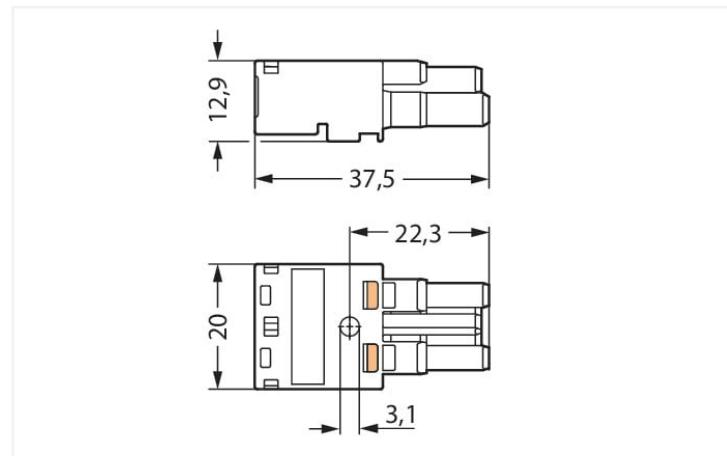


Color: ■ gray



Dimensions in mm

Female connector/socket WINSTA® MIDI rated current 25 A

For power and signal transmission: The WINSTA® MIDI female connector/socket with protection type IP20. WAGO pluggable installation connectors can be used when specifications repeat or are planned on a defined pattern, for example for installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. 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!)). That results in the fact that users' fingers will never come into contact with electrified elements. Pluggable installation connectors with B coding from the WINSTA® MIDI line are available in gray, light green, or pink, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Customer-specific pole marking is possible, too. 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 product line offers maximum flexibility for the installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers customization and flexibility 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 saves time, lowers costs, and reduces the need for servicing. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with protection type IP20 from WAGO.

- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- for automation controllers
- flexible installation to save space
- rapid, structured electrical installation

Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

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 surge 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
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Connection data

Connection points	4	Connection 1	
Total number of potentials	2	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	2
		Conductor entry direction to mating direction	0 °

Physical data

Pin spacing	10 mm / 0.394 inches
Width	20 mm / 0.787 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical data

Application	Control technology
Coding	B
Variable coding	No
Marking	1 2
Potential marking	1 2
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)	Information on material specifications can be found here
Color	gray
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	0.127 MJ
Weight	6.6 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

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)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821541912
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	IEC 61984	NL-32104
CCA DEKRA Certification B.V.	EN 61984	2173495.01
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	-	-
UK-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 770-242

Documentation

Bid Text

770-242	19.02.2019	xml 2.95 KB	
770-242	08.06.2015	doc 23.50 KB	

CAD/CAE-Data

CAD data

2D/3D Models 770-242



CAE data

EPLAN Data Portal
770-242WSCAD Universe
770-242

ZUKEN Portal 770-242



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly

[Item No.: 771-8992/205-103](#)pre-assembled connecting cable; Eca;
Plug/open-ended; 2-pole; Cod. B; Control
cable 2 x 1.0 mm²; 1 m; 1,00 mm²; gray[Item No.: 771-8992/005-103](#)pre-assembled interconnecting cable;
Eca; Socket/plug; 2-pole; Cod. B; Control
cable 2 x 1.0 mm²; 1 m; 1,00 mm²; gray

1.1.2 Distribution connector

[Item No.: 770-1704](#)3-way distribution connector; 2-pole; Cod. B;
1 input; 3 outputs; gray[Item No.: 770-1608](#)h-distribution connector; 2-pole; Cod. B;
1 input; 2 outputs; outputs on both sides;
2 locking levers; gray[Item No.: 770-1658](#)h-distribution connector; 2-pole; Cod. B;
1 input; 2 outputs; outputs on both sides;
3 locking levers; for flying leads; gray[Item No.: 770-1651](#)h-distribution connector; 2-pole; Cod. B; 1
input; 2 outputs; outputs on one side; 2
locking levers; gray[Item No.: 770-1751](#)h-distribution connector; 2-pole; Cod. B; 1
input; 2 outputs; outputs on one side; 3
locking levers; for flying leads; gray[Item No.: 770-1601](#)T-distribution connector; 2-pole; Cod. B;
1 input; 2 outputs; 2 locking levers; gray[Item No.: 770-1701](#)T-distribution connector; 2-pole; Cod. B; 1
input; 2 outputs; 3 locking levers; for flying
leads; gray

1.1.3 Male connector/plug

[Item No.: 770-252](#)Plug; 2-pole; Cod. B; 4,00 mm²; gray

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.: 770-502/042-000](#)
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; black

[Item No.: 770-512/042-000](#)
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; white

[Item No.: 770-502/041-000](#)
Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; black

[Item No.: 770-512/041-000](#)
Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 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

[Item No.: 897-2003](#)

Protective cap; Type2; for sockets and plugs; PVC; red

1.3.2 Installation

1.3.2.1 Mounting accessories



[Item No.: 897-2100](#)

Mounting plate; for Snap-in; Plastic; for detectors and sensors; Ø 200 mm; red

[Item No.: 770-317](#)

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; black

[Item No.: 770-337](#)

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; white

1.3.3 Tool

1.3.3.1 Operating tool



[Item No.: 770-382](#)

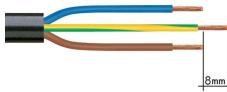
Operating tool; 2-way; green

[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.

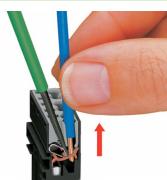


Insert the stripped solid conductor until it hits the backstop.



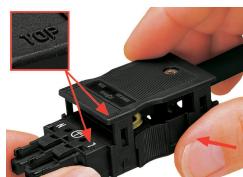
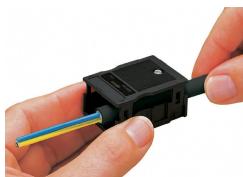
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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).

Coding



Simply cut off the coding pin from the socket.

Insert coding pin into plug (break first) until it engages.

Mating protection



B-coded connectors with different colors can be plugged together.

Important note:
Different colors and/or pole markings are used for circuit identification.
Only connectors of the same color and same pole marking must be plugged together.

B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

Easy circuit identification via different marking and colors