Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-103



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Data sheet | Item number: 770-103 www.wago.com/770-103

Overall length when mated

Item description

Dimensions in mm

Female connector/socket WINSTA® MIDI with strain relief

The WINSTA® MIDI female connector/socket rated current 25 A provides the foundation for assembly of fine-stranded and solid conductors. WAGO pluggable installation connectors are useful when criteria repeat or are planned on a defined pattern, for example for installing grid lighting or flushmount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. 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 is used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a

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broad range of individual products you can use for quick, easy, flexible, and secure installation. A range up to 55 mm can be used for the strip length.

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

WINSTA® is the pluggable connection system that is ideally 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 marking from WAGO makes the installation of electrical components significantly easier.

- protection against mismating eliminates errors
- for automation controllers
- for any mains application
- 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

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

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Connection data

Connection points	6
Total number of potentials	3
Number of test slots	3

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 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	3
Connectable sheathed cable diameter	8 11.5 mm
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	55 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	34.6 mm / 1.362 inches
Height	15 mm / 0.591 inches
Depth	76 mm / 2.992 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L ↓ N
Potential marking	L ↓ N
Mating force of a plug-in connection	approx. 20 70 N (depending on pole number)

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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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	IP2XC; 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)	Female connector/socket
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	(mate	rial	data)	

Information on material specifications can be found here

Color	black
Cover color	gray
Material group	
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	0.447 MJ
Strain relief color	black

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Weight	20 g

Environmental requirements

Processing temperature	-5 +40 ℃	
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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918252096
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	CCA	EN 61535	71-
	DEKRA Certification B.V.		123228
	CCA	IEC 61535	NL -84761
	DEKRA Certification B.V.		
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		
	cURus	UL 1059	E 45172
	Underwriters Laboratories Inc.		
	VDE	EN 61535	40029808
	VDE Prüf- und Zertifizierungsinstitut		
	VDE	EN 61984	40002889
	VDE Prüf- und Zertifizierungsinstitut		

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Declarations 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		

Counterpart

Item no.770-113 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-113
Item no.770-213 Plug; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-213
Item no.770-213/035-000 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-213 /035-000
Item no.770-213/002-000 Plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-213 /002-000
Item no.770-606 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-606
Item no.770-607 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770-607
Item no.770-608 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; outputs on both sides; black	www.wago.com/770-608
Item no.770-615 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/770-615
ltem no.770-633 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-633
Item no.770-635 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; black	www.wago.com/770-635
Item no.770-634 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black	www.wago.com/770-634
Item no.770-637	

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Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	www.wago.com/770-637
Item no.770-636	
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for	www.wago.com/770-636
flying leads; black	
Item no.770-713	
Snap-in plug; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-713
Item no.770-638	
Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1	www.wago.com/770-638
input; 5 outputs; black	
Item no.770-813	
Plug for PCBs; straight; 3-pole; Cod. A; black	www.wago.com/770-813
Item no.770-713/007-000	www.wago.com/770-713
Snap-in plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; black	/007-000
Item no.771-9993/006-101	
pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m;	www.wago.com/771-9993 /006-101
1,50 mm²; black	7006-101
Item no.770-813/011-000	www.wago.com/770-813
Plug for PCBs; angled; 3-pole; Cod. A; black	/011-000
Item no.771-9993/206-101	
pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m;	www.wago.com/771-9993
1,50 mm²; black	/206-101

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

Optional accessories

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Operation tool	
Operating tool	
Item no.: 210-719	www.wago.com/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	www.wago.com/770-383

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Operating too	l; 3-way; green
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Cover		
Cover		
	Item no.: 770-201	770 001
	Lockout cap; 12-pole, separable; for sockets; Plastic; black	www.wago.com/770-201
	Item no.: 770-221	WWW.Wago 00m/770 221
	Lockout cap; 12-pole, separable; for sockets; Plastic; white	www.wago.com/770-221
larking ac	cessories	
Marker		
	Item no.: 770-450/000-002	www.wago.com/770-450
	Marker card; Plastic; yellow	/000-002
	Item no.: 770-450/000-001	www.wago.com/770-450
	Marker card; Plastic; green	/000-001
	Item no.: 770-450/000-005	www.wago.com/770-450
	Marker card; Plastic; red	/000-005
	Item no.: 770-450	www.wago.com/770-450
	Marker card; Plastic; white	www.wago.com///0 400
	Item no.: 770-450/000-006	www.wago.com/770-450
	Marker card; Plastic; blue	/000-006
	Item no.: 770-450/000-012	www.wago.com/770-450
	Marker card; Plastic; orange	/000-012

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770-103 doc - Datei	2015 年6月8日	doc 24.1 kB	Download
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CAD/CAE-Data

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2D/3D Models 770-103	URL	Download
CAE data		
EPLAN Data Portal 770-103	URL	Download
WSCAD Universe 770-103	URL	Download
ZUKEN Portal 770-103	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-103 URL Download Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

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.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Data sheet | Item number: 770-103 www.wago.com/770-103



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				
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.			
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Prepare strain relief housing by snapping together upper and bottom part.	Tighten strain relief screw with screwdriver (2.5 mm blade width).
Coding	
Simply cut off the coding pin from the socket.	Insert coding pin into plug (break first) until it engages.
Shield termination	
Connector with shield termination	Apply the shield to the sheathed cable.
	Strip length, outer insulation = 55 mm
	Shield length = 10 mm
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Push the shield connecting plate into the connector until fully inserted.

First insert the wired connector into a strain relief housing, then snap cover and tighten screw.

Product family

WINSTA® MIDI

Show all products from the family

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