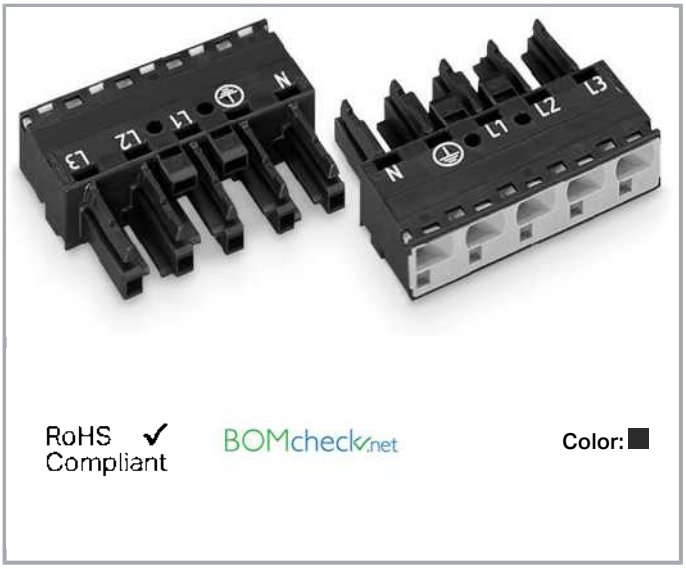
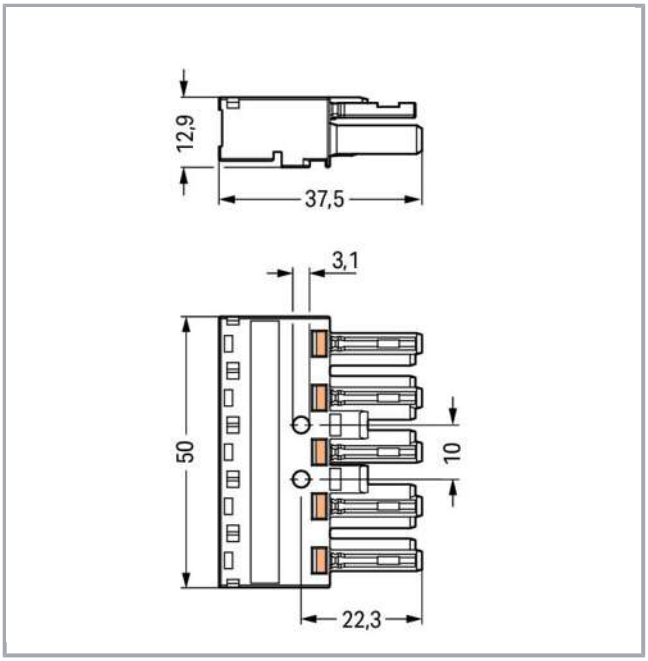
Data sheet | Item number: 770-405

Socket; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-405





Item description

- Fehlsteckgeschützt und wartungsfrei
- Push-in CAGE CLAMP®-Federanschlusstechnik für das direkte Stecken eindrähtiger Leiter
- Zusätzliche variable Kodierung möglich

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 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

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.

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

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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	5
Total number of connection points	5
Total number of potentials	5
Conductor entry direction to mating direction	0 °

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Geometrical 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

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 = 25 A, tested (4 mm²/AWG 12)
Marking	N L1 L2 L3
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 L1 L2 L3
Application	General mains applications

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	retrofittable

Material Data

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

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Fire load	0.264 MJ
Weight	15.8 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	4044918252522
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	2173495.02
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61984	40002889

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	IEC 61984	02/20050

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	Lloyds Register	(E6)

UL-Approvals

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

Counterpart

	Item no.770-115 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-115
	Item no.770-215 Plug; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-215
	Item no.770-315 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-315
	Item no.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770-609
	Item no.770-415 Plug; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-415
	Item no.770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-621
	Item no.770-622 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/770-622
	Item no.770-640 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black	www.wago.com/770-640
	Item no.770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white	www.wago.com/770-659

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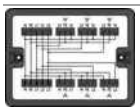
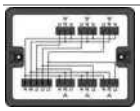
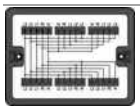
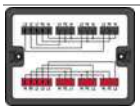
	Item no.770-715 Snap-in plug; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-715
	Item no.770-815/011-000 Plug for PCBs; angled; 5-pole; Cod. A; black	www.wago.com/770-815/011-000
	Item no.770-815 Plug for PCBs; straight; 5-pole; Cod. A; black	www.wago.com/770-815
	Item no.770-715/007-000 Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-715/007-000
	Item no.771-9995/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black	www.wago.com/771-9995/006-101
	**Item no.899-631/100-000** Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black	www.wago.com/899-631/100-000
	Item no.771-9995/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black	www.wago.com/771-9995/206-101
	**Item no.899-631/105-000** Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI; black	www.wago.com/899-631/105-000
	**Item no.899-631/187-000** Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black	www.wago.com/899-631/187-000
	**Item no.899-631/302-000** Distribution box; Three-phase to single-phase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black	www.wago.com/899-631/302-000

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.: 770-100 Wiring aid; for solid and stranded conductors; orange	www.wago.com/770-100

Marking accessories

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	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

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

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

770-405 doc - Datei	Jun 8, 2015	doc 24.1 kB	Download

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CAD/CAE-Data

CAD data

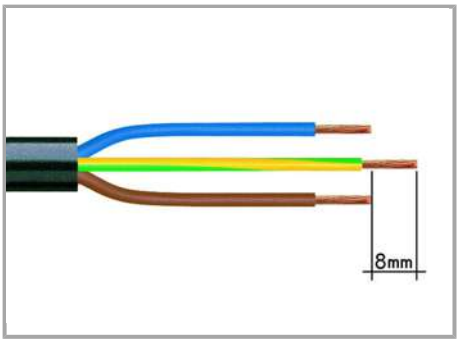
2D/3D Models 770-405	URL	Download

CAE data

EPLAN Data Portal 770-405	URL	Download
WSCAD Universe 770-405	URL	Download

Installation Notes

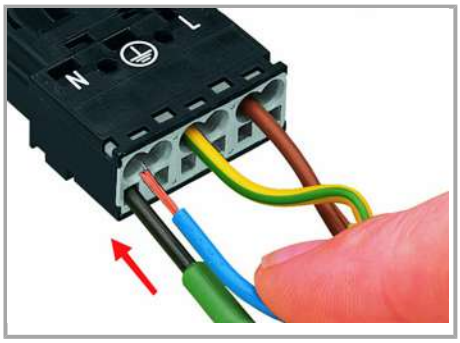
Conductor termination



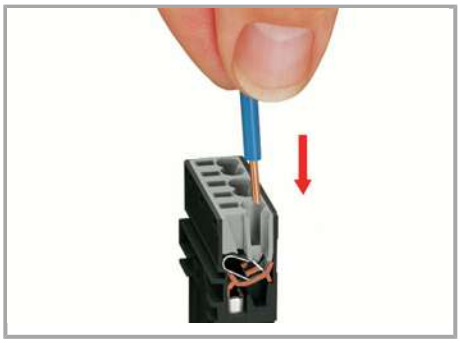
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

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.

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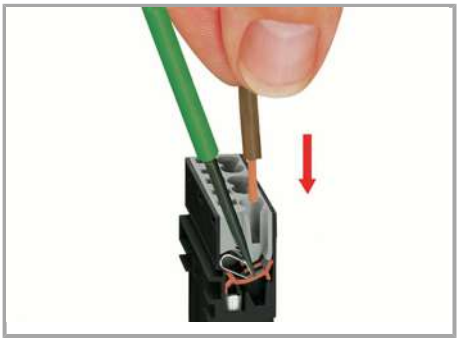
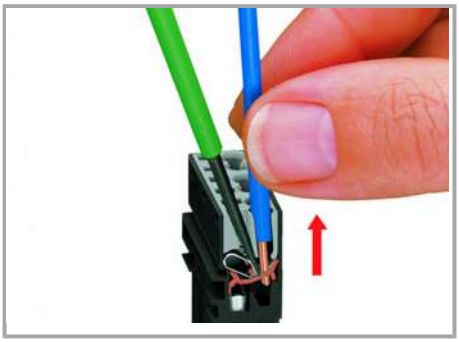


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.

Conductor removal



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

Installation

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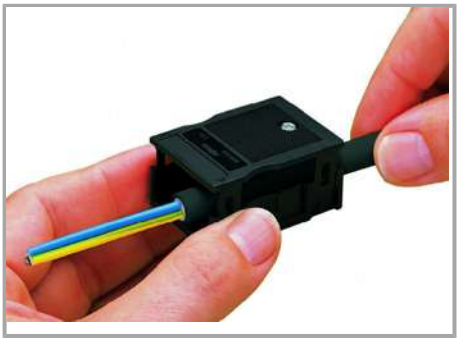
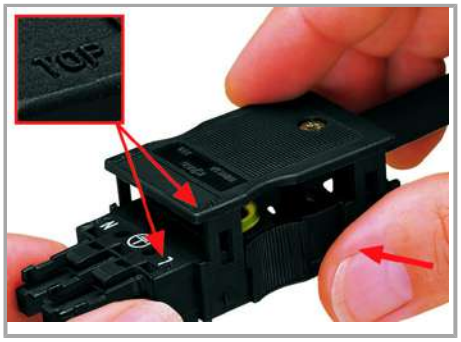
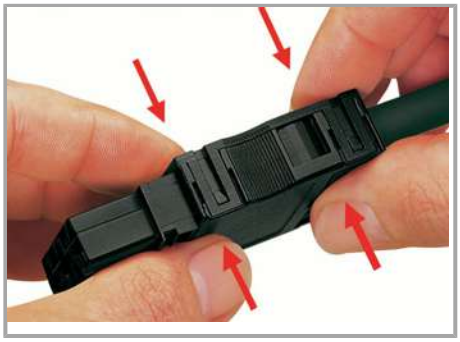


We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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).

Product family

WINSTA® MIDI
Show all products from the family

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