Color: ▬

Item description

Male connector/plug *WINSTA*® MIDI with protection against mismating

The *WINSTA*® MIDI male connector/plug I coding allows assembly of solid and fine-stranded conductors. Our pluggable installation connectors with spring pressure connection technology work without screw connections. They allow fast, efficient, error-free installation in numerous applications. The coding options reduce installation errors, allowing fast, secure 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!)). I coding in blue is used to label *WINSTA*® MIDI pluggable installation connectors, which are used primarily in automation of buildings for activating lighting. The rated current and voltage are important criteria for selecting a pluggable installation connector: They provide information about possible domains of use and applications. This product has a current rating of 25 A – as a result it is also suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in can be found in a variety of projects you can use for quick, easy, secure, tailored installation.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It allows fast, secure and,

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
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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.

above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

-
- effective protection against mismating
- for automation controllers
- for intelligent, easy lighting installation
- exact dimensions
- convenient installation and commissioning

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	DALI, Lighting Management
Coding	I
Variable coding	No
Marking	DA+ DA- L ⏚ N
Potential marking	DA+ DA- 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	blue
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	0.365 MJ
Weight	15.7 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

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	4044918254816
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
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
	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

Certificate

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

Logo	Approval	Additional Approval Text	name
CE	**EU-Declaration of Conformity** WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
ABS	**ABS** American Bureau of Shipping	-	19-HG1868589-PDA
DNV	**DNV GL** Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
LR	**LR** Lloyds Register	IEC 61984	LR22429487TA

Counterpart

	Item no.770-1105 Socket; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-1105
	Item no.770-1105/022-000 Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue	[www.wago.com/770-1105 /022-000](www.wago.com/770-1105/022-000)
	Item no.770-1947 5-way distribution connector; 5-pole; Cod. I; 1 input; 5 outputs; blue	www.wago.com/770-1947
	Item no.770-2105 Snap-in socket; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-2105
	Item no.770-3105 Socket for PCBs; straight; 5-pole; Cod. I; blue	www.wago.com/770-3105
	Item no.770-3105/011-000 Socket for PCBs; angled; 5-pole; Cod. I; blue	[www.wago.com/770-3105 /011-000](www.wago.com/770-3105/011-000)
	Item no.770-617 T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue	www.wago.com/770-617

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

Item no.770-618

3-way distribution connector; 5-pole; Cod. I; 1 input; 3 outputs; blue

www.wago.com/770-618

Item no.770-620

T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue

www.wago.com/770-620

Item no.770-7105

Linect® T-connector; 5-pole; Cod. I; 1 input; 2 outputs; blue

www.wago.com/770-7105

Item no.770-992

h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 2 locking levers; blue

www.wago.com/770-992

Item no.770-993

h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; blue

www.wago.com/770-993

Item no.771-9985/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue

www.wago.com/771-9985/006-101
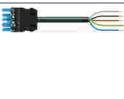
Item no.771-9985/106-101

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue

www.wago.com/771-9985/106-101

Item no.772-272

Tap-off module; for flat cable; 5 x 2.5 mm²; 5-pole; Cod. I; with cable connection on the output side; blue

www.wago.com/772-272
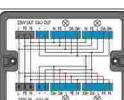
Item no.899-631/181-000

Distribution box; 230 V + DALI; 2 inputs; 6 outputs; Cod. A, I; MINI, MIDI; black

www.wago.com/899-631/181-000
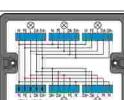
Item no.899-631/313-000

Distribution box; DALI; 1 input; 5 outputs; Cod. I; MIDI; black

www.wago.com/899-631/313-000
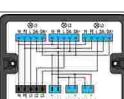
Item no.899-631/455-000

Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; black

www.wago.com/899-631/455-000
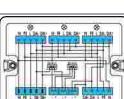
Item no.899-681/146-000

Distribution box; 230 V + DALI; 1 input; 7 outputs; Cod. I; MINI, MIDI; white

www.wago.com/899-681/146-000
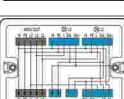
Item no.899-681/147-000

Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; white

www.wago.com/899-681/147-000

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

Required accessories

Strain relief

Strain relief housing

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

www.wago.com/770-505/021-000

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.: 770-505
Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; black

www.wago.com/770-505

Item no.: 770-515
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

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

www.wago.com/770-515/021-000

Locking levers

Locking system

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

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

Optional accessories

Tool

Operating tool

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

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

www.wago.com/210-719

Cover

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

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

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

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

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

Coding

Coding

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

Downloads
Documentation

Bid Text

770-1115	2019 Feb 19	xml	Download
X81 - Datei		3.0 kB	

770-1115	2015 Jun 8	doc	Download
doc - Datei		24.1 kB	

ausschreiben.de 770-1115		URL	Download

CAD/CAE-Data

CAE data

WSCAD Universe 770-1115	URL	Download
ZUKEN Portal 770-1115	URL	Download
EPLAN Data Portal 770-1115	URL	Download

CAD data

2D/3D Models 770-1115	URL	Download

Asset Administration Shell

Asset Administration Shell 770-1115	URL	Download

Environmental Product Compliance

Compliance Search

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

Do you have any questions about our products?

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Environmental Product Compliance 770-1115

Plug; 5-pole; 4,00 mm²; blue

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 a stripped conductor until it hits the backstop.
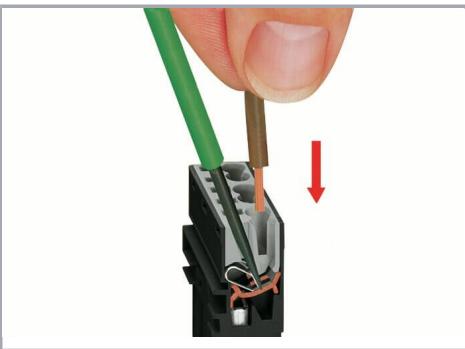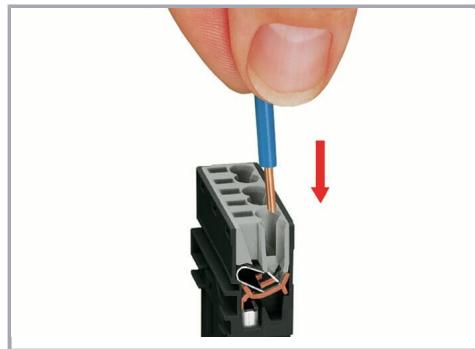

Insert the stripped solid conductor until it hits the backstop.

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!

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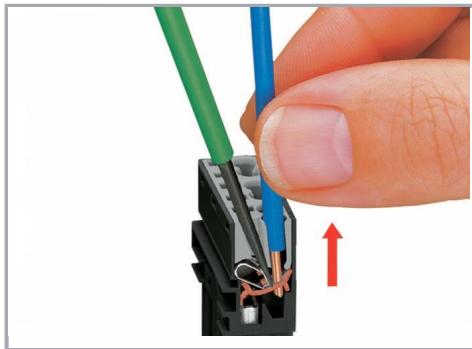
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation
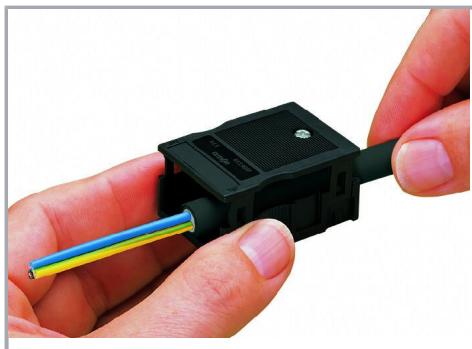
We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.
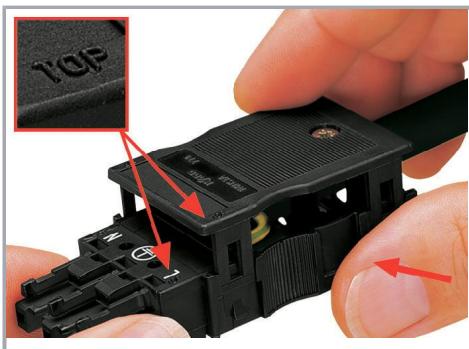
Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.
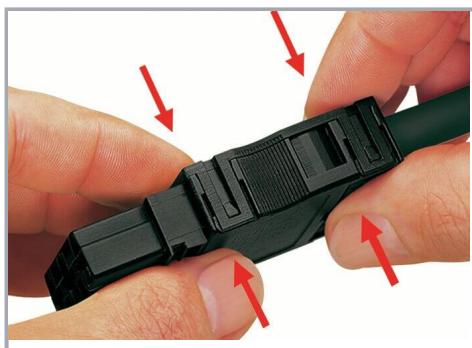
Prepare strain relief housing by snapping together upper and bottom part.

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

Product family

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

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WINSTA® MIDI
Show all products from the family

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

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