Color:

Item description

Male connector/plug *WINSTA*® MIDI 5-pole

The *WINSTA*® MIDI male connector/plug L coding allows assembly of fine-stranded and solid conductors. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to various requirements in next to no time. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). The 2- or 5-pole version of the dark grey *WINSTA*® MIDI pluggable installation connectors with L coding supports use of an emergency power supply. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Due to the integrated test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and expense.

Lower costs through fast commissioning and elimination of service expenses – solutions from *WINSTA*® MIDI

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It allows error-free installation of cables and components, quickly and reliably. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure

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

connection technology too! Plan your installation with *WINSTA®* MIDI pluggable installation connectors with protection type IP20 from WAGO.

- ■
- ■ pluggable installation connectors with protection against mismating
- ■ for automation controllers
- ■ with L coding for use in supplying power to power supply units or small servo motors
- ■ flexible installation to save space
- ■ rapid, structured electrical installation

Data
Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal 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

Ratings per UL 1977

Note for the US market	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

General information

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

Connection data

Connection points	10
Total number of potentials	5
PE function	Preceding PE contact

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

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm² / 12 AWG
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 insulated ferrule	0.25 … 1.5 mm² / 20 … 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm² / 20 … 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	5
Conductor entry direction to mating direction	0 °

Physical data

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

Mechanical Data

Application	Emergency power supply
Coding	L
Variable coding	No
Marking	L' N' L ⏚ N
Potential marking	L' N' L ⏚ N
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 type	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

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

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
Note on locking system	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

Note (material data)	Information on material specifications can be found here
Color	dark gray
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.369 MJ
Weight	16.7 g

Environmental requirements

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

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

Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821064398
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71-123228
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name

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.

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Approvals for marine applications

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	LR22429487TA

Counterpart

	Item no.770-1165 Socket; 5-pole; Cod. L; 4,00 mm²; dark gray	www.wago.com/770-1165
	Item no.770-7505 Linect® T-connector; 5-pole; Cod. L; 1 input; 2 outputs; white	www.wago.com/770-7505
	Item no.771-8985/006-103 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. L; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; dark gray	www.wago.com/771-8985/006-103
	Item no.771-8985/106-103 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. L; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; dark gray	www.wago.com/771-8985/106-103

Required accessories

Locking levers

Locking system

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

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

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

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

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

Strain relief

Strain relief housing

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

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

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

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

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

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

Optional accessories

Cover

Cover

	Item no.: 770-360	www.wago.com/770-360
	Lockout cap; for plugs; 5-pole; separable; yellow	

	Item no.: 897-2005	www.wago.com/897-2005
	Protective cap; Type4; for sockets and plugs; PVC; red	

Tool

Wiring aid

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

www.wago.com/770-100

Item no.: 770-100
Wiring aid; 2- to 5-pole; Plastic; orange

Operating tool

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

www.wago.com/210-719

Mounting

Mounting accessories

Item no.: 770-320
Snap-in frame; 5-pole; 1.0 … 3.0 mm; black

www.wago.com/770-320

Item no.: 770-321
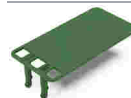Snap-in frame; 5-pole; 0.5 … 2.0 mm; black

www.wago.com/770-321

Item no.: 770-340
Snap-in frame; 5-pole; 1.0 … 3.0 mm; white

www.wago.com/770-340

Item no.: 770-341
Snap-in frame; 5-pole; 0.5 … 2.0 mm; white

www.wago.com/770-341

Marking accessories

Marker

Item no.: 770-450/000-002
Marker card; Plastic; yellow

www.wago.com/770-450
/000-002

Item no.: 770-450/000-001
Marker card; Plastic; green

www.wago.com/770-450
/000-001

Item no.: 770-450/000-005
Marker card; Plastic; red

www.wago.com/770-450
/000-005

Item no.: 770-450
Marker card; Plastic; white

www.wago.com/770-450

Item no.: 770-450/000-006
Marker card; Plastic; blue

www.wago.com/770-450
/000-006

Item no.: 770-450/000-012
Marker card; Plastic; orange

www.wago.com/770-450
/000-012

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

Do you have any questions about our products?
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Coding

Coding

Item no.: 770-401
Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

Downloads
Documentation

Bid Text

770-1175 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-1175 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

CAD/CAE-Data

CAE data

WSCAD Universe 770-1175	URL	Download

Environmental Product Compliance

Compliance Search

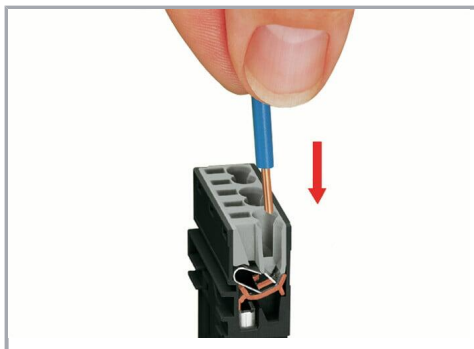|		
Environmental Product Compliance 770-1175 Plug; 5-pole; Cod. L; 4,00 mm²; dark gray	URL	Download

Installation Notes

Conductor termination

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

Do you have any questions about our products?
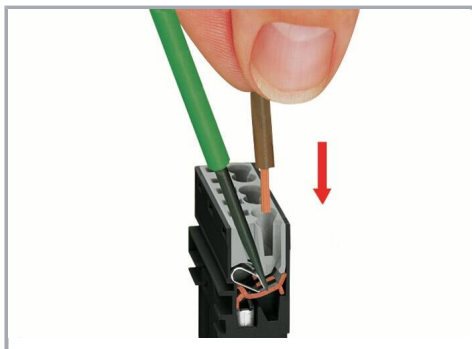We are always happy to take your call at +49 (571) 887-44222.

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.
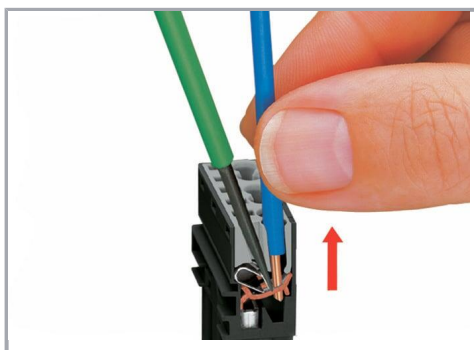

Insert the stripped solid conductor until it hits the backstop.

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.
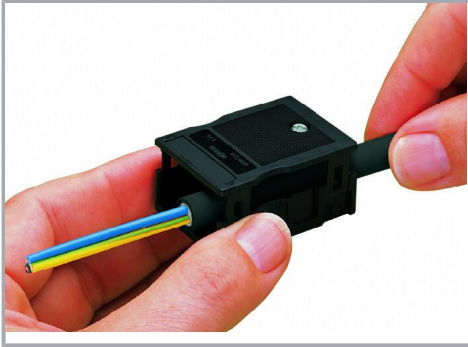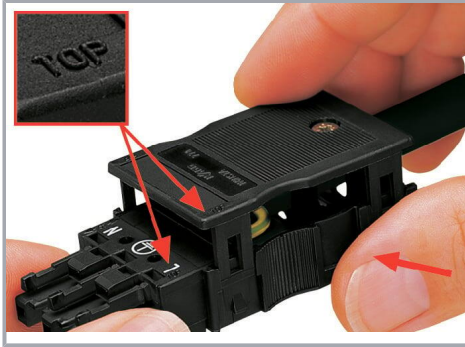
Conductor removal

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

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

Do you have any questions about our products?
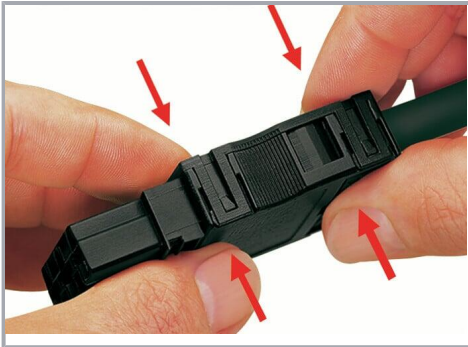We are always happy to take your call at +49 (571) 887-44222.

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).

Product family

WINSTA® MIDI
Show all products from the family

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