

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 connections per pole for loops or bridges
- Additional variable coding is possible.
- Components can be clearly printed on and color-coded to meet custom requirements.

Data

Electrical data

Note on contact resistance

approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	400 V
Rated surge voltage (III/3)	6 kV
Rated current	25 A

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

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Legend (ratings)

(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL

Hinweis für den amerikanischen Markt

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.

Rated voltage UL 1977	600 V
Rated current UL 1977	23 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm ²
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 12 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 16 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
Pole No.	5
Total number of connection points	10
Total number of potentials	5
Conductor entry direction to mating direction	0°

Physical data

Pin spacing	10 mm / 0.394 inch
Width	50 mm / 1.969 inch
Height	12.9 mm / 0.508 inch
Depth	37.5 mm / 1.476 inch

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Mechanical data

Application	Measurement and regulation technology
Coding	B
Marking	N L1 L2 L3
Potential marking	N L1 L2 L3
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
Protection class	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)
Protection type	IP20
Note on protection type	When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
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
Locking lever	Can be retrofitted
Locking of plug-in connection	locking lever
Hinweis zur Verriegelung	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).

Material data

Color	gray
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)

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Fire load	0.324 MJ
Weight	16.6 g

Environmental requirements


Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data






Packaging type	BOX
Country of origin	DE
GTIN	4050821494188
Customs tariff number	8536694040

Approvals / Certificates

UL-Approvals

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

Counterpart

	Item no.770-245/060-000 Socket; 5-pole; Cod. B; 4,00 mm ² ; gray	www.wago.com/770-245/060-000
	Item no.770-745/060-000 WINSTA® through-panel socket (female); snap-in; N/G/L1/L2/L3 marking; 5-pole; gray	www.wago.com/770-745/060-000
	Item no.770-845/011-000/060-000 Socket for PCBs; angled; 5-pole; Cod. B; gray	www.wago.com/770-845/011-000/060-000
	Item no.770-845/060-000 Socket for PCBs; straight; 5-pole; Cod. B; gray	www.wago.com/770-845/060-000
	Item no.772-265/060-000 Tap-off module; for flat cable; 5 x 2.5 mm ² + 2 x 1.5 mm ² ; 5-pole; Cod. B; with cable connection on the output side; gray	www.wago.com/772-265/060-000

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Required accessories

Strain relief

	Item no.: 770-505 Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black	www.wago.com/770-505
	Item no.: 770-505/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black	www.wago.com/770-505/023-000
	Item no.: 770-515 Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white	www.wago.com/770-515
	Item no.: 770-515/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white	www.wago.com/770-515/023-000

Locking levers

	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

Optional accessories

Cover

	Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow	www.wago.com/770-360
	Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red	www.wago.com/897-2005

Coding

	Item no.: 770-401 Coding pin; for plugs; Plastic; gray	www.wago.com/770-401
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Mounting

	Item no.: 770-320 Snap-in frame; 5-pole; 1.0 ... 3.0 mm; black	www.wago.com/770-320
	Item no.: 770-321 Snap-in frame; 5-pole; 0.5 ... 2.0 mm; black	www.wago.com/770-321

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



 **Item no.: 770-340** www.wago.com/770-340
Snap-in frame; 5-pole; 1.0 ... 3.0 mm; white

 **Item no.: 770-341** www.wago.com/770-341
Snap-in frame; 5-pole; 0.5 ... 2.0 mm; white

Tools



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

Marking accessories

 **Item no.: 770-450** www.wago.com/770-450
Marker card; Plastic; white

 **Item no.: 770-450/000-001** www.wago.com/770-450/000-001
Marker card; Plastic; green


 **Item no.: 770-450/000-002** www.wago.com/770-450/000-002
Marker card; Plastic; yellow


 **Item no.: 770-450/000-005** www.wago.com/770-450/000-005
Marker card; Plastic; red

 **Item no.: 770-450/000-006** www.wago.com/770-450/000-006
Marker card; Plastic; blue

 **Item no.: 770-450/000-012** www.wago.com/770-450/000-012
Marker card; Plastic; orange

Strain relief

 **Item no.: 770-505/021-000** www.wago.com/770-505/021-000
Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

 **Item no.: 770-515/021-000** www.wago.com/770-515/021-000
Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

Downloads

Documentation

Bid Text

770-255/060-000	Jun 8, 2015	doc	Download
doc - Datei		24.6 kB	

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



770-255/060-000

Feb 19, 2019

xml
3.0 kB

[Download](#)

X81 - Datei

CAD files

CAE data

WSCAD Universe 770-255/060-000

[URL](#)

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ZUKEN Portal 770-255/060-000

[URL](#)

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WSCAD Universe 770-255/060-000

[URL](#)

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CAD data

2D/3D Models 770-255/060-000

[URL](#)

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-255/060-000

[URL](#)

[Download](#)

Plug; 5-pole; Cod. B; 4,00 mm²; gray

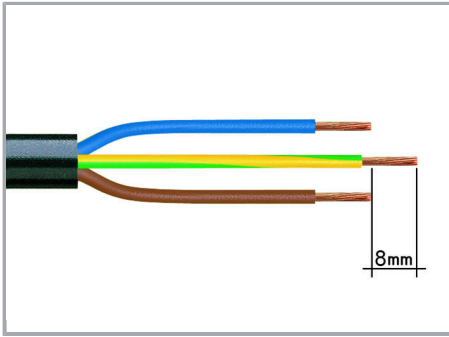
Installation Notes

Conductor termination

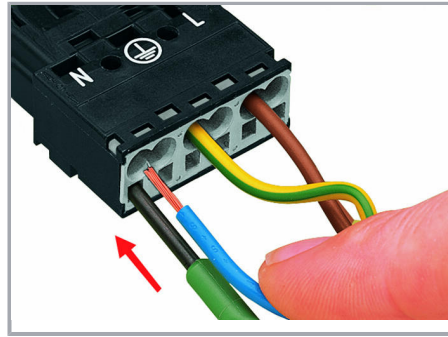
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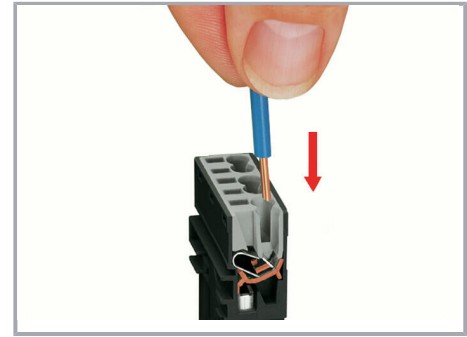
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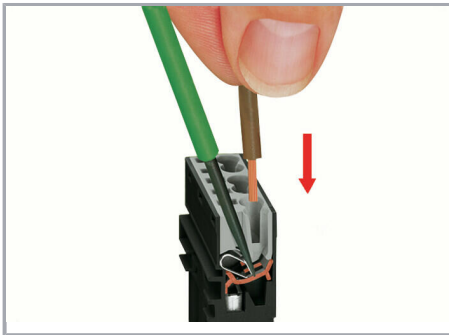
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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



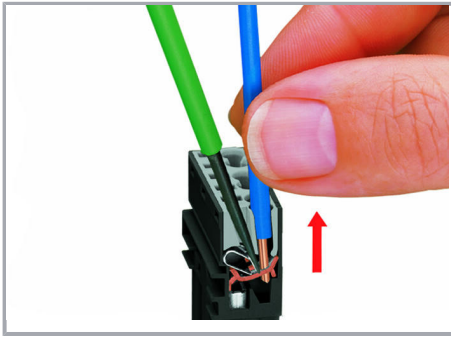
Insert the stripped solid conductor until it hits the backstop.



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

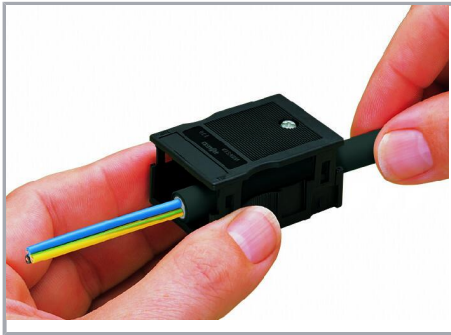
Conductor removal

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

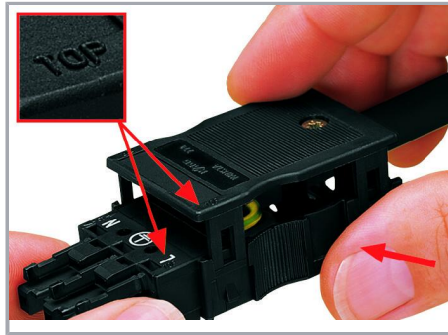


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

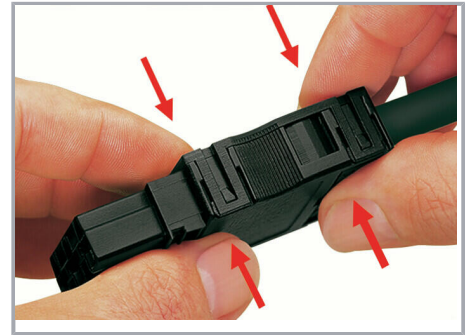
Installation



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 onto the plug /socket. Note the "TOP" inscription.



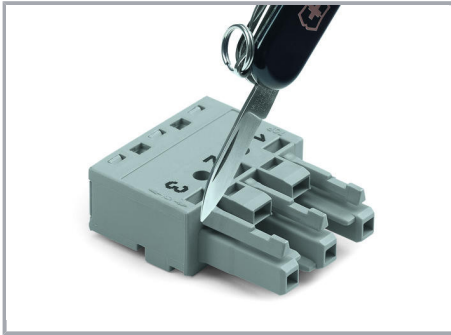
Prepare strain relief housing by snapping together upper and bottom part.



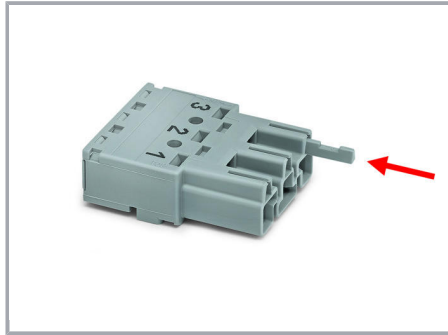
Tighten strain relief screw with screwdriver (2.5 mm blade width).

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Coding

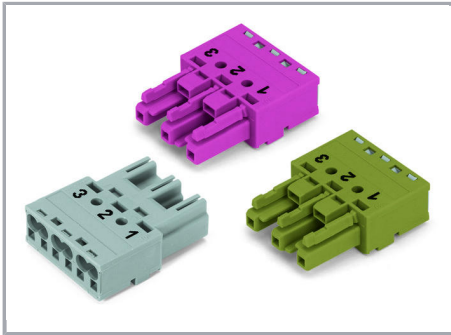


Simply cut off the coding pin from the socket.



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

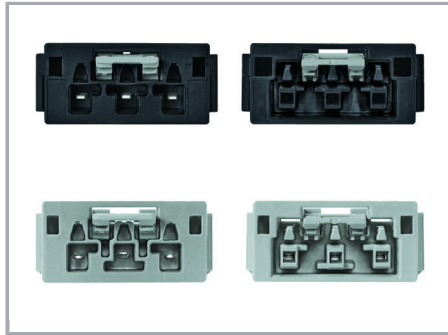
Mismatching protection



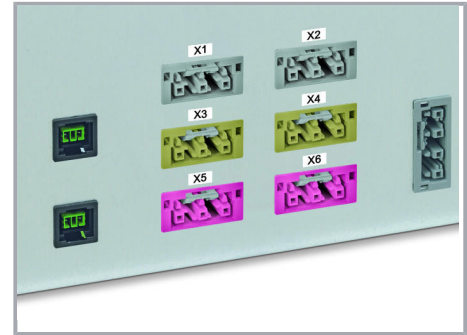
B-coded connectors with different colors can be plugged together.

Important note:

Different colors and/or pole markings are used for circuit identification. Only connectors of the same color and same pole marking must 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

Product family

WINSTA® MIDI

[Show all products from the family](#)

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