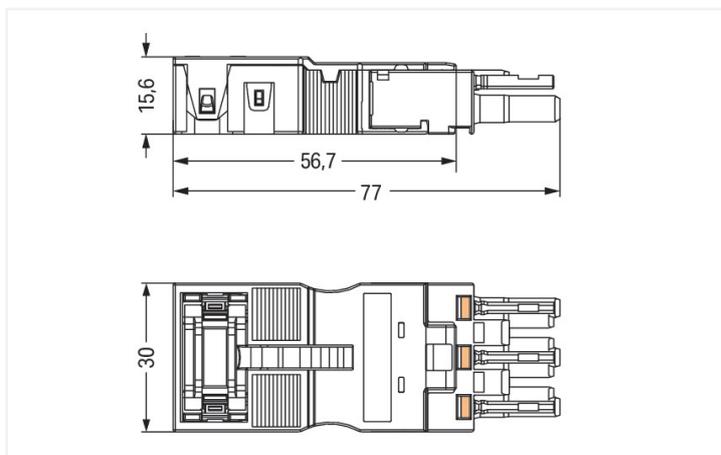
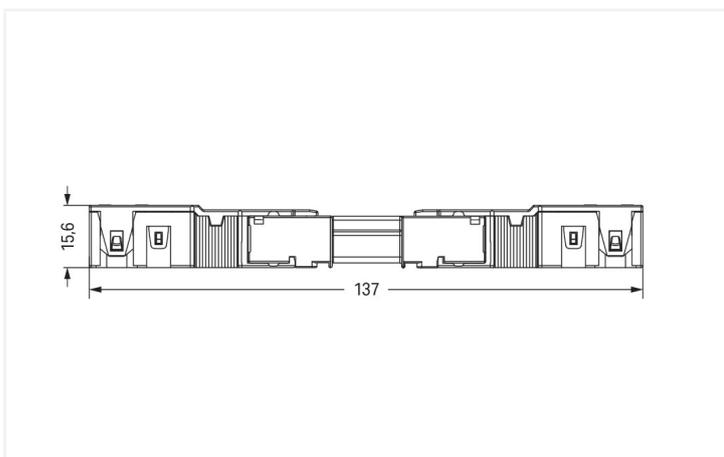




Color: ■ white



Dimensions in mm



Dimensions in mm
Overall length when mated

Female connector/socket WINSTA® MIDI with strain relief

The WINSTA® MIDI female connector/socket with protection type IP20 allows assembly of solid and fine-stranded conductors. WAGO pluggable installation connectors are used when criteria repeat or are planned on a specific grid, for example for installing grid lighting or flush-mount lighting. For

greater protection in electrical installations, the pluggable installation connector is equipped 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!)). 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 a current load of up to 25 A. As a result, it can also be used for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Thanks to the integrated test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs. The strip length is 48 mm.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismatching from WAGO.

- effective protection against mismatching
- simple circuits
- with A coding for a large number of applications
- custom-engineered solutions
- rapid, structured electrical installation

This item includes:

	
Item No.: 770-223 1	Item No.: 770-513/035-000 1
Socket; 3-pole; Cod. A; white	Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

Notes

<p>General safety information</p>	<p>NOTICE: Observe installation and safety instructions!</p> <ul style="list-style-type: none"> • Nur von Elektrofachkraft oder einer für die Tätigkeit elektrisch unterwiesenen Person (EUP nach DIN VDE 0105-100) anzuwenden! • Nicht unter Spannung/Last installieren! • Nur für bestimmungsgemäßen Gebrauch einsetzen! • Nationale Vorschriften/Normen/Richtlinien beachten! • Technische Daten der Produkte beachten! • Auf die richtige Polbelegung achten! • Keine beschädigten/verschmutzten Komponenten verwenden! • Leiterarten, -querschnitte, Abisolierlängen und Leitungsdurchmesser beachten! • Leiter bis zum Anschlag einführen! • Nur mit Verriegelungsklinke und Zugentlastung verwenden! • Originalzubehör verwenden! <p>To be sold only with installation instructions!</p>
-----------------------------------	--

Electrical data

Ratings per	IEC/EN 60664-1			Approvals per	UL 1977
Overvoltage category	III	III	II	Rated voltage	600 V
Pollution degree	3	2	2	Rated current	23 A
Nominal voltage	250 V	-	-		
Rated impulse withstand voltage	4 kV	-	-		
Rated current	25 A	-	-		

General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket
----------------------------	---

Connection Data

Clamping units	6	Connection 1	
Total number of potentials	3	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
		Connectable sheathed cable diameter	7 ... 11.5 mm
		Conductor entry direction to mating direction	0°
		Strip length (outer insulation)	48 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	15.6 mm / 0.614 inches
Depth	77 mm / 3.031 inches

Mechanical data

Use	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)
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!)
Suitable	for quick assembly

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
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

Plug-in connection

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 house, for quick assembly

Material data

Note (material data)	Information on material specifications can be found here
Color	white
Cover color	gray
Material group	I
Insulation material (main housing)	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	0.411 MJ
Connector color	white
Strain relief color	white
Weight	17.9 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

PU (SPU)	25 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143369336
Customs tariff number	85366990990

Product Classification

UNSPSC	39121402
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 10.0	EC002560
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
cURus Underwriters Laboratories Inc.	UL 1059	E 45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance
770-223/035-050



Documentation

Bid Text

770-223/035-050	19.02.2019	xml 3.08 KB	
770-223/035-050	14.12.2018	doc 23.50 KB	
ausschreiben.de 770-223/035-050			

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 771-9993/206-102

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white

Item No.: 771-9993/006-102

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Distribution box



Item No.: 899-631/395-000

Distribution box; Single-phase current (230 V); 1 input; 6 outputs; Cod. A; MIDI; black



Item No.: 899-681/104-000

Distribution box; Single-phase current (230 V); 1 input; 7 outputs; Cod. A; MIDI; white



Item No.: 899-631/327-000

Distribution box; Single-phase current (230 V); 2 inputs; 6 outputs; Cod. A; MIDI; black

1.1.3 Distribution connector

 Item No.: 770-657 3-way distribution connector; 3-pole; Cod. A; A; 1 input; 3 outputs; white	 Item No.: 770-658 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; white	 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	 Item No.: 770-687 Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white
 Item No.: 770-683 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 2 locking levers; white	 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	 Item No.: 770-684 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	 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
 Item No.: 770-6223 Linect® T-connector; 3-pole; Cod. A; 1 input; 2 outputs; white	 Item No.: 770-656 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	 Item No.: 770-665 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	

1.1.4 Male connector/plug

 Item No.: 770-833/011-000 Plug for PCBs; angled; 3-pole; Cod. A; white	 Item No.: 770-833 Plug for PCBs; straight; 3-pole; Cod. A; white	 Item No.: 770-233 Plug; 3-pole; Cod. A; white	 Item No.: 770-233/002-000 Plug; with direct ground contact; 3-pole; Cod. A; white
 Item No.: 770-133 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	 Item No.: 770-233/035-050 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	 Item No.: 770-733 Snap-in plug; 3-pole; Cod. A; white	 Item No.: 770-733/007-000 Snap-in plug; with direct ground contact; 3-pole; Cod. A; white

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 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 Cover

1.3.1.1 Cover

 Item No.: 770-201 Lockout cap; 12-pole, separable; for sockets; Plastic; black	 Item No.: 770-221 Lockout cap; 12-pole, separable; for sockets; Plastic; white
---	---

1.3.2 Marking

1.3.2.1 Marker



Item No.: 770-450/000-006
Marker card; Plastic; blue



Item No.: 770-450/000-001
Marker card; Plastic; green



Item No.: 770-450/000-012
Marker card; Plastic; orange



Item No.: 770-450/000-005
Marker card; Plastic; red



Item No.: 770-450
Marker card; Plastic; white



Item No.: 770-450/000-002
Marker card; Plastic; yellow

1.3.3 Shield termination

1.3.3.1 Shield termination



Item No.: 770-523
Shield connecting plate; 3-pole; for sockets and plugs; silver-colored

1.3.4 Tool

1.3.4.1 Operating tool



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



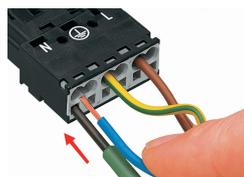
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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.

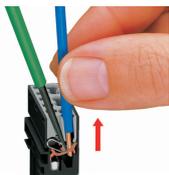


Insert the stripped solid conductor until it hits the backstop.



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.

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

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.