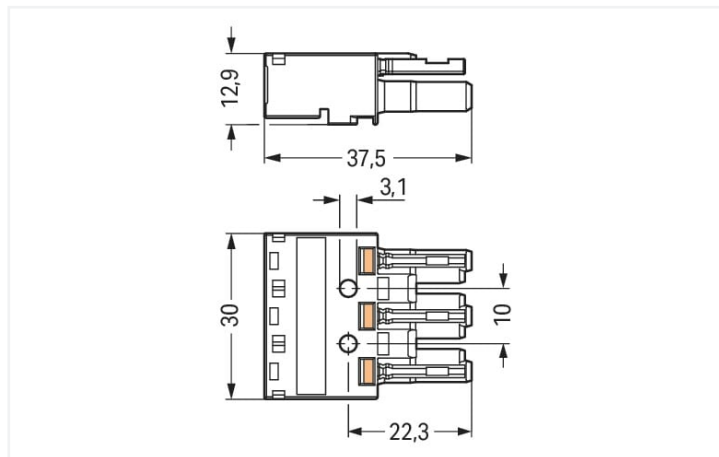


Color: ■ brown



Dimensions in mm

Female connector/socket **WINSTA®** MIDI 3-pole

Use effective pluggable connections instead of laborious screw connections: With the **WINSTA®** MIDI female connector/socket rated current 25 A. The pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow flexible, error-free installation in a large number of possible uses. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector is protected 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!)). This means that users' fingers will never come into contact with energised elements. The S coding in brown marks pluggable installation connectors of the **WINSTA®** MIDI product line, which are appropriate for use in AC applications. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. Our **WINSTA®** MIDI product line allows maximum flexibility for the installation. Through its Push-in **CAGE CLAMP®** spring pressure connection technology, it ensures time-saving, error-free installation and offers customization and flexibility for meeting various installation requirements.

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

**WINSTA®** is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Choose quality and durability – with protection type IP20 from WAGO makes the installation of electrical components noticeably easier.

- effective protection against mismatching
- simple circuits
- with S coding for use in components such as motors or frequency converters
- flexible installation to save space
- convenient installation and commissioning

**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
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## Connection data

Connection points	6	<b>Connection 1</b>	
Total number of potentials	3	Connection technology	Push-in CAGE CLAMP®
		Actuation type	Operating tool Push-in
		Nominal cross-section	4 mm <sup>2</sup> / 12 AWG
		Solid conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
		Solid conductor; push-in termination	1.5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG
		Stranded conductor	0.5 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
		Fine-stranded conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
		Fine-stranded conductor; with ferrule; push-in termination	1.5 mm <sup>2</sup> / 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

## Mechanical data

Application	Switching function
Coding	S
Variable coding	No
Marking	1 2 L
Potential marking	1 2 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)	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).

### Material data

Note (material data)	<a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a>
Color	brown
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	0.175 MJ
Weight	9.5 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	4044918252720
Customs tariff number	85366990990

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123228
CCA DEKRA Certification B.V.	IEC 61535	NL -84761
cURus Underwriters Laboratories Inc.	UL 1977	E45171
cURus Underwriters Laboratories Inc.	UL 1059	E 45172

#### Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 770-1363

Documentation

Bid Text			
770-1363	19.02.2019	xml 3.01 KB	
770-1363	08.06.2015	doc 23.50 KB	

CAD/CAE-Data

CAD data
2D/3D Models 770-1363

CAE data
EPLAN Data Portal 770-1363
WSCAD Universe 770-1363
ZUKEN Portal 770-1363

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



**Item No.: 771-9973/206-105**  
pre-assembled connecting cable; Eca;  
Plug/open-ended; 3-pole; Cod. S; H05VV-  
F 3 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; brown

**Item No.: 771-9973/006-105**  
pre-assembled interconnecting cable;  
Eca; Socket/plug; 3-pole; Cod. S; H05VV-F  
3 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; brown

### 1.1.2 Male connector/plug



[Item No.: 770-2373](#)

[Item No.: 770-1373](#)

Plug; 3-pole; 4,00 mm<sup>2</sup>; brown

## 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

### 1.2.2 Strain relief

#### 1.2.2.1 Strain relief housing



[Item No.: 770-503](#)

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

[Item No.: 770-513](#)

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; 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 Installation

#### 1.3.2.1 Mounting accessories



[Item No.: 770-318](#)

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black

[Item No.: 770-338](#)

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white

### 1.3.3 Marking

#### 1.3.3.1 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

### 1.3.4 Strain relief

#### 1.3.4.1 Strain relief housing



**Item No.: 770-503/021-000**  
Strain relief housing; 3-pole; for 1 cable;  
9.0 ... 13.0 mm; 71 mm; black



**Item No.: 770-513/021-000**  
Strain relief housing; 3-pole; for 1 cable;  
9.0 ... 13.0 mm; 71 mm; white



**Item No.: 770-503/023-000**  
Strain relief housing; 3-pole; for 2 cables;  
4.5 ... 8.0 mm; 55 mm; black



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



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



**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



**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



**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



**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



**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

### 1.3.5 Tool

#### 1.3.5.1 Operating tool



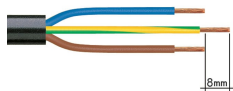
**Item No.: 770-383**  
Operating tool; 3-way; green



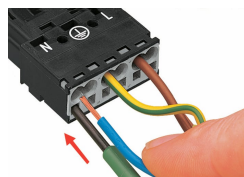
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a  
partially insulated shaft

### Installation Notes

#### Conductor termination



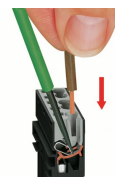
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

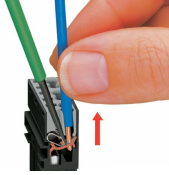


Insert the stripped solid conductor until it hits the backstop.



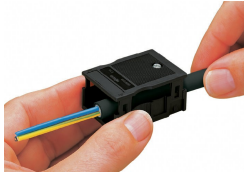
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

### Conductor removal

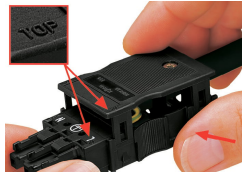


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

### 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).