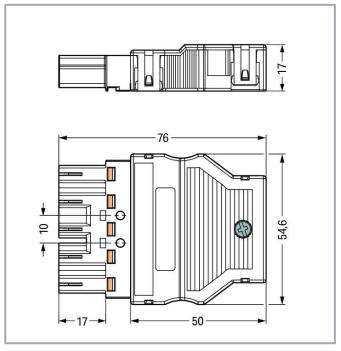
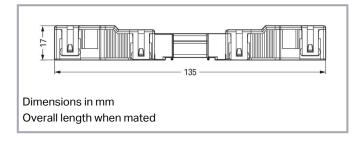
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-315









Item description

Male connector/plug WINSTA® MIDI with protection type IP20

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI male connector/plug with protection type IP20. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow fast, efficient, error-free installation in a large number of applications. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector offers protection against contact with live components 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!)). Thanks to the color coding and mechanical A coding of WINSTA® MIDI pluggable installation connectors, you can clearly distinguish different

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

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circuits. This pluggable installation connector can be employed for a load of up to 25 A. Thus, it can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy, flexible, and secure electrical installation. The strip length is 55 mm.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Now you can also lower installation costs without compromising quality and safety: with protection type IP20 reduces the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismating
- for automation controllers
- with A coding for a large number of applications
- ready for immediate use
- 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 m Ω of contact resistance

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approx. 0.25 m Ω contact transition plug/socket

Connection data

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

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 mm ² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	5
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	55 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Depth	76 mm / 2.992 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L3 L2 L1
Potential marking	L3 L2 L1

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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!)

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).
Strain relief	strain relief housing

Material data

Note (material data)	
----------------------	--

Information on material specifications can be found here

Color	black
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.752 MJ

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Continuous o	operating temperature			
Note on cont		-35 +85 °C		
	ti			
_	tinuous operating temperature	Insulating parts for temperatures ≤ 105 °C		
Commercial	l data			
Product Grou	up	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		
ECCN		NO DATA		
PU (SPU)		25 pcs		
Packaging ty		box DE		
Country of or				
GTIN		4044918254663		
Customs tari	iff number	85366990990		
RoHS Compl	liance Status	Compliant,No Exemption		
Approvals /	Certificates			
General appro	ovals			
			Certificate	
Logo	Approval	Additional Approval Text	name	
	CCA	IEC 61535	NL -84761	
	DEKRA Certification B.V.			
	CCA	EN 61535	71-	
KEMA	DEKRA Certification B.V.		123228	
	cURus	UL 1977	E45171	
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Underwriters Laboratories Inc.



VDE EN 61984 40002889



Declarations of conformity and manufacturer's declarations

VDE Prüf- und Zertifizierungsinstitut

Certificate Approval Additional Approval Text Logo name **EU-Declaration of Conformity**



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Approvals for marine applications

			Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	-	19-
	American Bureau of Shipping		HG1868589-
TANKONEO PRO			PDA
AND NED WAY	DNV GL	-	TAE00001Z6
DNV	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA
BID	Lloyds Register		



	Item no.770-105 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 105
Will HAR	Item no.770-205 Socket; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 205
May	Item no.770-305 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 305

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	حافقه
WHIT!	1300
40	

Item no.770-405

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

www.wago.com/770-405



Item no.770-611

Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black

www.wago.com/770-



Item no.770-609

3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black

www.wago.com/770-



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

805



Item no.770-805

Socket for PCBs; straight; 5-pole; Cod. A; black

www.wago.com/770-



Item no.770-705

Snap-in socket; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-705



Item no.770-705/009-000

Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-705/009-000



Item no.770-805/011-000

Socket for PCBs; angled; 5-pole; Cod. A; black

www.wago.com/770-805/011-000



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.771-9995/106-101

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

www.wago.com/771-9995/106-101



Item no.772-262

Tap-off module; for flat cable; $5 \times 2.5 \text{ mm}^2 + 2 \times 1.5 \text{ mm}^2$; 5-pole; Cod. A; with cable connection on the output side; black

www.wago.com/772-262



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

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www.wago.com/770-315





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.899-631/346-000

Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black

www.wago.com/899-631/346-000

Required accessories

	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

Wiring aid



Item no.: 770-100

Wiring aid; 2- to 5-pole; Plastic; orange

www.wago.com/770-100

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

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

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Coding

Coding		
	Item no.: 770-401	www.wago.com/770-401
	Coding pin; for plugs; Plastic; gray	www.wago.com#770 401
/larking acc	essories	
Marker		
	Item no.: 770-450/000-002	www.wago.com/770-450
i -	Marker card; Plastic; yellow	/000-002
	Item no.: 770-450/000-001	www.wago.com/770-450
10	Marker card; Plastic; green	/000-001
	Item no.: 770-450/000-005	www.wago.com/770-450
1/p	Marker card; Plastic; red	/000-005
	Item no.: 770-450	www.wago.com/770-450
1	Marker card; Plastic; white	www.wago.com///o-450
	Item no.: 770-450/000-006	www.wago.com/770-450
No.	Marker card; Plastic; blue	/000-006
	Item no.: 770-450/000-012	www.wago.com/770-450
Real	Marker card; Plastic; orange	/000-012

Downloads Documentation

Bid Text

770-315 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-315 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-315 URL Download

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CAE data

EPLAN Data Portal 770-315		Download
ZUKEN Portal 770-315	URL	Download
WSCAD Universe 770-315	URL	Download
Asset Administration Shell		
Asset Administration Shell 770-315	URL	Download

Environmental Product Compliance

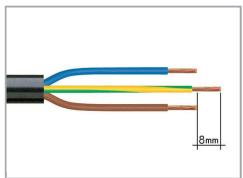
Compliance Search

Environmental Product Compliance 770-315
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black

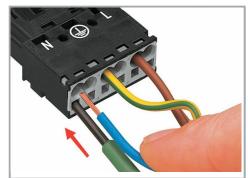
URL Download

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 a stripped conductor until it hits the backstop.

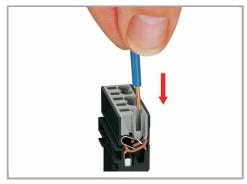
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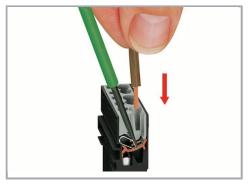
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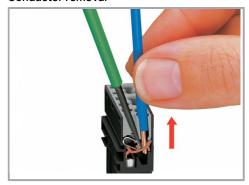


Insert the stripped solid conductor until it hits the backstop.



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.

Installation

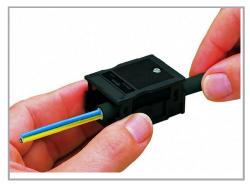
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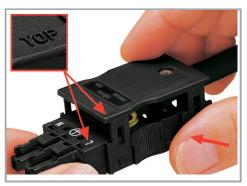
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing 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

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