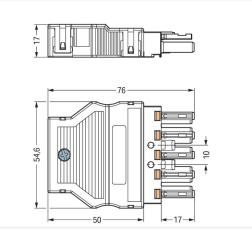
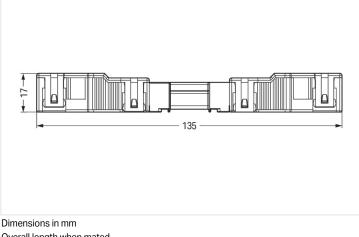


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Dimensions in mm



Overall length when mated

Female connector/socket WINSTA® MIDI 5-pole

For power and signal transmission: The *WINSTA*[®] MIDI female connector/socket A coding. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow resource-efficient, error-free installation in numerous applications. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including 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 connector can be used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. Our *WINSTA*[®] MIDI product line achieves total flexibility for the electrical installation. Through its Push-in CAGE CLAMP[®] spring pressure connection technology, it achieves time-saving, error-free installation and offers customization for meeting all installation requirements. The strip length is 55 mm.

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. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA®* MI-DI pluggable installation connectors with marking from WAGO.

- effective protection against mismating
- simple circuits
- with A coding for a great number of uses
- ready to install and use immediately
- fast, secure installation

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Electrical data

Item includes

ltem no.: 770-505

Ratings per IEC/EN		Ratings per UL	
Ratings per	IEC/EN 60664-1	Note for the US market	Some versions may also be used for cur-
Nominal voltage (III/3)	400 V	UL certificate in select application currents below 16 A and voltage	rent interruption in accordance with the UL certificate in select applications with
Rated impulse voltage (III/3)	6 kV		currents below 16 A and voltages up to
Rated current	25 A		600 V. For further information, please contact your local sales office.
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Polluti- on degree 3	Rated voltage (UL 1977)	600 V
	C. C	Rated current UL 1977	23 A

General

Note on contact resistance

approx. 1 $\mbox{m}\Omega$ of contact resistance approx. 0.25 m Ω contact transition plug/ socket

Connection data

Total number of connection points	10	Connection 1	
Total number of potentials	5	Connection technology	Push-in CAGE CLAMP®

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

Data sheet | Item number: 770-105 https://www.wago.com/770-105

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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:
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).
Strain relief	Strain relief housing

Material data	
Note (material data)	Information on material data can be found here
Color	black
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
Fire load	0.619 MJ
Weight	29 g

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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 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4044918252157
Customs tariff number VKOrg Germany	85366990990

Approvals and certificates

Country specific Approvals

KEUR	VDE	

Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 61535	2173495.02
CCA DEKRA Certification B.V.	IEC 61535	NL-32105
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61984	40002889
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61535	40029808

Ship /	Approvals



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	02/20050 (E6)

UL-Approvals



Inc.

Approval	Standard	Certificate name
cURus Underwriters Laboratories	UL 1977	E45171

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N/AGO

Dominouud	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 770-105	\downarrow

Documentation

Downloads

Bid Text			
770-105	19.02.2019	xml 3.01 KB	$\underline{\checkmark}$
770-105	08.06.2015	doc 23.50 KB	\downarrow
ausschreiben.de 770-105			$\underline{\checkmark}$

CAD/CAE-Data

CAD data 2D/3D Models 770-105

CAE data	
EPLAN Data Portal 770-105	\downarrow
WSCAD Universe 770-105	\downarrow
ZUKEN Portal 770-105	$\underline{\downarrow}$

1 Compatible products

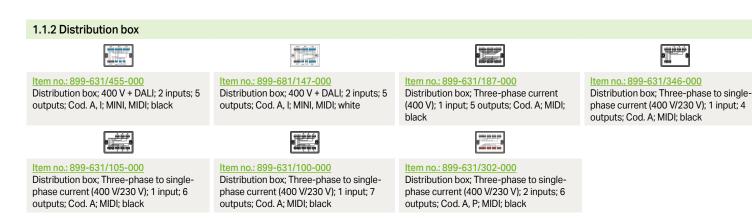
1.1 System counterpart

1.1.1 Cable assembly



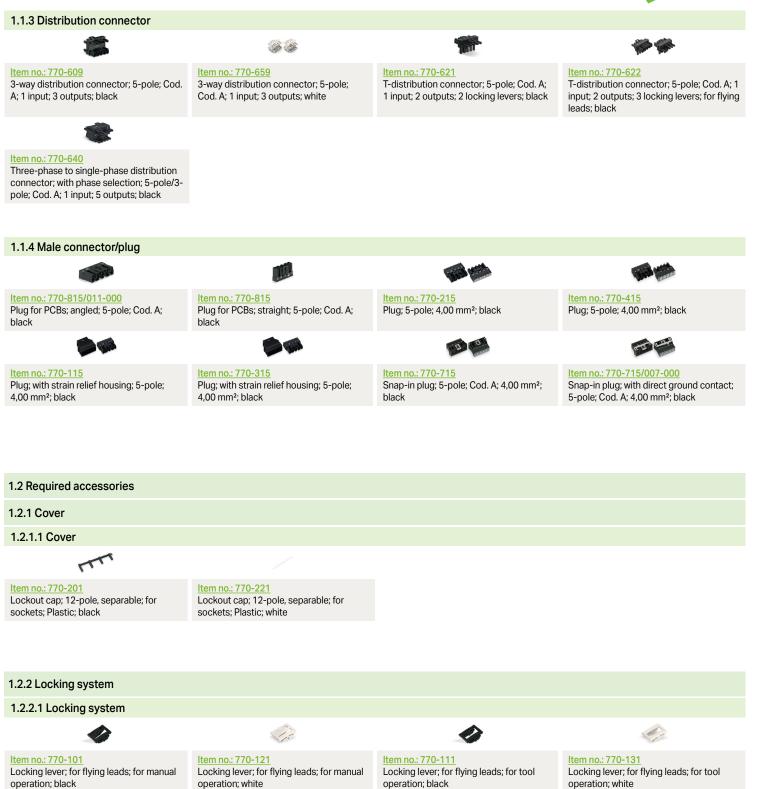
Item no.: 771-9995/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

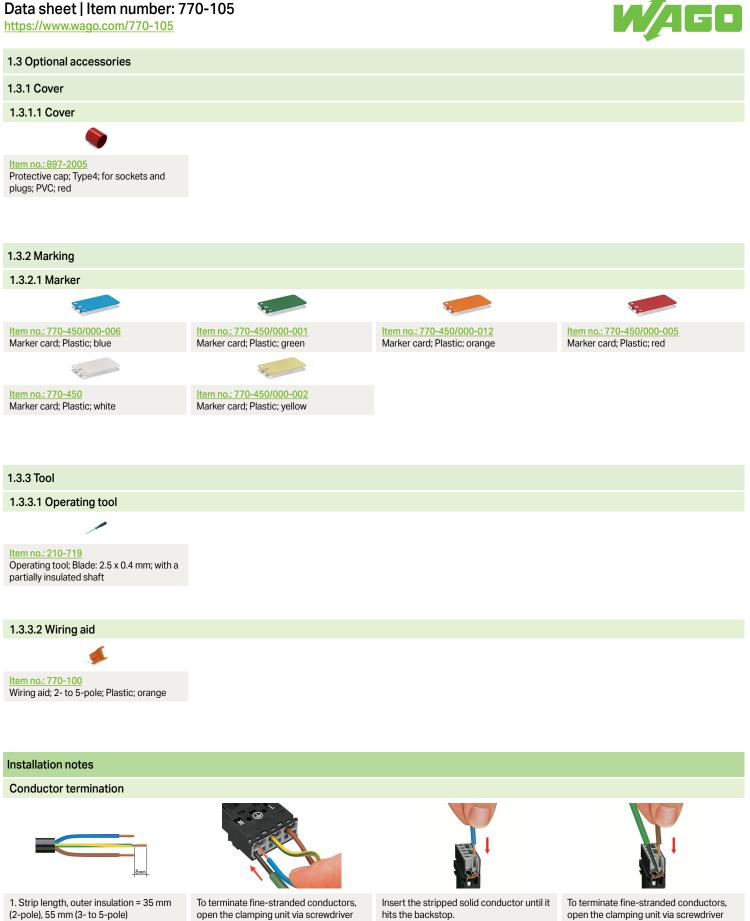
Item no.: 771-9995/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black



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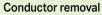


2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

(2.5 mm blade width) and insert a stripped conductor until it hits the backstop. (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Data sheet | Item number: 770-105 https://www.wago.com/770-105







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!