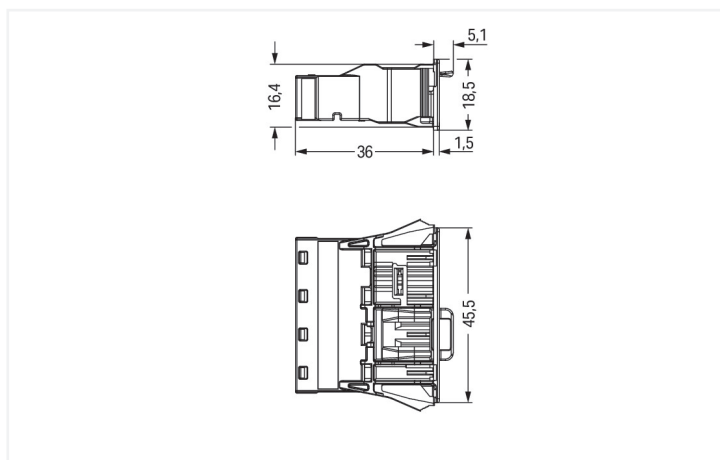
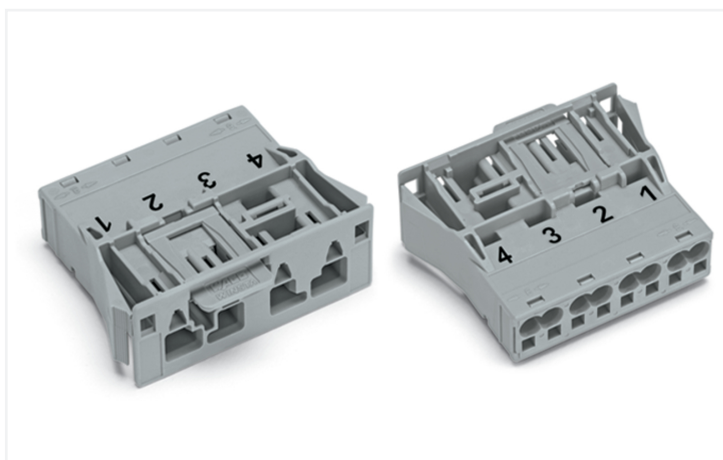
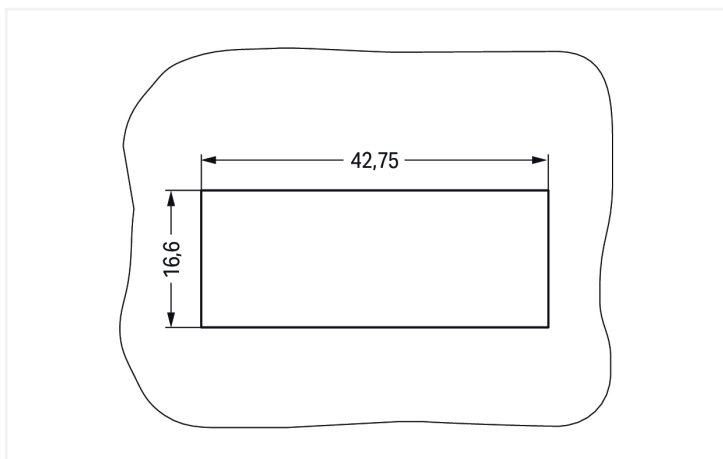


Color: ■ gray



Dimensions in mm



Dimensions in mm  
 Plate thickness: 0.5 ... 2 mm  
 Cutout tolerance: + 0.1 mm

Please note!



Male connector/plug WINSTA® MIDI with protection type IP20

For power and signal transmission: The WINSTA® MIDI male connector/plug with protection type IP20. The pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in numerous possible uses. 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 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!)). B coding enables the WINSTA® MIDI plug-gable installation connectors to be used for control in applications in the domains of automation, robotics, and mechanical engineering. This pluggable installation connector can be employed for a load of up to 25 A. Therefore, it can also be used for high power loads. The WINSTA® MIDI product line al-lows maximum flexibility for the installation of applications. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers flexibility and customization for meeting all installation requirements.

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

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation plug-gable, and thus more efficient, more reliable, and error-free. Using this pre-assembled system decreases assembly times and errors during installation at the construction site. Choose durability and quality – with protection against mismatching from WAGO makes the installation of electrical components visibly easier.

- protection against mismatching eliminates errors
- simple circuits
- for automation controllers
- ready for immediate use
- quick replacement of defective units during ongoing operation

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 peri-od before use (e.g., due to a pre-locking position).
Variants:	Other pole markings Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .

Electrical data				Ratings per IEC/EN – Notes	
Ratings per		IEC/EN 60664-1		Ratings per IEC/EN – Notes	
Overvoltage category	III	III	II	Rated current (note)	25 A for 3-pole load 20 A for 4-pole load
Pollution degree	3	2	2		
Nominal voltage	400 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	25 A	-	-		

Approvals per		UL 1977		General information	
Rated voltage		600 V		Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket
Rated current		23 A			

Connection data		Connection 1	
Clamping units	8	Connection technology	Push-in CAGE CLAMP®
Total number of potentials	4	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

### Connection 1

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	4
Conductor entry direction to mating direction	0 °

### Physical data

Pin spacing	10 mm / 0.394 inches
Width	45.5 mm / 1.791 inches
Height	18.5 mm / 0.728 inches
Depth	41.1 mm / 1.618 inches

### Mechanical data

Use	Control technology
Coding	B
Variable coding	Yes
Marking	4 3 2 1
Potential marking	4 3 2 1
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
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)		<a href="#">Information on material specifications can be found here</a>
Color	gray	
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	0.343 MJ	
Weight	16 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)	
PU (SPU)	100 pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4044918254007	
Customs tariff number	85366990990	

Product Classification		
UNSPSC	39121421	
eCl@ss 10.0	27-44-06-02	
eCl@ss 9.0	27-44-06-02	
ETIM 9.0	EC002566	
ETIM 8.0	EC002566	
ECCN	NO US CLASSIFICATION	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
  					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	IEC 61984	NL-32104	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 61984	2173495.01	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
cURus Underwriters Laboratories Inc.	UL 1977	E45171			
cURus Underwriters Laboratories Inc.	UL 1059	E 45172			



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 770-754



Documentation

Bid Text			
770-754	19.02.2019	xml 2.92 KB	<a href="#"></a>
770-754	08.06.2015	doc 24.00 KB	<a href="#"></a>



CAD/CAE-Data

CAD data
2D/3D Models 770-754



CAE data
EPLAN Data Portal 770-754
WSCAD Universe 770-754
ZUKEN Portal 770-754



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 771-9994/105-103  
pre-assembled connecting cable; Eca;  
Socket/open-ended; 4-pole; Cod. B; Con-  
trol cable 4 x 1.0 mm²; 1 m; 1,00 mm²;  
gray

Item No.: 771-9994/005-103  
pre-assembled interconnecting cable;  
Eca; Socket/plug; 4-pole; Cod. B; Control  
cable 4 x 1.0 mm²; 1 m; 1,00 mm²; gray

1.1.2 Female connector/socket



Item No.: 770-244  
Socket; 4-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

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.: 770-644  
Lockout cap; 4-pole; for cutouts; Plastic; black



Item No.: 770-694  
Lockout cap; 4-pole; for cutouts; Plastic; white



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

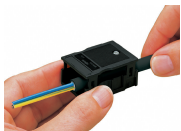
1.2.3 Tool

1.2.3.1 Operating tool



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

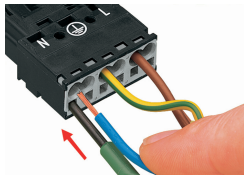
Installation Notes



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.



- 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



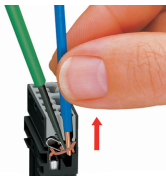
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.



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.



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

