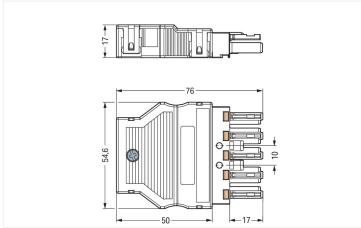
Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue

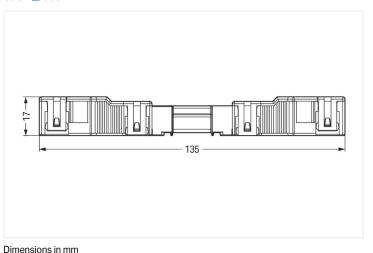
https://www.wago.com/770-1105/022-000







Dimensions in mm



Overall length when mated

Female connector/socket WINSTA® MIDI with strain relief

The WINSTA® MIDI female connector/socket 5-pole allows assembly of fine-stranded and solid conductors. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow fast, efficient, error-free installation in numerous applications. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector is protected 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!)). This means that users' fingers will never come into contact with electrified contact elements. WINSTA® MIDI pluggable installation connectors with I coding in blue are particularly suitable for easy lighting installation, for instance for the dimming function of DALI lights. This pluggable installation connector can be used for a current load of up to 25 A. Thus, it can also be used for high power loads. Our WINSTA® MIDI product line guarantees total flexibility for the installation of applications. With its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers customization and flexibility for meeting an enormous variety of installation requirements. The strip length is 55 mm.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MIDI

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and installation errors at the construction site. Choose durability and quality – with marking from WAGO makes the electrical installation of electrical components substantially easier.

- · protection against mismating eliminates errors
- pre-assembled versions
- for lighting management
- ready to install and use immediately
- · convenient installation and commissioning

https://www.wago.com/770-1105/022-000



This item includes:





Item No.: 770-505

Item No.: 770-1105

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

Socket; 5-pole; Cod. I; 4,00 mm²; blue

Electrical data			
Ratings per	IEC	C/EN 60664	-1
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

55 mm

General information

Note on contact resistance

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

nnection data			
amping units	10	Connection 1	
Total number of potentials 5	5	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 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 direction	0°	

Physical data		
Pin spacing	10 mm / 0.394 inches	
Width	54.6 mm / 2.15 inches	
Height	17 mm / 0.669 inches	
Depth	76 mm / 2.992 inches	

Strip length (outer insulation)

Data Sheet | Item Number: 770-1105/022-000 https://www.wago.com/770-1105/022-000



Mechanical data	
Use	DALI, Lighting Management
Coding	
Variable coding	No
Marking	N L DA- DA+
Potential marking	N L DA- DA+
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 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	blue
Cover color	gray
Material group	1
Insulation material (main housing)	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	0.73 MJ
Connector color	blue
Strain relief color	black
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

https://www.wago.com/770-1105/022-000



Commercial data	
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 8.0	EC002560
PU (SPU)	25 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821223016
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

E 45172

Approvals / Certificates

General approvals



Approval Standard Certificate Name

UL 1059

cURus Underwriters Laboratories

Inc.

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product

Compliance 770-1105/022-000



CAD/CAE-Data

CAD data

2D/3D Models 770-1105/022-000





1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly





Item No.: 771-9985/206-101

pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue Item No.: 771-9985/006-101

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

1.1.2 Distribution box



Item No.: 899-631/313-000

Distribution box; DALI; 1 input; 5 outputs; Cod. I; MIDI; black

1.1.3 Distribution connector



3-way distribution connector; 5-pole; Cod.



Item No.: 770-1947
5-way distribution connector; 5-pole;
Cod. I; 1 input; 5 outputs; blue



h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 2 locking levers; blue

Item No.: 770-993

h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; blue



Item No.: 770-7105

I; 1 input; 3 outputs; blue

Item No.: 770-618

Linect® T-connector; 5-pole; Cod. I; 1 input; 2 outputs; blue

Item No.: 770-617

T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue

Item No.: 770-620

Item No.: 770-1115

Plug; 5-pole; 4,00 mm²; blue

T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue

1.1.4 Male connector/plug



Plug for PCBs; angled; 5-pole; Cod. I; blue



<u>Item No.: 770-3115</u> Plug for PCBs; straight; 5-pole; Cod. I; blue



Item No.: 770-1115/022-000

Plug; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue



Item No.: 770-2115

Snap-in plug; 5-pole; Cod. l; 4,00 mm²; blue

Item No.: 770-2115/007-000

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

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

https://www.wago.com/770-1105/022-000



1.2.2 Strain relief

1.2.2.1 Strain relief housing



Item No.: 770-505/021-000

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black



Item No.: 770-515/021-000

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

0



Item No.: 770-505/023-000

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black



Item No.: 770-515/023-000

Strain relief housing; 5-pole; for 2 cables; $5.0 \dots 9.0$ mm; 55 mm; white



Item No.: 770-505

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

Item No.: 770-515

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

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 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.: 897-2005

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

1.3.2 Marking

1.3.2.1 Marker







Item No.: 770-450/000-012 Marker card; Plastic; orange





Item No.: 770-450/000-005

Marker card; Plastic; red

Item No.: 770-450/000-006 Marker card; Plastic; blue



Item No.: 770-450

Marker card; Plastic; white

Item No.: 770-450/000-002 Marker card; Plastic; yellow

Item No.: 770-450/000-001

Marker card; Plastic; green

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

https://www.wago.com/770-1105/022-000



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:: www.wago.com

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