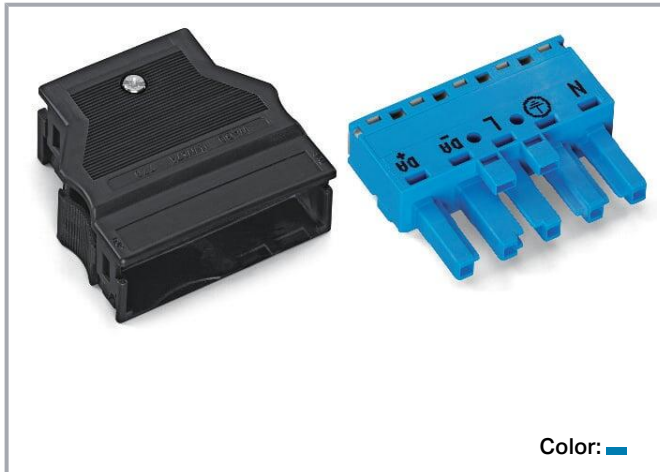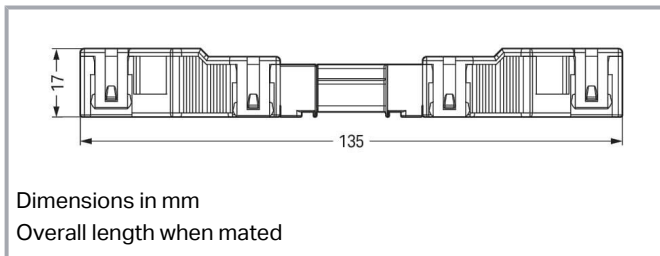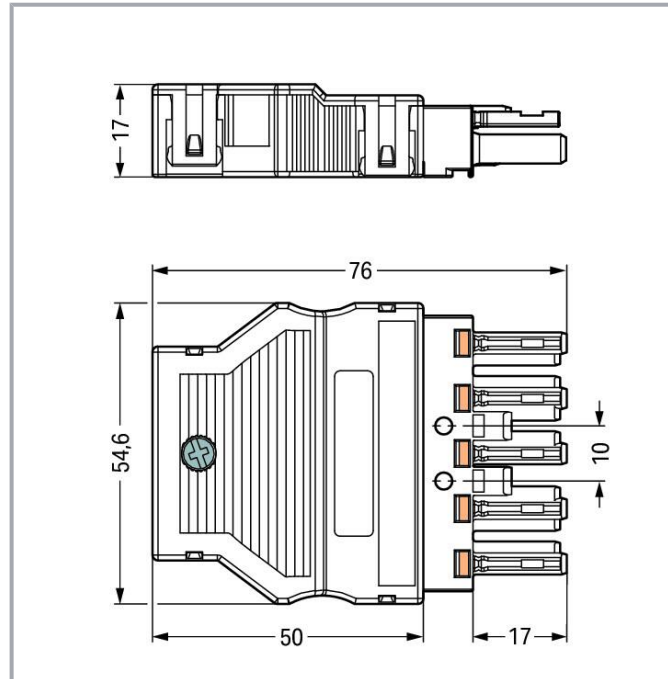# Data sheet | Item number: 770-1105/022-000

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

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

WAGO

Color: ▬

76

17

54,6

10

50

17

17

135

Dimensions in mm
Overall length when mated

Item description

Female connector/socket *WINSTA*® MIDI I coding

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI female connector/socket 5-pole. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to many different requirements in seconds. 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 against ingress by solid objects 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!)). I coding in blue is used to label *WINSTA*® MIDI pluggable installation connectors, which

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are used primarily in building automation for activating lighting. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in can be found in a variety of projects you can use for quick, easy, flexible, and secure electrical installation. A range up to 55 mm can be used for the strip length.

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

WINSTA® is the pluggable connection system that is ideally 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 significantly easier.

-
- pluggable installation connectors with protection against mismating
- simple circuits
- with I coding for lighting control (DALI standard)
- ready for immediate use
- fast, secure installation

Data
Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
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

Ratings per UL 1977

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

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

General information

Note on contact resistance	approx. 1 mΩ of contact resistance
	approx. 0.25 mΩ contact transition plug/socket

Connection data

Connection points	10
Total number of potentials	5

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 mm² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	5
Conductor entry direction to mating direction	0 °
Strip length (outer insulation)	55 mm

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

Mechanical Data

Application	DALI, Lighting Management
Coding	I
Variable coding	No
Marking	N ⏚ L DA- DA+

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

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	I
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

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

Fire load	0.768 MJ
Connector color	blue
Weight	28.9 g

Environmental requirements

Processing temperature	-5 … +40 ℃
Continuous operating temperature	-35 … +85 ℃
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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821223016
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus	UL 1059	E 45172
	Underwriters Laboratories Inc.		

Counterpart

Item no.770-1115
Plug; 5-pole; 4,00 mm²; blue

www.wago.com/770-1115

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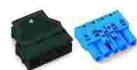
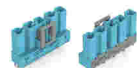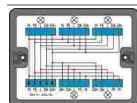|		
Item no.770-1115/022-000 Plug; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-1115 /022-000
Item no.770-1947 5-way distribution connector; 5-pole; Cod. I; 1 input; 5 outputs; blue	www.wago.com/770-1947
Item no.770-2115/007-000 Snap-in plug; with direct ground contact; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-2115 /007-000
Item no.770-2115 Snap-in plug; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-2115
Item no.770-3115 Plug for PCBs; straight; 5-pole; Cod. I; blue	www.wago.com/770-3115
Item no.770-617 T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue	www.wago.com/770-617
Item no.770-3115/011-000 Plug for PCBs; angled; 5-pole; Cod. I; blue	www.wago.com/770-3115 /011-000
Item no.770-618 3-way distribution connector; 5-pole; Cod. I; 1 input; 3 outputs; blue	www.wago.com/770-618
Item no.770-620 T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue	www.wago.com/770-620
Item no.770-7105 Linect® T-connector; 5-pole; Cod. I; 1 input; 2 outputs; blue	www.wago.com/770-7105
Item no.770-992 h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 2 locking levers; blue	www.wago.com/770-992
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	www.wago.com/770-993
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	www.wago.com/771-9985 /006-101
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	www.wago.com/771-9985 /206-101
Item no.899-631/313-000 Distribution box; DALI; 1 input; 5 outputs; Cod. I; MIDI; black	www.wago.com/899-631/313- 000

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

Required accessories

Strain relief

Strain relief housing

	Item no.: 770-505/021-000	www.wago.com/770-505
	Strain relief housing; 5-pole; for 1 cable; 11.5 … 16.5 mm; 71 mm; black	/021-000
	Item no.: 770-505/023-000	www.wago.com/770-505
	Strain relief housing; 5-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; black	/023-000
	Item no.: 770-505	
	Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; black	www.wago.com/770-505
	Item no.: 770-515	
	Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; white	www.wago.com/770-515
	Item no.: 770-515/023-000	www.wago.com/770-515
	Strain relief housing; 5-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; white	/023-000
	Item no.: 770-515/021-000	www.wago.com/770-515
	Strain relief housing; 5-pole; for 1 cable; 11.5 … 16.5 mm; 71 mm; white	/021-000

Locking levers

Locking system

	Item no.: 770-121	
	Locking lever; for flying leads; for manual operation; white	www.wago.com/770-121
	Item no.: 770-131	
	Locking lever; for flying leads; for tool operation; white	www.wago.com/770-131
	Item no.: 770-101	
	Locking lever; for flying leads; for manual operation; black	www.wago.com/770-101
	Item no.: 770-111	
	Locking lever; for flying leads; for tool operation; black	www.wago.com/770-111

Optional accessories

Marking accessories

Marker

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

	Item no.: 770-450/000-002 Marker card; Plastic; yellow	www.wago.com/770-450 /000-002
	Item no.: 770-450/000-001 Marker card; Plastic; green	www.wago.com/770-450 /000-001
	Item no.: 770-450/000-005 Marker card; Plastic; red	www.wago.com/770-450 /000-005
	Item no.: 770-450 Marker card; Plastic; white	www.wago.com/770-450
	Item no.: 770-450/000-006 Marker card; Plastic; blue	www.wago.com/770-450 /000-006
	Item no.: 770-450/000-012 Marker card; Plastic; orange	www.wago.com/770-450 /000-012
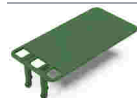
Tool

Operating tool

	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719

Cover

Cover

	Item no.: 770-201 Lockout cap; 12-pole, separable; for sockets; Plastic; black	www.wago.com/770-201
	Item no.: 770-221 Lockout cap; 12-pole, separable; for sockets; Plastic; white	www.wago.com/770-221
	Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red	www.wago.com/897-2005

Downloads
CAD/CAE-Data

CAD data

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

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

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Asset Administration Shell

Asset Administration Shell 770-1105/022-000	URL	Download

Environmental Product Compliance

Compliance Search

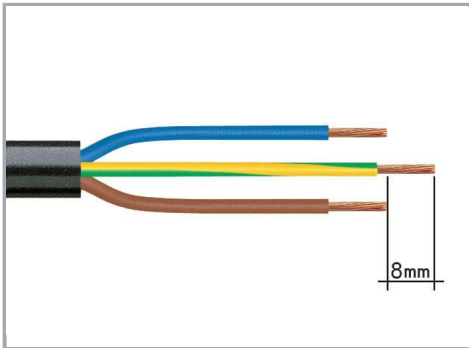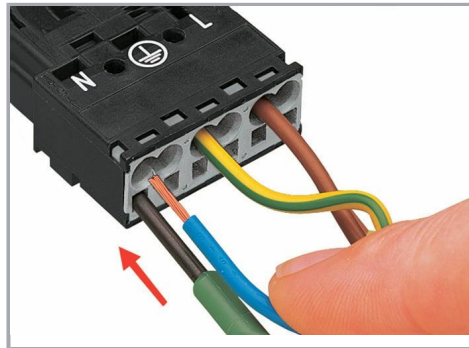|		
Environmental Product Compliance 770-1105/022-000 Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue	URL	Download

Installation Notes

Conductor termination

1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
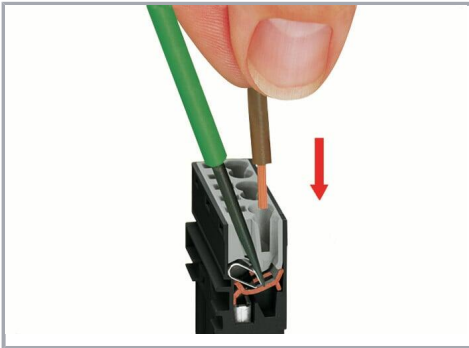2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

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.
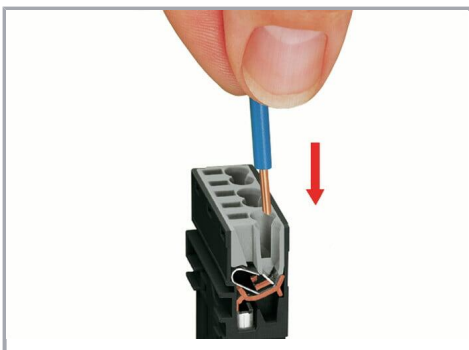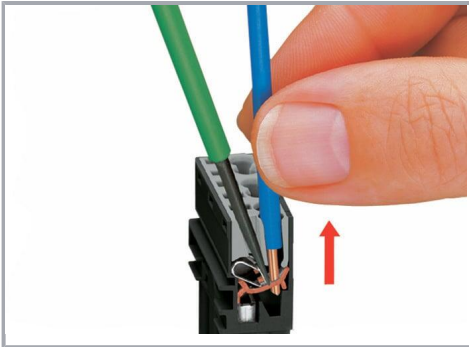

Insert the stripped solid conductor until it hits the backstop.

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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

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

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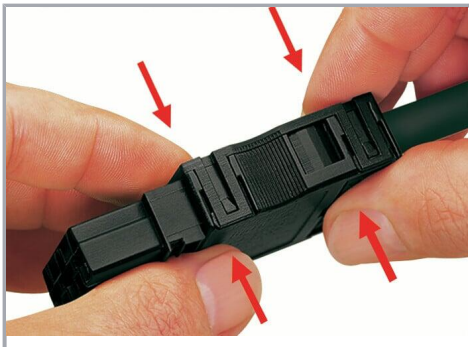Email: info.de@wago.com | Web: www.wago.com

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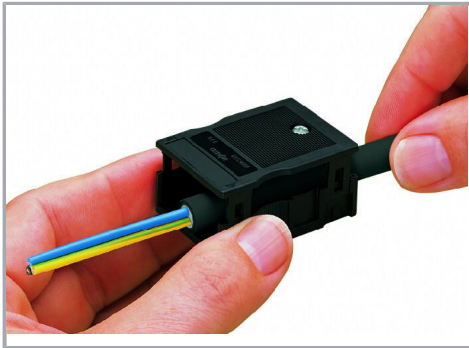
We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.
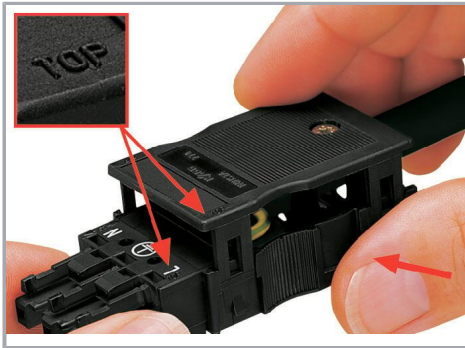
Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.

Prepare strain relief housing by snapping together upper and bottom part.

Tighten strain relief screw with screwdriver (2.5 mm blade width).

Product family

WINSTA® MIDI

Show all products from the family

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