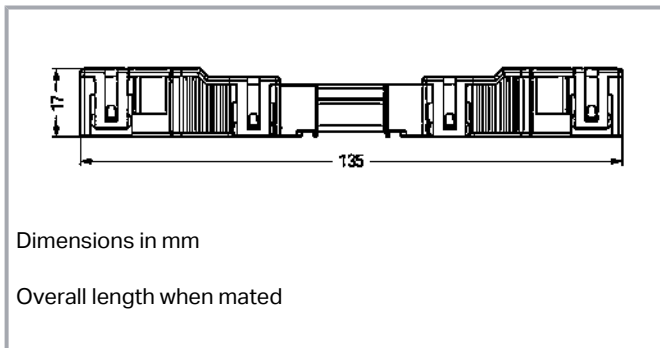
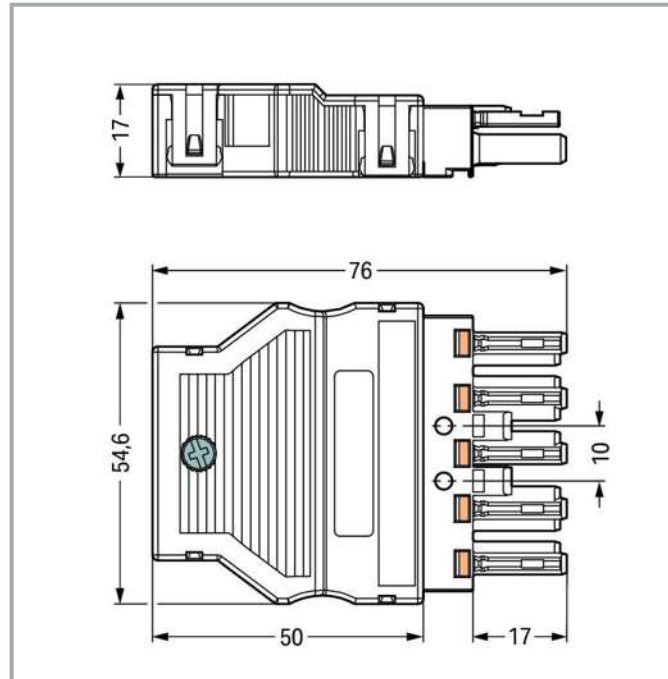
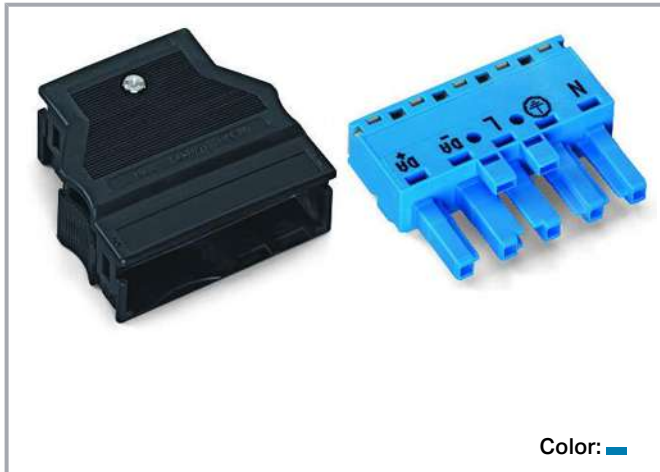


## Data sheet | Item number: 770-1105/022-000

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

[www.wago.com/770-1105\\_022-000](http://www.wago.com/770-1105_022-000)



### Item description

#### Female connector/socket WINSTA® MIDI rated current 25 A

The WINSTA® MIDI female connector/socket with protection type IP20 supports fast, reliable installation. The pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow resource-efficient, error-free installation in a large number of applications.

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

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Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
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The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector offers protection against contact with live components in accordance with protection type IP20. *WINSTA*® MIDI pluggable installation connectors with I coding in blue are especially suitable for easy lighting installation, for example for the dimming of DALI lights. This pluggable installation connector can be employed for a load of up to 25 A. As a result, it can also be used for high power loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Due to the included test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs. 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!

The *WINSTA*® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, more reliable, and error-free. Using this pre-assembled system decreases assembly times and installation errors at the construction site. Now you can also lower installation costs without compromising safety and quality: The *WINSTA*® MIDI pluggable installation connector with marking reduces the need for servicing and prevents unnecessary downtime.

- 
- protection against mismatching eliminates errors
- for automation controllers
- for intelligent, easy lighting installation
- ready for immediate use
- convenient installation and commissioning

## Data

### Electrical data

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

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	400 V
Rated surge voltage (III/3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

### Ratings per UL

Hinweis für den amerikanischen Markt	Application note for the U.S. market (USR): Some versions may also
--------------------------------------	--------------------------------------------------------------------

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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

## Connection data

Total number of 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
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 inch
Number of poles	5
Connectable sheathed cable diameter	9 ... 13 mm
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	55 mm

## Physical data

Pin spacing	10 mm / 0.394 inch
Width	54.6 mm / 2.15 inch
Height	17 mm / 0.669 inch
Depth	75.9 mm / 2.988 inch

## Mechanical data

Application	DALI, Lighting Management
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Coding	I
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 class	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 <sup>®</sup> 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
Hinweis zur Verriegelung	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

Color	blue
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.62 MJ
Connector color	blue
Weight	28.9 g

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

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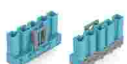



## Environmental requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

## Commercial data

PU (SPU)	25 Stück
Packaging type	box
Country of origin	DE
GTIN	4050821223016
Customs tariff number	8536694040

## Counterpart

	<b>Item no.770-1115</b> Plug; 5-pole; Cod. I; 4,00 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/770-1115">www.wago.com/770-1115</a>
	<b>Item no.770-1115/022-000</b> Plug; with strain relief housing; 5-pole; Cod. I; 4,00 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/770-1115/022-000">www.wago.com/770-1115/022-000</a>
	<b>Item no.770-1947</b> 5-way distribution connector; 5-pole; Cod. I; 1 input; 5 outputs; blue	<a href="http://www.wago.com/770-1947">www.wago.com/770-1947</a>
	<b>Item no.770-2115/007-000</b> WINSTA® through-panel plug (male); snap-in; N/G/L/DA-/DA+ marking; 5-pole; with direct ground contact; blue	<a href="http://www.wago.com/770-2115/007-000">www.wago.com/770-2115/007-000</a>
	<b>Item no.770-2115</b> WINSTA® through-panel plug (male); snap-in; N/G/L/DA-/DA+ marking; 5-pole; blue	<a href="http://www.wago.com/770-2115">www.wago.com/770-2115</a>
	<b>Item no.770-3115</b> Plug for PCBs; straight; 5-pole; Cod. I; blue	<a href="http://www.wago.com/770-3115">www.wago.com/770-3115</a>
	<b>Item no.770-617</b> T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue	<a href="http://www.wago.com/770-617">www.wago.com/770-617</a>
	<b>Item no.770-3115/011-000</b> Plug for PCBs; angled; 5-pole; Cod. I; blue	<a href="http://www.wago.com/770-3115/011-000">www.wago.com/770-3115/011-000</a>
	<b>Item no.770-618</b> 3-way distribution connector; 5-pole; Cod. I; 1 input; 3 outputs; blue	<a href="http://www.wago.com/770-618">www.wago.com/770-618</a>

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

**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](http://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](http://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](http://www.wago.com/770-992)**Item no. 770-993**

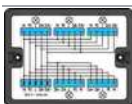
h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; blue

[www.wago.com/770-993](http://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](http://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](http://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](http://www.wago.com/899-631/313-000)

## Required accessories

### Strain relief

**Item no.: 770-505/023-000**

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

[www.wago.com/770-505/023-000](http://www.wago.com/770-505/023-000)**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](http://www.wago.com/770-515)**Item no.: 770-515/023-000**

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

[www.wago.com/770-515/023-000](http://www.wago.com/770-515/023-000)

### Locking levers

**Item no.: 770-101**

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

[www.wago.com/770-101](http://www.wago.com/770-101)**Item no.: 770-111**

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


[www.wago.com/770-111](http://www.wago.com/770-111)**Item no.: 770-121**

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

[www.wago.com/770-121](http://www.wago.com/770-121)

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



	<b>Item no.: 770-131</b> Locking lever; for flying leads; for tool operation; white	<a href="http://www.wago.com/770-131">www.wago.com/770-131</a>
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## Optional accessories

### Cover

	<b>Item no.: 897-2005</b> Protective cap; Type4; for sockets and plugs; PVC; red	<a href="http://www.wago.com/897-2005">www.wago.com/897-2005</a>
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### Marking accessories

	<b>Item no.: 770-450</b> Marker card; Plastic; white	<a href="http://www.wago.com/770-450">www.wago.com/770-450</a>
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	<b>Item no.: 770-450/000-001</b> Marker card; Plastic; green	<a href="http://www.wago.com/770-450/000-001">www.wago.com/770-450/000-001</a>
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	<b>Item no.: 770-450/000-002</b> Marker card; Plastic; yellow	<a href="http://www.wago.com/770-450/000-002">www.wago.com/770-450/000-002</a>
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	<b>Item no.: 770-450/000-005</b> Marker card; Plastic; red	<a href="http://www.wago.com/770-450/000-005">www.wago.com/770-450/000-005</a>
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	<b>Item no.: 770-450/000-006</b> Marker card; Plastic; blue	<a href="http://www.wago.com/770-450/000-006">www.wago.com/770-450/000-006</a>
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	<b>Item no.: 770-450/000-012</b> Marker card; Plastic; orange	<a href="http://www.wago.com/770-450/000-012">www.wago.com/770-450/000-012</a>
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### Tools

	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
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## Downloads

### Environmental Product Compliance

#### Compliance Search

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

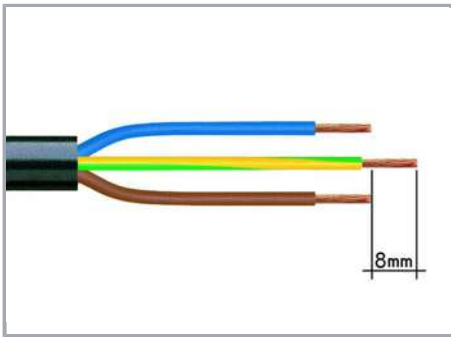
## Installation Notes

### Conductor termination

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

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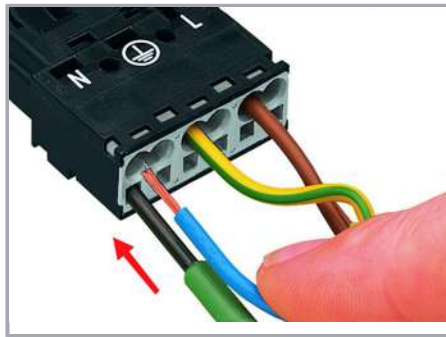
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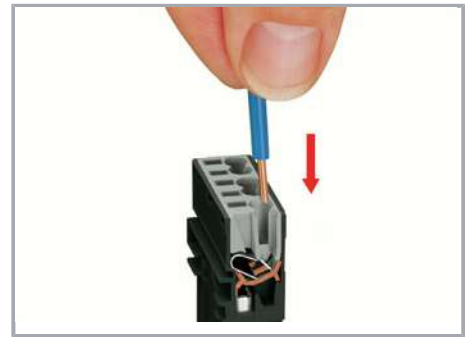
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

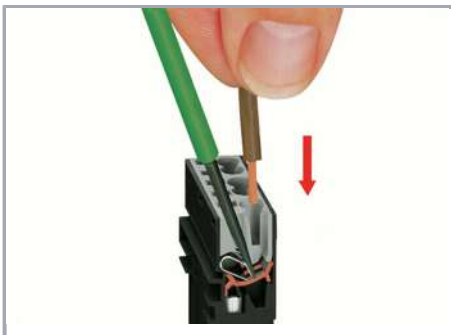
3. Extended ground conductor = 8 mm



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.

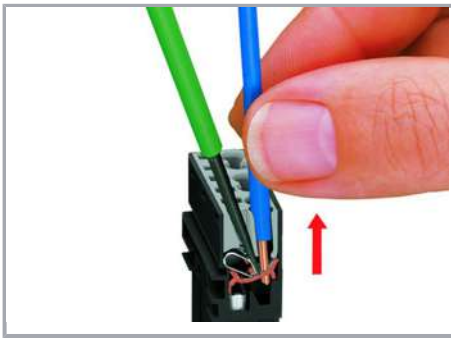


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

#### Conductor removal

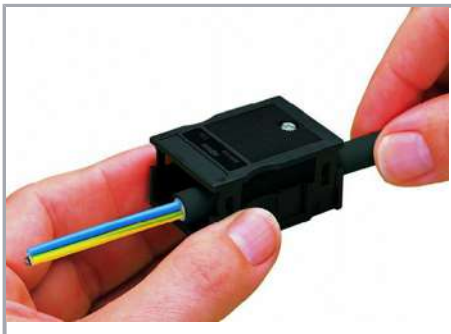
Subject to changes. Please also observe the further product documentation!



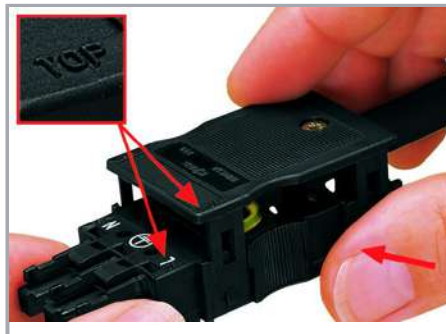


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

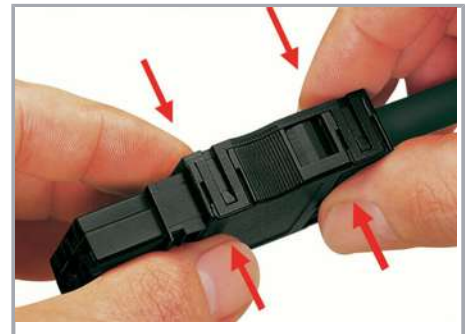
#### Installation



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!



## Product family

**<i>WINSTA</i>® MIDI**

[Show all products from the family](#)

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

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