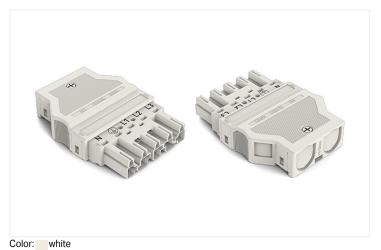
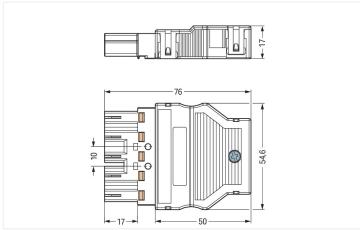
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white

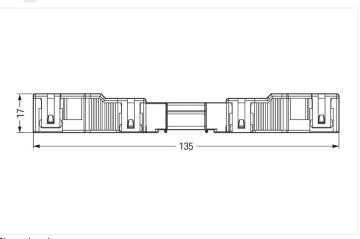
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Dimensions in mm



Dimensions in mm Overall length when mated

Male connector/plug WINSTA® MIDI with protection against mismating

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI male connector/plug with protection against mismating. 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 next to no time. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. 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!)). Thanks to the color coding and mechanical A coding of WINSTA® MIDI pluggable installation connectors, you can clearly distinguish different circuits. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Due to the integrated test slot, connections can be checked even when they are plugged in. This saves time, labor, and money. The strip length is 55 mm.

Push-in CAGE CLAMP® spring pressure connection technology - pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, more reliable, and error-free. Using this pre-assembled system reduces assembly times and installation errors at the construction site. Now you can also cut installation expenses without compromising safety and quality: The WINSTA® MIDI pluggable installation connector with protection against mismating eliminates the need for servicing and prevents unnecessary downtime.

- · protection against mismating eliminates errors
- · simple circuits
- · suitable for any application
- custom-engineered solutions
- · quick replacement of defective units during ongoing operation

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This item includes:





<u>Item No.: 770-515</u>

<u>Item No.: 770-235</u>

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

Plug; 5-pole; Cod. A; 4,00 mm²; white

Electrical data		
Ratings per IEC/EN		Ratings per UL 1977
Ratings per	IEC/EN 60664-1	Note for the US market
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	Rated voltage (UL 1977)
		Rated current UL 1977

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

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

Connection data		
Connection points	10	Connection 1
Total number of potentials	5	Connection tech
PE function	Preceding PE contact	Actuation type
		Naminal areas as
		Nominal cross-se
		Solid conductor
		Solid conductor;
		Stranded conduc

Connection 1	
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 uninsulated ferrule	0.25 2.5 mm² / 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

Data Sheet | Item Number: 770-135 https://www.wago.com/770-135



Physical data	
Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Denth	75.9 mm / 2.988 inches

Mechanical Data	
Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L3 L2 L1 ⊕ N
Potential marking	L3 L2 L1 ⊕ N
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)	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	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	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.716 MJ
Weight	29.5 g

https://www.wago.com/770-135



Environmental requirements

-5 ... +40 °C Processing temperature 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	4044918254502
Customs tariff number	85366990990

Approvals / Certificates

General approvals









Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123228
CCA DEKRA Certification B.V.	IEC 61535	NL -84761
cURus Underwriters Laboratories Inc.	UL 1977	E45171
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61984	40002889
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61535	40029808

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 770-135

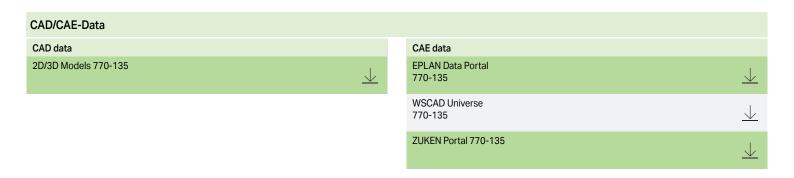


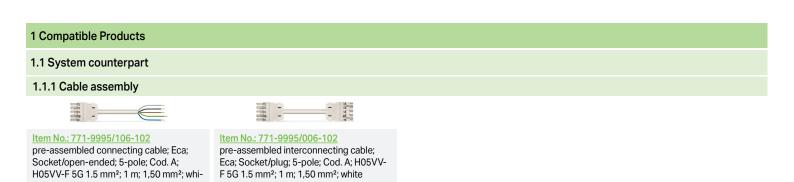
Documentation

https://www.wago.com/770-135









1.1.2 Distribution box



Item No.: 899-681/100-000

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

1.1.3 Distribution connector









Item No.: 770-6225

Linect® T-connector; 5-pole; Cod. A; 1 input; 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 flying leads; white

Item No.: 770-661

Three-phase to single-phase distribution connector; with phase selection; 5-po-le/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; white

Set Set

Item No.: 770-690

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

https://www.wago.com/770-135



1.1.4 Female connector/socket









Item No.: 770-725

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

Item No.: 770-725/009-000

Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm²; white

Item No.: 770-825/011-000

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

Carl March

Item No.: 770-825

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

Carlos Const

Item No.: 770-225

Socket; 5-pole; Cod. A; 4,00 mm²; white

Item No.: 770-425 Socket; 5-pole; Cod. A; 4,00 mm²; white

Carlos Constitution

Item No.: 770-125

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

Item No.: 770-325

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

1.2 Required Accessories

1.2.1 Locking system

Item No.: 770-101

operation; black

1.2.1.1 Locking system



Locking lever; for flying leads; for manual





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 Coding

1.3.1.1 Coding



Item No.: 770-401

Coding pin; for plugs; Plastic; gray

1.3.2 Cover

1.3.2.1 Cover





Item No.: 770-360

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

Item No.: 897-2005

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

1.3.3 Marking

1.3.3.1 Marker









Item No.: 770-450/000-006

Marker card; Plastic; blue



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

Item No.: 770-450/000-001

Marker card; Plastic; yellow

https://www.wago.com/770-135



1.3.4 Tool

1.3.4.1 Operating tool



Item No.: 210-719

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

1.3.4.2 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).

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

Current addresses can be found at:: $\underline{www.wago.com}$

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