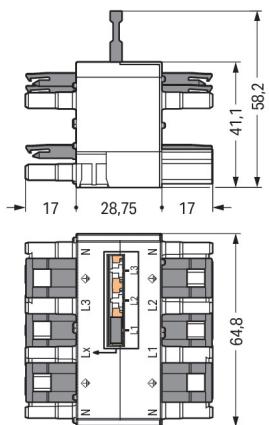


Color: ■ black



Dimensions in mm

Distribution connector *WINSTA® MIDI* with protection against mismating

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA® MIDI* distribution connector with protection type IP20. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to an enormous variety of requirements in seconds. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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!)). General mains applications for almost any domain of use can be implemented with *WINSTA® MIDI* pluggable installation connectors with A coding. This pluggable installation connector can be used for a load of up to 25 A. As a result, it can also be used for high power loads. The *WINSTA® MIDI* product line guarantees total flexibility for the installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it ensures 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 mismating and maintenance-free

The *WINSTA®* Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Choose quality and durability – with protection against mismating from WAGO makes the installation of electrical components significantly easier.

- effective protection against mismating
- simple circuits
- with A coding for a large number of applications
- custom-engineered solutions
- convenient installation and commissioning

Electrical data

Ratings per IEC/EN 60664-1			Ratings per IEC/EN 2	
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	400 V	-	-	
Rated surge voltage	6 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

Total number of potentials	5	Connection 1
		Pole number

Physical data

Pin spacing	10 mm / 0.394 inches
Width	64.8 mm / 2.551 inches
Height	58.2 mm / 2.291 inches
Depth	62.75 mm / 2.47 inches

Mechanical data

Application	General mains applications
Coding	A
Marking	N L1 L2 L3
Mating force of a plug-in connection	Approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	When 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
Type of distribution box	Three-phase to single-phase distribution connector
Protection type	IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection

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).
Number of locking levers	6

Material data

Note (material data)	Information on material specifications can be found here
Color	black
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	1.593 MJ
Weight	87.5 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	27-44-06-03
eCl@ss 9.0	27-44-06-03
ETIM 8.0	EC002567
ETIM 7.0	EC002567
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454530914
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 770-640



Documentation

Bid Text

770-640	19.02.2019	xml 3.13 KB	
770-640	10.12.2014	doc 23.00 KB	
ausschreiben.de 770-640			

CAD/CAE-Data

CAD data

2D/3D Models 770-640



CAE data

EPLAN Data Portal
770-640WSCAD Universe
770-640

ZUKEN Portal 770-640



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly

[Item No.: 771-9993/206-101](#)pre-assembled connecting cable; Eca;
Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black[Item No.: 771-9995/206-101](#)pre-assembled connecting cable; Eca;
Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black[Item No.: 771-9995/106-101](#)pre-assembled connecting cable; Eca;
Socket/open-ended; 5-pole; Cod. A;
H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black[Item No.: 771-9993/006-101](#)pre-assembled interconnecting cable;
Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black[Item No.: 771-9995/006-101](#)pre-assembled interconnecting cable;
Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

1.1.2 Female connector/socket

[Item No.: 770-205](#)Socket; 5-pole; Cod. A; 4,00 mm²; black[Item No.: 770-405](#)Socket; 5-pole; Cod. A; 4,00 mm²; black[Item No.: 770-105](#)Socket; with strain relief housing; 5-pole;
Cod. A; 4,00 mm²; black[Item No.: 770-305](#)Socket; with strain relief housing; 5-pole;
Cod. A; 4,00 mm²; black

1.1.3 Male connector/plug

[Item No.: 770-213](#)Plug; 3-pole; Cod. A; 4,00 mm²; black[Item No.: 770-215](#)Plug; 5-pole; Cod. A; 4,00 mm²; black[Item No.: 770-415](#)Plug; 5-pole; Cod. A; 4,00 mm²; black[Item No.: 770-113](#)Plug; with strain relief housing; 3-pole;
Cod. A; 4,00 mm²; black[Item No.: 770-213/035-000](#)Plug; with strain relief housing; 3-pole;
Cod. A; 4,00 mm²; black[Item No.: 770-115](#)Plug; with strain relief housing; 5-pole;
Cod. A; 4,00 mm²; black[Item No.: 770-315](#)Plug; with strain relief housing; 5-pole;
Cod. A; 4,00 mm²; black

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 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.: 770-360**

Lockout cap; for plugs; 5-pole; separable; yellow

1.2.2 Installation

1.2.2.1 Mounting accessories

**Item No.: 770-625**

Mounting plate; 5-pole; for distribution connectors; Plastic; black

**Item No.: 770-675**

Mounting plate; 5-pole; for distribution connectors; Plastic; white

Installation Notes



Movable jumper

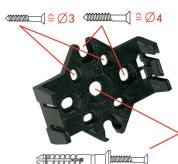


Jumper pushed down, flush with the housing (position L1)



Additional h-distribution connectors double L1 and L3.
This results in the following connection option:
L1/L1/L2/L2/L3/L3 with jumper in position L2
Notice: h-distribution connectors can only be plugged on L1 and L3.

Installation



Mounting plates can be secured using commercially available screws or nail-drive anchors.



The distribution connectors snap together when attached to the mounting plate.



To release the distribution connector, unlock the latch using a screwdriver.



All distribution connector connections are locked and protected against accidental disconnection directly after mating.
Locking of any connection is released using a screwdriver, even if all connections are used.