

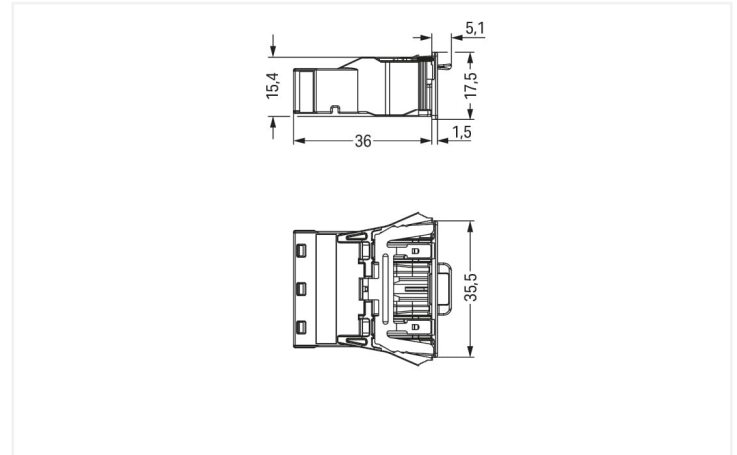
Data Sheet | Item Number: 770-713/007-000

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

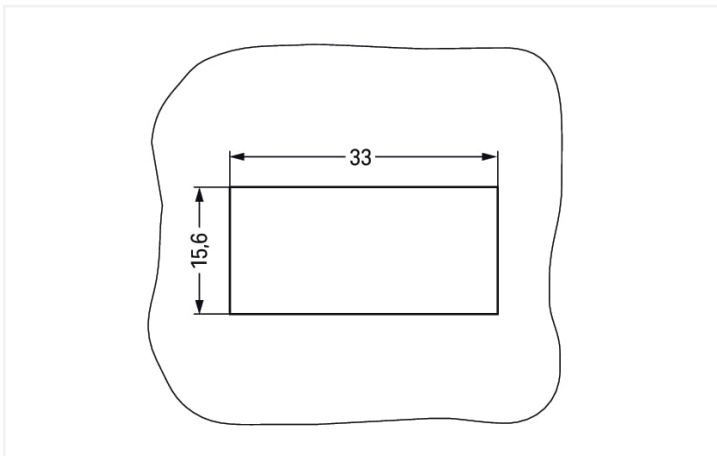
<https://www.wago.com/770-713/007-000>



Color: ■ black



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Male connector/plug WINSTA® MIDI 3-pole

The WINSTA® MIDI male connector/plug with locking latch is the pluggable solution for your use in control cabinets, on PCBs or for lighting connections. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow re-source-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: 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 usually used for general mains applications in power distribution. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They provide information about possible domains of use and applications. This product has a current rating of 25 A – so it is suitable for robust loads. Our WINSTA® MIDI product line achieves total flexibility for the installation of applications. Through its Push-in CAGE CLAMP® spring pressure connection technology, it ensures error-free, time-saving installation and offers flexibility and customization for meeting an enormous variety of installation requirements.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also lower installation costs without compromising safety and quality: with locking lever reduces the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- pre-assembled versions
- with A coding for a large number of uses
- ready for immediate use
- rapid, structured electrical installation



Notes	
Note	The snap-in connectors must be relieved of tensile and transverse forces. A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts. The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position).

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category	III	III	II	
Pollution degree	3	2	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 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	3
Conductor entry direction to mating direction	0 °

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	35.5 mm / 1.398 inches
Height	17.5 mm / 0.689 inches
Depth	41.1 mm / 1.618 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
Housing sheet thickness	0.5 ... 2 mm / 0.02 ... 0.079 inches
Direct ground contact to DIN-rail/drilled hole/housing	Yes
Design	with direct ground contact
Mounting type	Snap-in flange
Protection type	IP20; When mated: 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	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
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	0.281 MJ
Weight	14 g

Environmental requirements

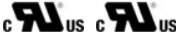
Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C



Commercial data	
eCl@ss 10.0	27-44-06-02
eCl@ss 9.0	27-44-06-02
ETIM 8.0	EC002566
ETIM 7.0	EC002566
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454422400
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 1977	E45171	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
cURus Underwriters Laboratories Inc.	UL 1059	E 45172	LR Lloyds Register	IEC 61984	LR22429487TA

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 770-713/007-000	

Documentation

Bid Text			
770-713/007-000	19.02.2019	xml 2.96 KB	
770-713/007-000	08.06.2015	doc 23.50 KB	

CAD/CAE-Data	
CAD data 2D/3D Models 770-713/007-000 ↓	CAE data EPLAN Data Portal 770-713/007-000 ↓
	WSCAD Universe 770-713/007-000 ↓
	ZUKEN Portal 770-713/007-000 ↓

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 Optional Accessories
1.2.1 Coding
1.2.1.1 Coding



[Item No.: 770-401](#)
Coding pin; for plugs; Plastic; gray

1.2.2 Cover
1.2.2.1 Cover



[Item No.: 770-643](#)
Lockout cap; 3-pole; for cutouts; Plastic;
black



[Item No.: 770-693](#)
Lockout cap; 3-pole; for cutouts; Plastic;
white



[Item No.: 770-360](#)
Lockout cap; for plugs; 5-pole; separable;
yellow

1.2.3 Tool

1.2.3.1 Operating tool



Item No.: 770-383
Operating tool; 3-way; green



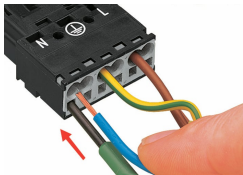
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

Conductor termination



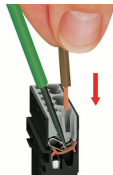
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

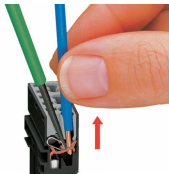


Insert the stripped solid conductor until it hits the backstop.



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.



Varnish-piercing direct ground contact