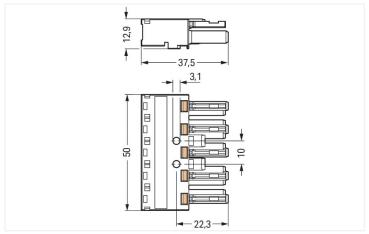




Color: Dlue



Dimensions in mm

# Female connector/socket WINSTA® MIDI I coding

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI female connector/socket with protection type IP20. WAGO pluggable installation connectors are used when specifications repeat or are distributed on a specified pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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 above all suitable for lighting management, for example for the dimming of DALI lights. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also 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.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Choose quality and durability – with marking from WAGO makes the electrical installation of electrical components substantially easier.

- · effective protection against mismating
- simple circuits
- for lighting management
- · custom-engineered solutions
- · convenient installation and commissioning



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

# **General information**

Note on contact resistance approx. 1 m $\Omega$  of contact resistance approx. 0.25 m $\Omega$  contact transition plug/ socket

Connection data			
Connection points	10	Connection 1	
Total number of potentials 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 mm <sup>2</sup> / 16 AWG	
		Strip length	9 mm / 0.35 inches
		Pole number	5
	Conductor entry direction to mating di-	0°	

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	50 mm / 1.969 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

rection

Mechanical data	
Application	DALI, Lighting Management
Coding	T.
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!)

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



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).

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	blue
Cover color	gray
Material group	1
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	0.355 MJ
Weight	15.4 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	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918252706
Customs tariff number	85366990990

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



# **Environmental Product Compliance**

RoHS Compliance Status

Compliant, No Exemption

# 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
cURus Underwriters Laboratories Inc.	UL 1059	E 45172
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61535	40029808

# Declarations of conformity and manufacturer's declarations

Approval Standard **Certificate Name** EU-Declaration of Conformity WAGO GmbH & Co. KG

#### 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**

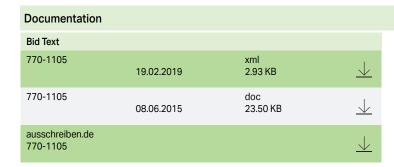
# Compliance Search

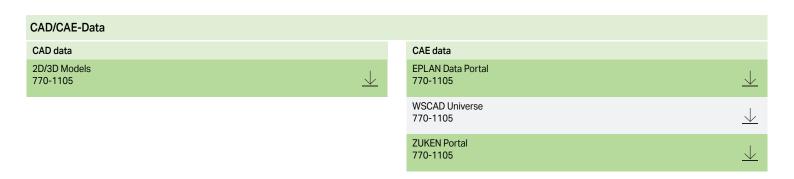
**Environmental Product** Compliance 770-1105



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







#### 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.: 899-681/146-000

Distribution box; 230 V + DALI; 1 input; 7 outputs; Cod. I; MINI, MIDI; white

#### Item No.: 899-631/313-000

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

# 1.1.3 Distribution connector









# Item No.: 770-618

3-way distribution connector; 5-pole; Cod. I; 1 input; 3 outputs; blue

#### Item No.: 770-1947

5-way distribution connector; 5-pole; Cod. I; 1 input; 5 outputs; blue

#### Item No.: 770-992

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

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

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



#### 1.1.4 Male connector/plug



Item No.: 770-3115/011-000

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



Item No.: 770-3115

Plug for PCBs; straight; 5-pole; Cod. I;



Item No.: 770-1115

Plug; 5-pole; 4,00 mm²; blue



Item No.: 770-1115/022-000

Plug; with strain relief housing; 5-pole; Cod. I; 4,00 mm<sup>2</sup>; blue





Item No.: 770-2115

Snap-in plug; 5-pole; Cod. I; 4,00 mm<sup>2</sup>;



Item No.: 770-2115/007-000

Snap-in plug; with direct ground contact; 5-pole; Cod. I; 4,00 mm<sup>2</sup>; blue



1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



Item No.: 770-101 Item No.: 770-121

Locking lever; for flying leads; for manual operation; black

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

1.2.2 Strain relief

1.2.2.1 Strain relief housing

Item No.: 770-505/021-000

11.5 ... 16.5 mm; 71 mm; black



1000

Item No.: 770-515/021-000 Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

Item No.: 770-505/023-000

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

6000

Item No.: 770-515/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

Strain relief housing; 5-pole; for 1 cable;

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

100

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

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



#### 1.3.2 Installation

#### 1.3.2.1 Mounting accessories



Item No.: 770-321

Snap-in frame; 5-pole; 0.5 ... 2.0 mm;



Item No.: 770-341

Snap-in frame; 5-pole; 0.5 ... 2.0 mm; whi-



Item No.: 770-320

Snap-in frame; 5-pole; 1.0 ... 3.0 mm;



Item No.: 770-340

Snap-in frame; 5-pole; 1.0 ... 3.0 mm; whi-

#### 1.3.3 Marking

#### 1.3.3.1 Marker





Item No.: 770-450/000-001

Marker card; Plastic; green



Item No.: 770-450/000-012



Marker card; Plastic; blue

Marker card; Plastic; white

Item No.: 770-450

Item No.: 770-450/000-006

Item No.: 770-450/000-002

Marker card; Plastic; yellow

Marker card; Plastic; orange

Item No.: 770-450/000-005 Marker card; Plastic; red

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.

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



#### 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!

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