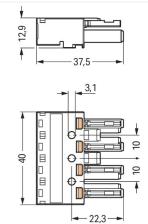






Color: 🔳 gray





Dimensions in mm

Female connector/socket WINSTA® MIDI with protection type IP20

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*[®] MIDI female connector/socket 4-pole. WAGO pluggable installation connectors are useful when criteria repeat or are planned on a defined pattern, for example for installing grid lighting or flush-mount lighting. 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 and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). B coding enables the *WINSTA*[®] MIDI pluggable installation connectors to be used for application control in automation, robotics, and mechanical engineering. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 25 A – therefore it is also suitable for powerful loads. *WINSTA*[®] MIDI with Push-in CAGE CLAMP[®] spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy and maximally flexible installation.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP20 from WAGO.

- pluggable installation connectors with protection against mismating
- simple circuits
- with B coding for controllers, for example lighting fixtures and sun blinds
- exact dimensions
- fast, secure installation

https://www.wago.com/770-244

Notes Variants:

Approvals per

Rated voltage

Rated current



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
Overvoltage category	Ш	III	Ш
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	25 A	-	-

UL 1977

600 V

23 A

Note (rated current)	25 A for 3-pole load 20 A for 4-pole load

0°

General information

Note on contact resistance

Conductor entry direction to mating di-

Ratings per IEC/EN – Notes

approx. 1 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/ socket

ection data				
nection points	8		Connection 1	
Total number of potentials 4	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 uninsula- ted 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	4

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	40 mm / 1.575 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

rection

Data Sheet | Item Number: 770-244 https://www.wago.com/770-244



Mechanical data	
Application	Control technology
Coding	В
Variable coding	Yes
Marking	1234
Potential marking	1234
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 devi- ces, all types of PCB and distribution connectors) are factory-equipped with locking le- vers 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	0.214 MJ
Weight	12.6 g

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

https://www.wago.com/770-244



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)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918252447
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

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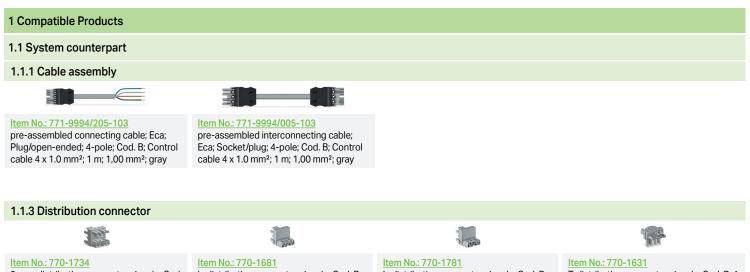


D	ownloads
E	nvironmental Product Compliance
C	compliance Search
	nvironmental Product compliance 770-244

Documentation

Bid Text			
770-244	19.02.2019	xml 2.96 KB	$\underline{\checkmark}$
770-244	08.06.2015	doc 24.00 KB	\downarrow

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 770-244	EPLAN Data Portal 770-244
	WSCAD Universe 770-244
	ZUKEN Portal 770-244



3-way distribution connector; 4-pole; Cod. B; 1 input; 3 outputs; gray

**

Item No.: 770-1731

T-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; gray

h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2

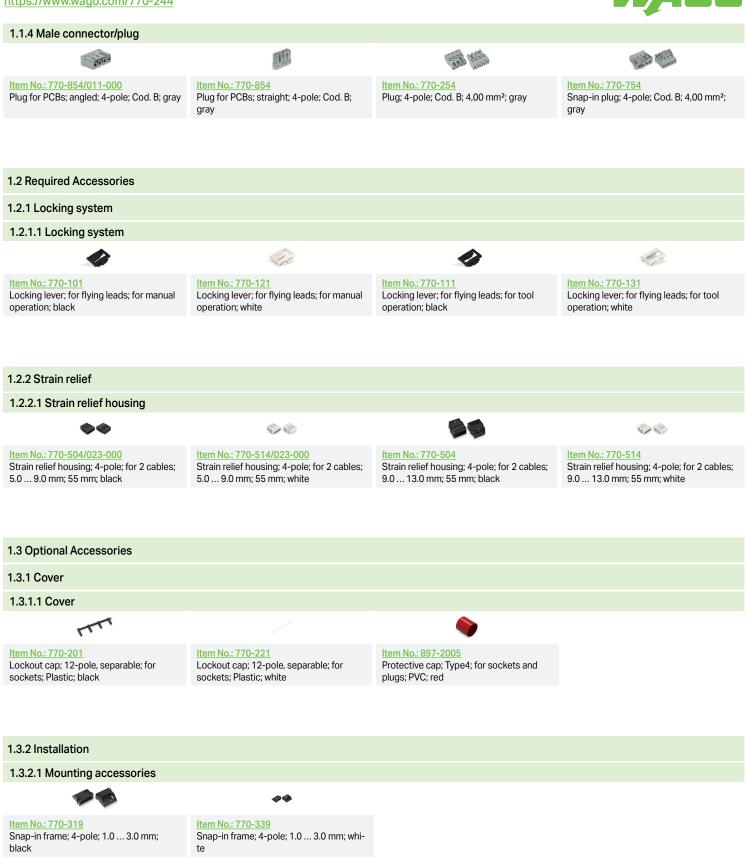
locking levers; gray

h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; gray

T-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; gray

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1.3.4 Strain relief

1.3.4.1 Strain relief housing



<u>Item No.: 770-504/020-000</u> Strain relief housing; 4-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

1.3.5 Tool

1.3.5.1 Operating tool



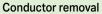
Item No.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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



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.

https://www.wago.com/770-244

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.



5

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.

Mismating 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. engages.



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

Subject to changes. Please also observe the further product documentation!