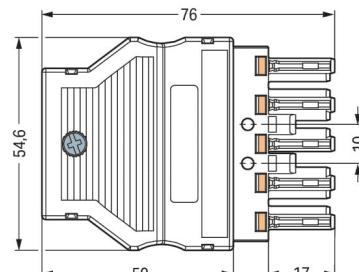
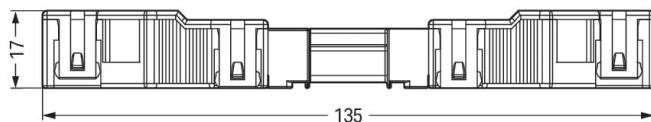


Color: white



Dimensions in mm



Dimensions in mm

Overall length when mated

Female connector/socket W/INSTA® MIDI 5-pole

For signal and power transmission: The W/INSTA® MIDI female connector/socket 5-pole. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in next to no time. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector offers protection against contact with live components 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!)). The W/INSTA® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. The rated current and voltage are important criteria for selecting a pluggable installation connector: They provide information about possible domains of use and applications. This product has a current rating of 25 A – as a result it is also suitable for high power loads. W/INSTA® 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, secure, tailored electrical installation. The strip length is 55 mm.

W/INSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free

The W/INSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose durability and quality – the W/INSTA® MIDI pluggable installation connector with protection against mismatching from WAGO makes the electrical installation of electrical components visibly easier.

- pluggable installation connectors with protection against mismatching
- simple circuits
- with A coding for a large number of applications
- flexible installation to save space
- convenient installation and commissioning

This item includes:

[Item No.: 770-515](#)

1

[Item No.: 770-225](#)

1

Strain relief housing; 5-pole; for 2 cables;
9.0 ... 13.0 mm; 55 mm; whiteSocket; 5-pole; Cod. A; 4,00 mm²; white

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) ≈ Overvoltage category III / Pollution degree 3

Ratings per UL 1977

Note for the US market	Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 A

General

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	10
Total number of potentials	5

Connection 1

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	5
Connectable sheathed cable diameter	9 ... 13 mm
Conductor entry direction to mating direction	0 °
Strip length (outer insulation)	55 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Depth	75.9 mm / 2.988 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	N ⊕ L1 L2 L3
Potential 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	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 W/INSTA® 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).
Strain relief	Strain relief housing

Material Data

Note (material data)	Information on material specifications can be found here
Color	white
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	0.659 MJ
Weight	28.9 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)	25 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918252201
Customs tariff number	85366990990

Approvals / Certificates

General approvals



Approvals for marine applications



Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123228	ABS American Bureau of Shipping	-	19-HG1868589-PDA
CCA DEKRA Certification B.V.	IEC 61535	NL-84761	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
cURus Underwriters Laboratories Inc.	UL 1977	E45171	LR Lloyds Register	IEC 61984	LR22429487TA
VDE VDE Prüf- und Zertifizierungsinstitut	EN 61984	40002889			
VDE VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808			

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 770-125

Documentation

Bid Text			
770-125	19.02.2019	xml 3.01 KB	
770-125	08.06.2015	doc 23.50 KB	
ausschreiben.de 770-125			

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 770-125	
	EPLAN Data Portal 770-125
	
	WSCAD Universe 770-125
	
	ZUKEN Portal 770-125
	

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly

[Item No.: 771-9995/206-102](#)

pre-assembled connecting cable; Eca;
Plug/open-ended; 5-pole; Cod. A; H05VV-
F 5G 1.5 mm²; 1 m; 1,50 mm²; white

[Item No.: 771-9995/006-102](#)

pre-assembled interconnecting cable;
Eca; Socket/plug; 5-pole; Cod. A; H05VV-
F 5G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Distribution box

[Item No.: 899-681/105-000](#)

Distribution box; Three-phase to single-
phase current (400 V/230 V); 1 input; 6
outputs; Cod. A; MIDI; white

[Item No.: 899-681/100-000](#)

Distribution box; Three-phase to single-
phase current (400 V/230 V); 1 input; 7
outputs; Cod. A; MIDI; white

[Item No.: 899-681/144-000](#)

Distribution box; Three-phase to single-
phase current (400 V/230 V); 2 inputs; 6
outputs; Cod. A; MIDI

1.1.3 Distribution connector

[Item No.: 770-6225](#)

Linect® T-connector; 5-pole; Cod. A; 1 in-
put; 2 outputs; white

[Item No.: 770-671](#)

T-distribution connector; 5-pole; Cod. A;
1 input; 2 outputs; 2 locking levers; white

[Item No.: 770-672](#)

T-distribution connector; 5-pole; Cod. A;
1 input; 2 outputs; 3 locking levers; for fly-
ing leads; white

[Item No.: 770-690](#)

Three-phase to single-phase distribution
connector; with phase selection; 5-po-
le/3-pole; Cod. A; 1 input; 5 outputs; white

1.1.4 Male connector/plug



[Item No.: 770-835/011-000](#)

Plug for PCBs; angled; 5-pole; Cod. A; white

[Item No.: 770-835](#)

Plug for PCBs; straight; 5-pole; Cod. A; white

[Item No.: 770-235](#)

Plug; 5-pole; Cod. A; 4,00 mm²; white

[Item No.: 770-435](#)

Plug; 5-pole; Cod. A; 4,00 mm²; white



[Item No.: 770-135](#)

Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white

[Item No.: 770-335](#)

Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white

[Item No.: 770-735](#)

Snap-in plug; 5-pole; Cod. A; 4,00 mm²; white

[Item No.: 770-735/007-000](#)

Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm²; white

1.2 Required 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

1.2.2 Locking system

1.2.2.1 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

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



[Item No.: 897-2005](#)

Protective cap; Type4; for sockets and plugs; PVC; red

1.3.2 Marking

1.3.2.1 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

1.3.3 Tool

1.3.3.1 Operating tool



Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

1.3.3.2 Wiring aid

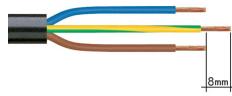


Item No.: 770-100

Wiring aid; 2- to 5-pole; Plastic; orange

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.

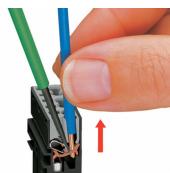


Insert the stripped solid conductor until it hits the backstop.



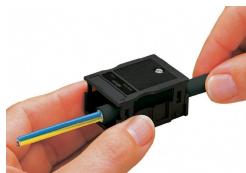
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal

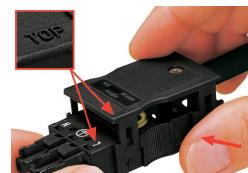


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

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).