

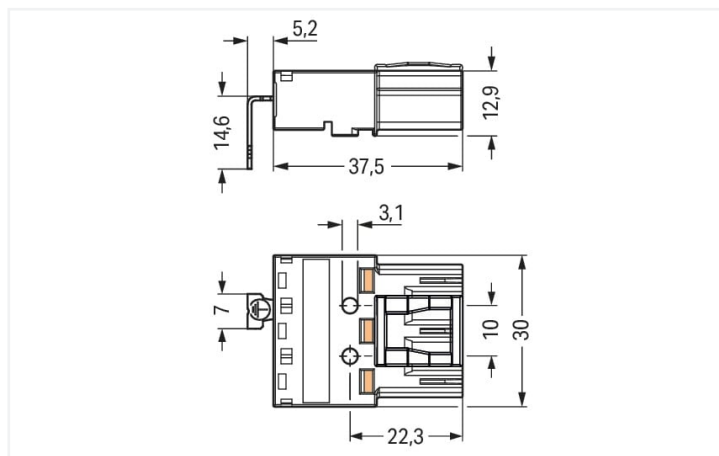
Data Sheet | Item Number: 770-213/002-000

Plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; black

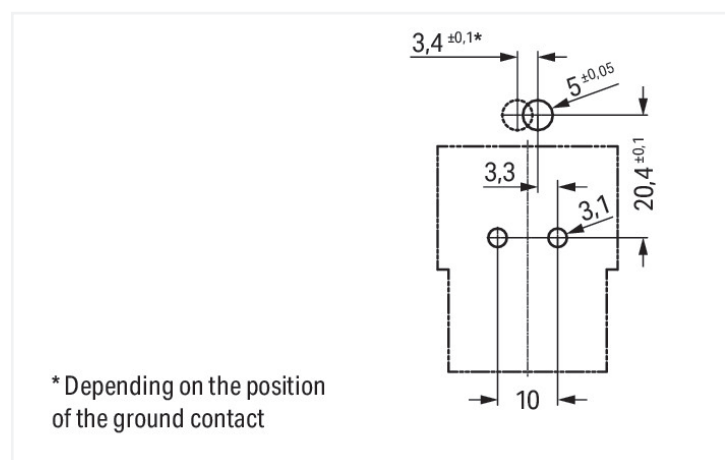
<https://www.wago.com/770-213/002-000>



Color: ■ black



Dimensions in mm



* Depending on the position of the ground contact

Dimensions in mm

Male connector/plug WINSTA® MIDI with protection against mismatching

For signal and power transmission: The WINSTA® MIDI male connector/plug 3-pole. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow flexible, error-free installation in numerous possible uses. For greater security 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. The WINSTA® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Thanks to the included test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs.

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

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Using this pre-assembled system reduces assembly times and errors during installation at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

- effective protection against mismatching
- simple circuits
- suitable for any application
- ready for immediate use
- rapid, structured electrical installation



Notes	
Safety information	Application note for the U.S. market (USR): 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.
Note	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).

Electrical data			
Ratings per		IEC/EN 60664-1	
Overvoltage category		III	II
Pollution degree		3	2
Nominal voltage	250 V	-	-
Rated surge voltage	4 kV	-	-
Rated current	25 A	-	-

Approvals per		UL 1977	
Rated voltage		600 V	
Rated current		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
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	3
Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches
Drilled hole diameter with tolerance	5 (-0.05 ... +0.05) mm

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
Design	with direct ground contact
Protection type	IP20

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	Yes
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	black
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	0.228 MJ
Weight	11.4 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	
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	4045454072421
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates					
General approvals			Approvals for marine applications		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
cURus Underwriters Laboratories Inc.	UL 1059	E 45172	LR Lloyds Register	IEC 61984	LR22429487TA

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 770-213/002-000	

Documentation			
Bid Text			
770-213/002-000	19.02.2019	xml 3.14 KB	
770-213/002-000	08.06.2015	doc 23.50 KB	



CAD/CAE-Data	
CAD data 2D/3D Models 770-213/002-000 ↓	CAE data WSCAD Universe 770-213/002-000 ↓

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 771-9993/106-101
pre-assembled connecting cable; Eca;
Socket/open-ended; 3-pole; Cod. A;
H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²;
black



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; 1,50 mm²; black

1.1.2 Female connector/socket



Item No.: 770-203
Socket; 3-pole; Cod. A; 4,00 mm²; black



Item No.: 770-103
Socket; with strain relief housing; 3-pole;
Cod. A; 4,00 mm²; black



Item No.: 770-203/035-000
Socket; with strain relief housing; 3-pole;
Cod. A; 4,00 mm²; black

1.2 Required Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 770-360
Lockout cap; for plugs; 5-pole; separable;
yellow

1.2.2 Locking system

1.2.2.1 Locking system



Item No.: 770-101
Locking lever; for flying leads; for manual
operation; black



Item No.: 770-121
Locking lever; for flying leads; for manual
operation; white



Item No.: 770-111
Locking lever; for flying leads; for tool
operation; black



Item No.: 770-131
Locking lever; for flying leads; for tool
operation; white



1.3 Optional Accessories
1.3.1 Tool
1.3.1.1 Operating tool



[Item No.: 210-719](#)
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft