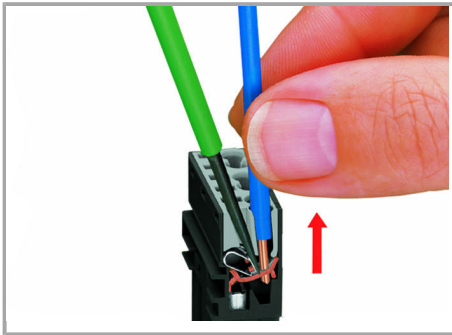
Insert stripped solid conductor until it hits backstop.

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



To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.

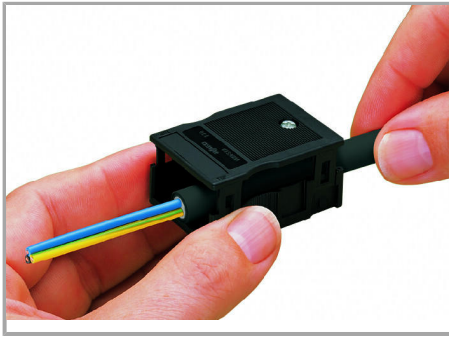
Conductor removal



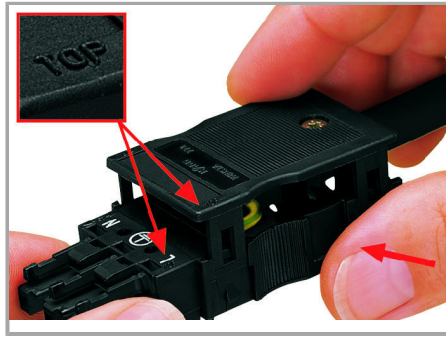
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

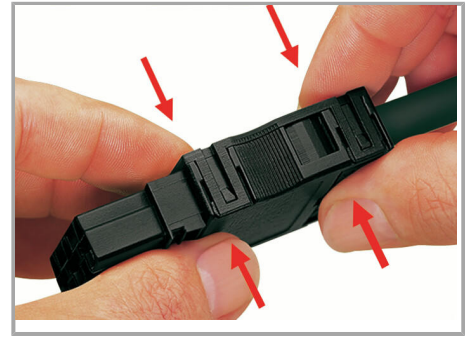
Subject to changes. Please also observe the further product documentation!



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing on the plug /socket. Note the "TOP" inscription.

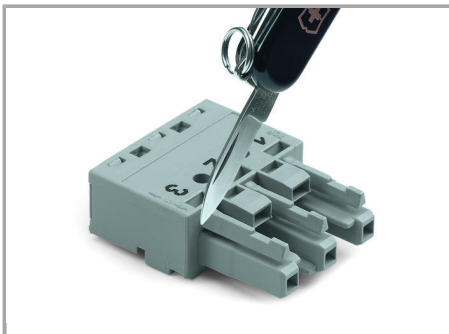


Prepare strain relief housing by snapping together upper and bottom part.

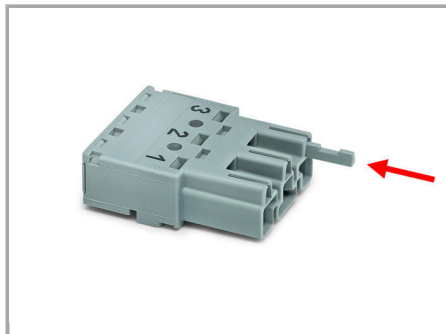


Tighten strain relief screw via screwdriver (2.5 mm blade width).

Coding



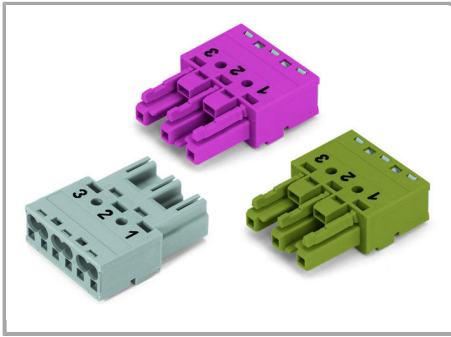
Simply cut off the coding pin from the socket.



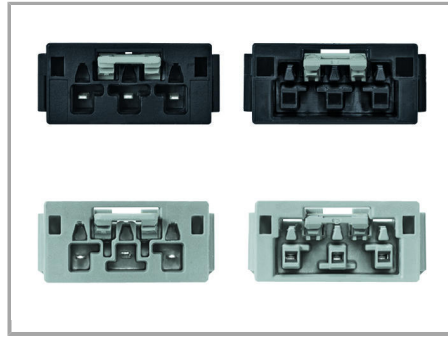
Insert coding pin into plug (break first) until it engages.

Mismatching protection

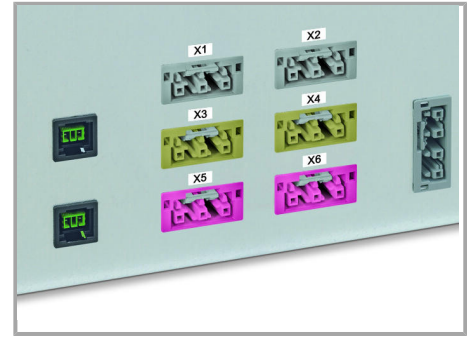
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B-coded connectors with different colors can be plugged together.



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



Easy circuit identification via different marking and colors

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.

Product family

<i>WINSTA</i>® MIDI special

[Show all products from the family](#)

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