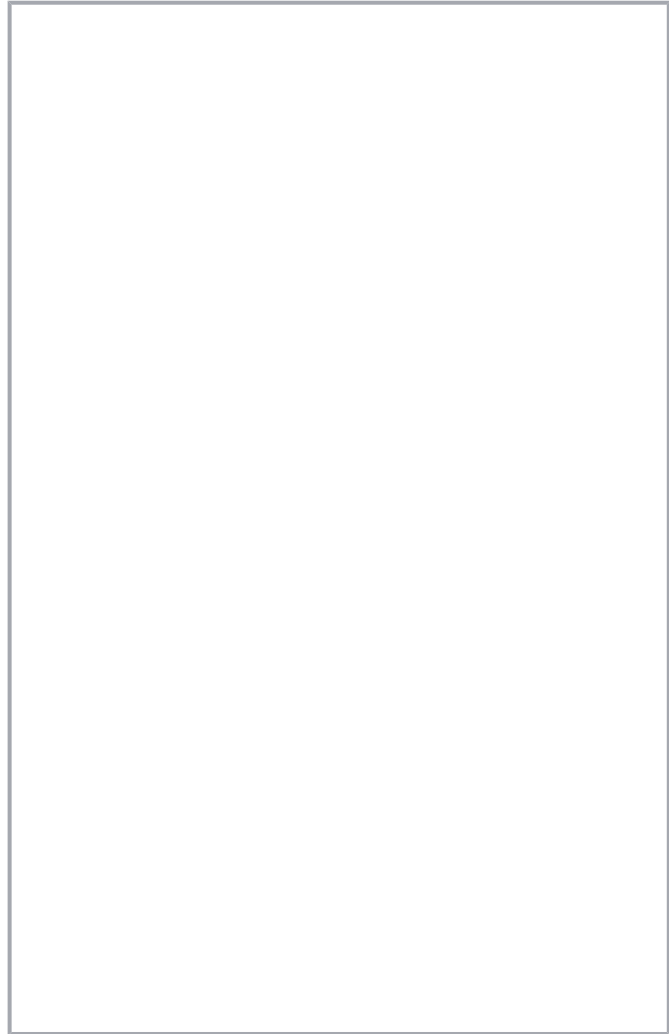
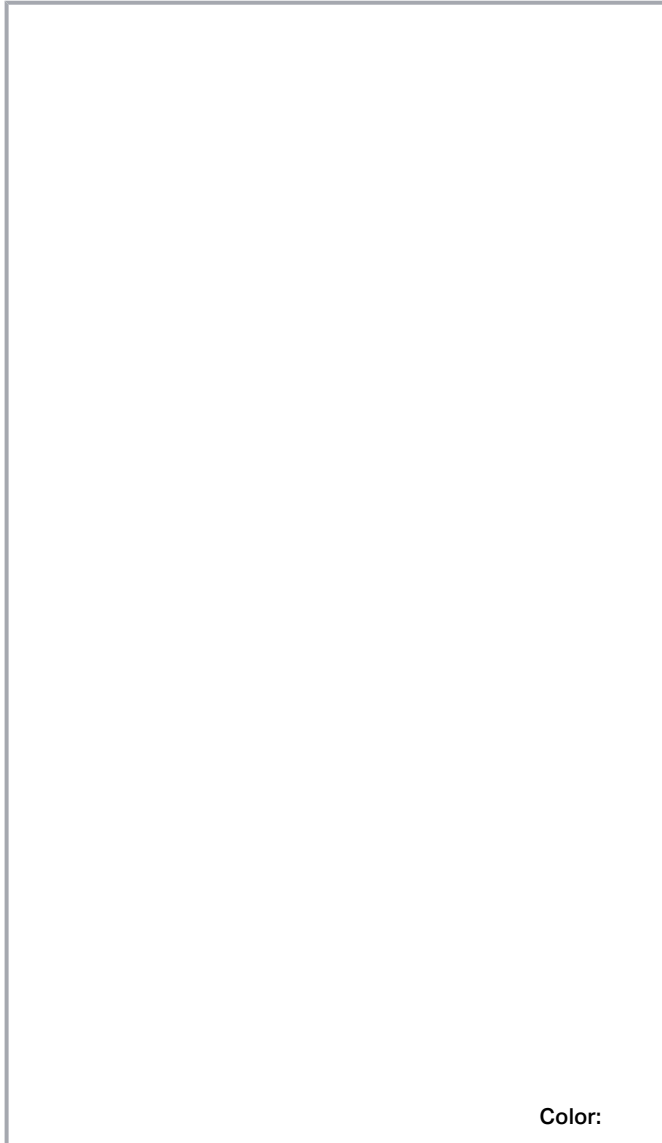


Data sheet | Item number: 770-233
Plug; 3-pole; Cod. A; 4,00 mm²; white

www.wago.com/770-233



Color:

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

WAGO GmbH & Co. KG
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Item description

Male connector/plug *WINSTA*® MIDI A coding

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI male connector/plug rated current 25 A. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow resource-efficient, error-free installation in a large number of applications. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. 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!)). Thanks to the color coding and mechanical A coding of *WINSTA*® MIDI pluggable installation connectors, you can clearly distinguish different circuits. 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 product line achieves total flexibility for the installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it achieves time-saving, error-free installation and offers flexibility for meeting all installation requirements.

WINSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows error-free installation of cables and components, quickly and reliably. Choose durability and quality – the *WINSTA*® MIDI pluggable installation connector with protection type IP20 from WAGO makes the installation of electrical components significantly easier.

- pluggable installation connectors with protection against mismatching
- for automation controllers
- with A coding for use in many general mains applications
- flexible installation to save space
- 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
Rated current	25 A
Legend (ratings)	(III / 3) ± Overvoltage category III / Pollution degree 3

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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	6
Total number of potentials	3
PE function	Preceding PE contact

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm ² / 12 AWG
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 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	3
Conductor entry direction to mating direction	0°

Physical data

Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches

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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	N ∇ L
Potential marking	N ∇ L
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 <i>WINSTA</i> [®] 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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Subject to changes. Please also observe the further product documentation!



Color	white
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	0.21 MJ
Weight	9.9 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

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)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918254182
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71- 123228

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



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 61984	40002889

Declarations of conformity and manufacturer's declarations

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

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.770-123 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-123
Item no.770-223 Socket; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-223
Item no.770-223/035-050 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-223/035-050
Item no.770-6223 Linect® T-connector; 3-pole; Cod. A; 1 input; 2 outputs; white	www.wago.com/770-6223
Item no.770-656 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/770-656
Item no.770-658 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; white	www.wago.com/770-658
Item no.770-657 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; white	www.wago.com/770-657
Item no.770-661	www.wago.com/770-661

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

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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; white	661
Item no.770-665 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	www.wago.com/770-665
Item no.770-683 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 2 locking levers; white	www.wago.com/770-683
Item no.770-685 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; white	www.wago.com/770-685
Item no.770-684 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	www.wago.com/770-684
Item no.770-686 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white	www.wago.com/770-686
Item no.770-687 Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	www.wago.com/770-687
Item no.770-690 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white	www.wago.com/770-690
Item no.770-688 Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	www.wago.com/770-688
Item no.770-723 Snap-in socket; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-723
Item no.770-723/009-000 Snap-in socket; with protruding mating face; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-723/009-000
Item no.770-823 Socket for PCBs; straight; 3-pole; Cod. A; white	www.wago.com/770-823
Item no.770-823/011-000 Socket for PCBs; angled; 3-pole; Cod. A; white	www.wago.com/770-823/011-000

Required accessories

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

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



Optional accessories

Tool

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

Item no.: 770-383
Operating tool; 3-way; green www.wago.com/770-383

Shield termination

Shield termination

Item no.: 770-523
Shield connecting plate; 3-pole; for sockets and plugs; silver-colored www.wago.com/770-523

Strain relief

Strain relief housing

Item no.: 770-503
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black www.wago.com/770-503

Item no.: 770-503/023-000
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black www.wago.com/770-503/023-000

Item no.: 770-503/021-000
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black www.wago.com/770-503/021-000

Item no.: 770-503/035-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black www.wago.com/770-503/035-000

Item no.: 770-503/038-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black www.wago.com/770-503/038-000

Item no.: 770-503/032-000
Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black www.wago.com/770-503/032-000

Item no.: 770-513/038-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white www.wago.com/770-513/038-000

Item no.: 770-513
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white www.wago.com/770-513

Item no.: 770-513/021-000
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white www.wago.com/770-513/021-000

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



Item no.: 770-513/032-000
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

www.wago.com/770-513/032-000

Item no.: 770-513/035-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

www.wago.com/770-513/035-000

Item no.: 770-513/023-000
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white

www.wago.com/770-513/023-000

Mounting

Mounting accessories

Item no.: 770-318
Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black

www.wago.com/770-318

Item no.: 770-338
Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white

www.wago.com/770-338

Coding

Coding

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

www.wago.com/770-401

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

Cover

Cover

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

Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Downloads

Documentation

Bid Text

770-233 X81 - Datei	2019 年2月19 日	xml 3.1 kB	Download
770-233 doc - Datei	2015 年6月8 日	doc 24.1 kB	Download

CAD/CAE-Data

CAE data

EPLAN Data Portal 770-233	URL	Download
WSCAD Universe 770-233	URL	Download
ZUKEN Portal 770-233	URL	Download

CAD data

2D/3D Models 770-233	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-233 Plug; 3-pole; Cod. A; 4,00 mm ² ; white	URL	Download
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Installation Notes

Conductor termination

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



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!



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

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



[Show all products from the family](#)

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

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