

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
- Additional variable coding is possible
- 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

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



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 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

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	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	4
Total number of connection points	8

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

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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.



Total number of potentials	4
Conductor entry direction to mating direction	0°

Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	40 mm / 1.575 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	N 2/L 1/L'
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	N 2/L 1/L'

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	retrofitable

Material Data

Color	gray
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)

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

Contact material	Copper or copper alloy (surface-treated)
Fire load	0.211 MJ
Weight	12.6 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

Packaging type	BOX
Country of origin	DE
GTIN	4050821492757
Customs Tariff No.	85366990990

Approvals / Certificates

UL-Approvals

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





Counterpart

	Item no. 770-754/060-000 Snap-in plug; 4-pole; Cod. B; 4,00 mm ² ; gray	www.wago.com/770-754/060-000
	Item no. 770-854/011-000/060-000 Plug for PCBs; angled; 4-pole; Cod. B; gray	www.wago.com/770-854/011-000/060-000
	Item no. 770-254/060-000 Plug; 4-pole; Cod. B; 4,00 mm ² ; gray	www.wago.com/770-254/060-000
	Item no. 770-854/060-000 Plug for PCBs; straight; 4-pole; Cod. B; gray	www.wago.com/770-854/060-000


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Compatible products

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


tools

	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
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Marking accessories

	Item no.: 770-450 Marker card; Plastic; white	www.wago.com/770-450
	Item no.: 770-450/000-001 Marker card; Plastic; white	www.wago.com/770-450/000-001
	Item no.: 770-450/000-002 Marker card; Plastic; white	www.wago.com/770-450/000-002
	Item no.: 770-450/000-005 Marker card; Plastic; white	www.wago.com/770-450/000-005
	Item no.: 770-450/000-006 Marker card; Plastic; white	www.wago.com/770-450/000-006
	Item no.: 770-450/000-012 Marker card; Plastic; white	www.wago.com/770-450/000-012

Strain relief plate

	Item no.: 770-504 Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black	www.wago.com/770-504
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Item no.: 770-504/023-000
Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black

www.wago.com/770-504/023-000



Item no.: 770-514
Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

www.wago.com/770-514



Item no.: 770-514/023-000
Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

www.wago.com/770-514/023-000

protection



Item no.: 770-201
Lockout cap; 12-pole, separable; 12-pole; for sockets; black

www.wago.com/770-201



Item no.: 770-221
Lockout cap; for socket; 12-pole; separable; white

www.wago.com/770-221

Downloads

Documentation

Bid Text

770-244/060-000 GAEB X81 - Datei	Feb 19, 2019	xml 3.0 kB	Download
770-244/060-000 doc - Datei	Jun 8, 2015	doc 24.1 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-244/060-000	URL	Download
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CAE data

WSCAD Universe 770-244/060-000	URL	Download
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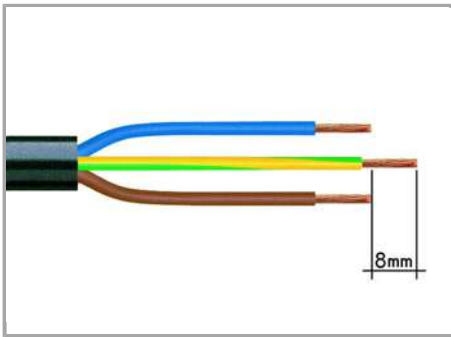
Installation Notes

Conductor termination

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

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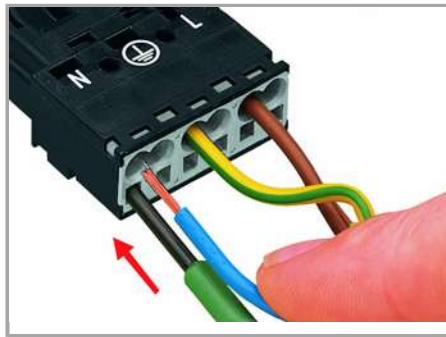
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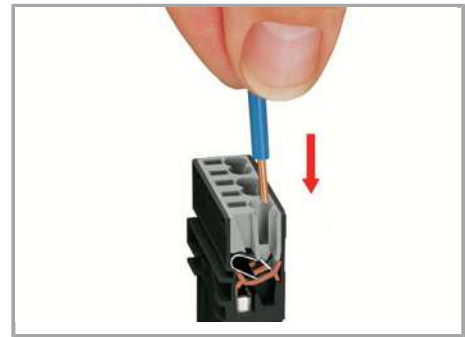
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

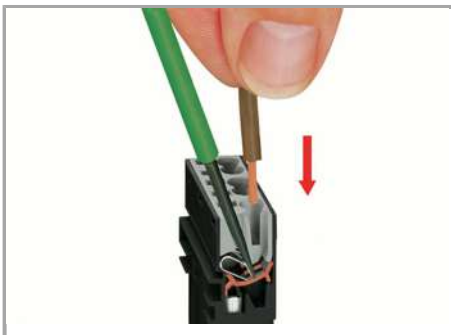
3. Extended ground conductor = 8 mm



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



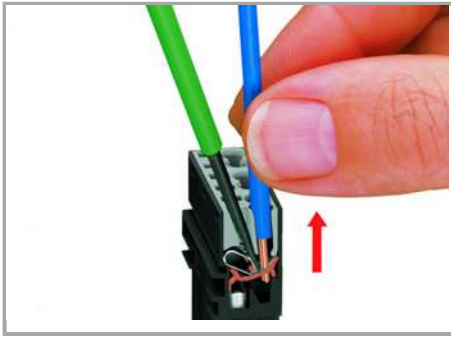
Insert stripped solid conductor until it hits backstop.



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

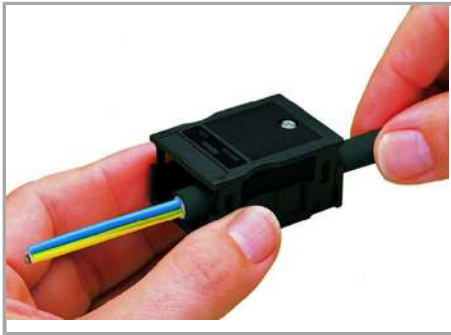
Conductor removal

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

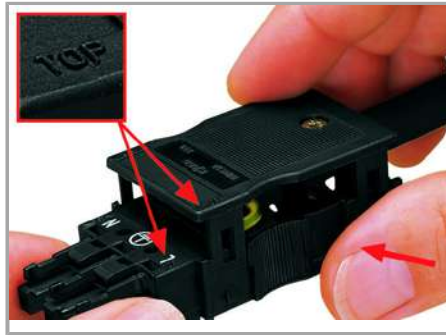


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

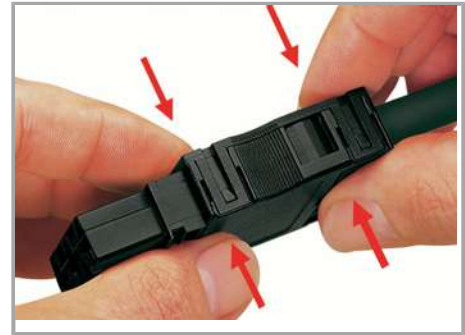
Installation



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.



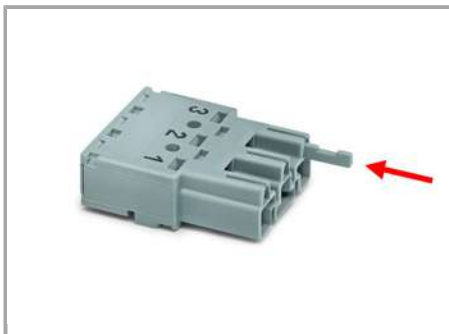
Tighten strain relief screw via screwdriver (2.5 mm blade width).

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

Coding

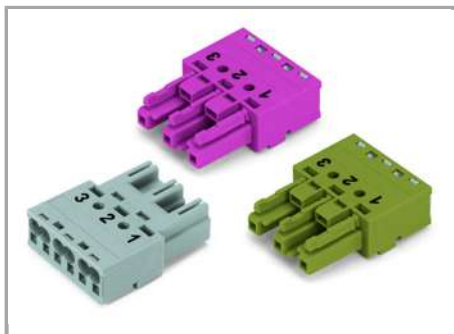


Simply cut off the coding pin from the socket.

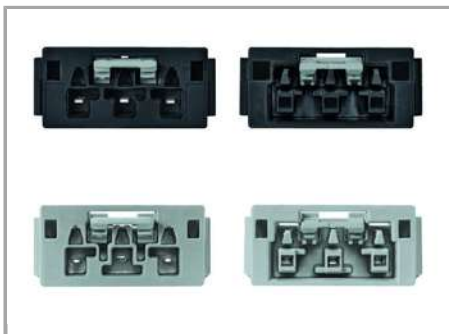


Insert coding pin into plug (break first) until it engages.

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.



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](#)

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