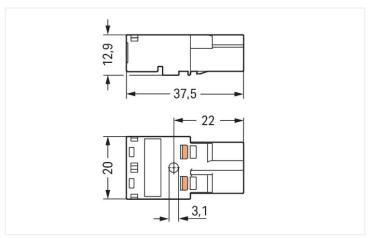
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Dimensions in mm

#### Male connector/plug WINSTA® MIDI rated current 25 A

The WINSTA® MIDI male connector/plug 2-pole is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to a huge variety of requirements in next to no time. 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!)). That results in the fact that users' fingers will never come into contact with electrified contact elements. I coding in blue is used to identify WIN-STA® MIDI pluggable installation connectors, which are used primarily in automation of buildings for controlling lighting. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 25 A – so it is also suitable for powerful loads. Our WINSTA® MIDI product line offers flexibility for the installation of applications. With its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees error-free, time-saving installation and offers customization and flexibility for meeting an enormous variety of installation requirements.

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

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and errors during installation at the construction site. Choose durability and quality – with protection type IP20 from WAGO makes the installation of electrical components visibly easier.

- · protection against mismating eliminates errors
- for automation controllers
- for intelligent, easy lighting installation
- · flexible installation to save space
- quick replacement of defective units during ongoing operation



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	-	-
Rated surge voltage	4 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	4	Connection 1	
Total number of potentials 2	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	2

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	20 mm / 0.787 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

rection

Conductor entry direction to mating di-

0°

Mechanical data	
Application	DALI, Lighting Management
Coding	I
Variable coding	No
Marking	DA- DA+
Potential marking	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!)

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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).

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	blue
Cover color	gray
Material group	I
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	0.125 MJ
Weight	6.5 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)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821028321
Customs tariff number	85366990990

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#### **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-	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



rungsinstitut





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

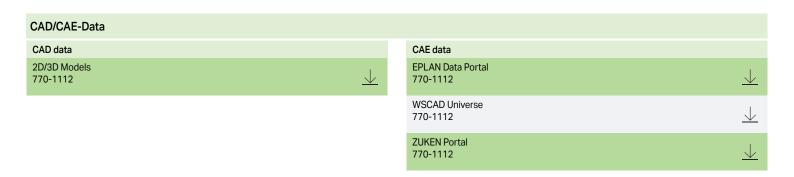
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# Documentation Bid Text 770-1112 xml 2.93 KB ↓ 770-1112 doc 23.50 KB ↓





2 x 1.5 mm²; 1 m; 1,50 mm²; blue

# 1.1.2 Distribution connector



H05VV-F 2 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; blue

Item No.: 770-7102

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

# 1.1.3 Female connector/socket



Item No.: 770-1102

Socket; 2-pole; Cod. I; 4,00 mm²; blue

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#### 1.2 Required Accessories

#### 1.2.1 Locking system

#### 1.2.1.1 Locking system



Locking lever; for flying leads; for manual

Item No.: 770-101 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

#### 1.2.2 Strain relief

operation; black

#### 1.2.2.1 Strain relief housing

Item No.: 770-502/042-000



Strain relief housing; 2-pole; with locking

clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm;

War Wes Item No.: 770-512/042-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm;

Item No.: 770-502/041-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm;

Item No.: 770-512/041-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm;

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#### 1.3 Optional Accessories

#### 1.3.1 Cover

#### 1.3.1.1 Cover



Item No.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow

Item No.: 897-2003 Protective cap; Type2; for sockets and plugs; PVC; red

#### 1.3.2 Installation

Item No.: 897-2100

#### 1.3.2.1 Mounting accessories



Mounting plate; for Snap-in; Plastic; for

detectors and sensors; Ø 200 mm; red

Item No.: 770-317

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; black

Item No.: 770-337

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; whi-

#### 1.3.3 Tool

# 1.3.3.1 Operating tool



Item No.: 770-382 Operating tool; 2-way; green Item No.: 210-719

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

https://www.wago.com/770-1112



#### **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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