Plug; 2-pole; Cod. A; 4,00 mm²; white

www.wago.com/770-232



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Item description

Male connector/plug WINSTA® MIDI A coding

The *WINSTA*® MIDI male connector/plug 2-pole supports rapid, correct installation. The pluggable installation connectors with spring pressure connection technology function completely 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 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 *WINSTA*® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. 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 robust loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Thanks to the built-in 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 ensures error-free installation of cables and components, quickly and reliably. Now you can also cut installation costs without compromising quality and safety: The WINSTA® MIDI pluggable installation connector with protection against mismating eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismating eliminates errors
- for automation controllers
- with A coding for use in many general mains applications
- custom-engineered solutions
- convenient installation and commissioning

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV

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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 approx. 0.25 m Ω contact transition plug/socket
Connection data	
Connection points	4
Total number of potentials	2
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	2

0°

Physical data

Pin spacing 10 mm / 0.394 inches

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Conductor entry direction to mating direction

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Width	20 mm / 0.787 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	NL
Potential marking	NL
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).

Material Data

Note (material data)

Information on material specifications can be found here

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Color	white
Cover color	gray
Material group	l
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	0.139 MJ
Weight	6.5 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

20 (Winsta)
27-44-06-05
27-44-06-05
EC002560
EC002560
100 pcs
box
DE
4050821028314
85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption
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Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	CCA	IFC 61535	NI -84761

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	DEKRA Certification B.V.		
	CCA	EN 61535	71-
	DEKRA Certification B.V.		123228
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		
	cURus	UL 1059	E 45172
	Underwriters Laboratories Inc.		
Declaration	ns of conformity and manufacturer's declarations		
			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		
Approvals	for marine applications		
			Certificate
Logo	Approval	Additional Approval Text	name
	ABS	-	19-
	American Bureau of Shipping		HG1868589-
			PDA
	DNV GL	-	TAE00001Z6
	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA
	Lloyds Register		

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Item no.770-122/041-000 Socket; with strain relief housing; 2-pole; Cod. A; 4,00 mm²; white	www.wago.com/770-122/041- 000
Item no.770-1656 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/770-1656
Item no.770-1665 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; white	www.wago.com/770-1665
Item no.770-1684 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	www.wago.com/770-1684
Item no.770-1686 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white	www.wago.com/770-1686
Item no.770-222 Socket; 2-pole; Cod. A; 4,00 mm²; white	www.wago.com/770-222
Item no.771-8992/106-102 pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm²; 1 m; 1,50 mm²; white	www.wago.com/771-8992 /106-102

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Item no.771-8992/006-102

pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/771-8992 /006-102

Required accessories

Strain	

Strain relief housing	
Item no.: 770-502/041-000	www.wago.com/770-502
Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 10.5 mm; 35 mm; black	/041-000
Item no.: 770-502/042-000	www.wago.com/770-502
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 9.0 mm; 35 mm; black	/042-000
Item no.: 770-512/041-000	www.wago.com/770-512
Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 10.5 mm; 35 mm; white	/041-000
Item no.: 770-512/042-000	www.wago.com/770-512
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 9.0 mm; 35 mm; white	/042-000
ocking levers	
Locking system	
Item no.: 770-121	WWW.WOOD 00m/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	www.wago.com/770-101
Locking lever; for flying leads; for manual operation; black	www.wago.com/770-101
Item no.: 770-111	www.wago.com/770-111
Locking lever; for flying leads; for tool operation; black	www.wago.com///0-111

Optional accessories

Mounting

Mounting accessories	
Item no.: 770-317 Snap-in frame; 2-pole; 1.0 3.0 mm; black	www.wago.com/770-317
Item no.: 770-337 Snap-in frame; 2-pole; 1.0 3.0 mm; white	www.wago.com/770-337
Item no.: 897-2100 Mounting plate; for Snap-in; Plastic; for detectors and sensors; Ø 200 mm; red	www.wago.com/897-2100

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Tool			
Operatir	ng tool		
	Item no.: 210-719	www.waga.com/210.710	
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719	
	Item no.: 770-382		
	Operating tool; 2-way; green	www.wago.com/770-382	
Cover			
Cover			
	Item no.: 770-360	www.wago.com/770-360	
	Lockout cap; for plugs; 5-pole; separable; yellow	www.wago.com/770-360	
	Item no.: 897-2003		
	Protective cap; Type2; for sockets and plugs; PVC; red	www.wago.com/897-200	

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Bid Text

770-232 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
770-232 doc - Datei	2015 年6月8日	doc 24.1 kB	Download

CAD/CAE-Data

2D/3D Models 770-232

CAD data

CAE data		
WSCAD Universe 770-232	URL	Download
ZUKEN Portal 770-232	URL	Download
EPLAN Data Portal 770-232	URL	Download

Environmental Product Compliance

Compliance Search

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URL

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Environmental Product Compliance 770-232 Plug; 2-pole; Cod. A; 4,00 mm²; white

Download

Installation Notes		
Conductor termination		
Conductor termination		
 Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole) Strip length = 9 mm 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.	

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Conductor removal

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Data sheet Item number: 770-232 www.wago.com/770-232		M/4GO
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		
WINSTA® MIDI		

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