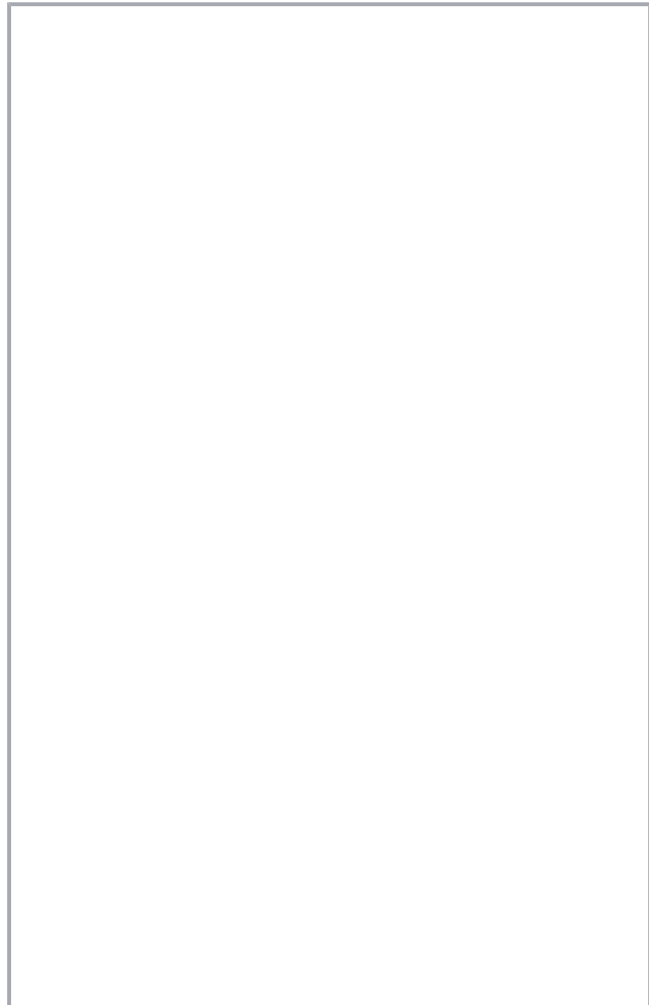
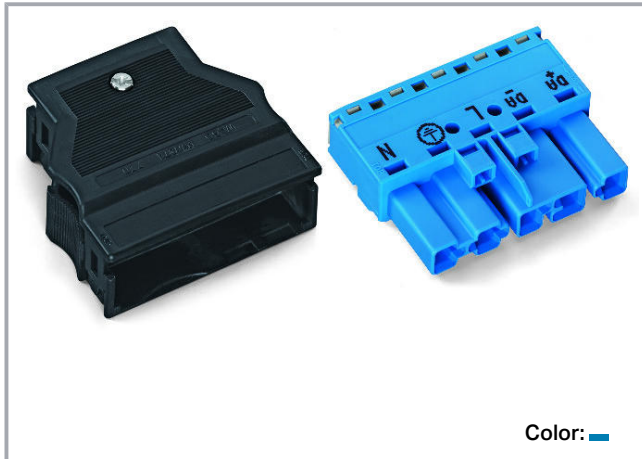


Data sheet | Item number: 770-1115/022-000  
Plug; with strain relief housing; 5-pole; 4,00 mm<sup>2</sup>; blue  
[www.wago.com/770-1115/022-000](http://www.wago.com/770-1115/022-000)



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Dimensions in mm  
Overall length when mated

## Item description

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

The *WINSTA*® MIDI male connector/plug with protection type IP20 supports rapid, correct installation. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in no time flat. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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!)). *WINSTA*® MIDI pluggable installation connectors with I coding in blue are primarily suitable for lighting management, for example for the dimming of DALI lights. The rated current and voltage are important criteria for selecting a pluggable installation connector: They tell us about the product's domains of use. This product has a current rating

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of 25 A – so it is suitable for powerful loads. The *WINSTA*® MIDI product line allows total flexibility for the installation of applications. Through its Push-in CAGE CLAMP® spring pressure connection technology, it achieves time-saving, error-free installation and offers customization for meeting all installation requirements. The strip length is 55 mm.

### **WINSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free**

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 – the *WINSTA*® MIDI pluggable installation connector with protection type IP20 from WAGO makes the installation of electrical components significantly easier.

- pluggable installation connectors with protection against mismatching
- simple circuits
- with I coding for use in building automation (lighting control)
- custom-engineered solutions
- rapid, structured electrical installation

### **Data**

#### **Electrical data**

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

#### **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**

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

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## Connection data

Total number of connection points	10
Total number of potentials	5
PE function	Preceding PE contact

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm <sup>2</sup>
Solid conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup> / 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 inch
Pole number	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, Lichtmanagement
Coding	I
Variable coding	No
Marking	N $\perp$ L DA- DA+
Potential marking	N $\perp$ L DA- DA+
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)

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



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)	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).
Strain relief	strain relief housing

### Material data

Note (material data)	Information on material data can be found here
Color	blue
Cover color	gray
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Fire load	0.657 MJ
Connector color	blue
Weight	29.1 g

### Environmental requirements

Processing temperature	-5 ... +40 °C
------------------------	---------------

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




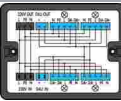
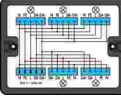
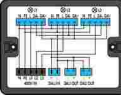
### Commercial data

PU (SPU)	25 Each
Packaging type	box
Country of origin VKOrg Germany	DE
GTIN	4050821223009
Customs tariff number VKOrg Germany	85366990990

### Counterpart

	<b>Item no.770-1105</b> Socket; 5-pole; Cod. I; 4,00 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/770-1105">www.wago.com/770-1105</a>
	<b>Item no.770-1105/022-000</b> Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/770-1105/022-000">www.wago.com/770-1105/022-000</a>
	<b>Item no.770-1947</b> 5-way distribution connector; 5-pole; Cod. I; 1 input; 5 outputs	<a href="http://www.wago.com/770-1947">www.wago.com/770-1947</a>
	<b>Item no.770-2105</b> Snap-in socket; 5-pole; Cod. I; 4,00 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/770-2105">www.wago.com/770-2105</a>
	<b>Item no.770-3105</b> Socket for PCBs; straight; 5-pole; Cod. I; blue	<a href="http://www.wago.com/770-3105">www.wago.com/770-3105</a>
	<b>Item no.770-3105/011-000</b> Socket for PCBs; angled; 5-pole; Cod. I; blue	<a href="http://www.wago.com/770-3105/011-000">www.wago.com/770-3105/011-000</a>
	<b>Item no.770-992</b> h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 2 locking levers; blue	<a href="http://www.wago.com/770-992">www.wago.com/770-992</a>
	<b>Item no.770-993</b> h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; blue	<a href="http://www.wago.com/770-993">www.wago.com/770-993</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.770-618</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>
	<b>Item no.770-7105</b>	




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	Linect® T-connector; 5-pole; Cod. I; 1 input; 2 outputs; blue	<a href="http://www.wago.com/770-7105">www.wago.com/770-7105</a>
	<b>Item no.772-272</b> Tap-off module; for flat cable; 5 x 2.5 mm <sup>2</sup> ; 5-pole; Cod. I; with cable connection on the output side; blue	<a href="http://www.wago.com/772-272">www.wago.com/772-272</a>
	<b>Item no.770-620</b> T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue	<a href="http://www.wago.com/770-620">www.wago.com/770-620</a>
	<b>Item no.771-9985/106-101</b> pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/771-9985/106-101">www.wago.com/771-9985/106-101</a>
	<b>Item no.771-9985/006-101</b> pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. I; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; blue	<a href="http://www.wago.com/771-9985/006-101">www.wago.com/771-9985/006-101</a>
	<b>Item no.899-631/181-000</b> Distribution box; 230 V + DALI; 2 inputs; 6 outputs; Cod. A, I; MINI, MIDI; black	<a href="http://www.wago.com/899-631/181-000">www.wago.com/899-631/181-000</a>
	<b>Item no.899-631/313-000</b> Distribution box; DALI; 1 input; 5 outputs; Cod. I; MIDI; black	<a href="http://www.wago.com/899-631/313-000">www.wago.com/899-631/313-000</a>
	<b>Item no.899-631/455-000</b> Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; black	<a href="http://www.wago.com/899-631/455-000">www.wago.com/899-631/455-000</a>

## Required accessories

### Strain relief

#### Strain relief housing

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

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

## Data sheet | Item number: 770-1115/022-000

[www.wago.com/770-1115/022-000](http://www.wago.com/770-1115/022-000)



**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)



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

[www.wago.com/770-515/021-000](http://www.wago.com/770-515/021-000)

### Locking levers

Locking device



**Item no.: 770-121**  
Locking lever; for flying leads; for manual operation; white

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



**Item no.: 770-131**  
Locking lever; for flying leads; for tool operation; white

[www.wago.com/770-131](http://www.wago.com/770-131)



**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)

### Optional accessories

#### Coding

Coding



**Item no.: 770-401**  
Coding pin; for plugs; Plastic; gray

[www.wago.com/770-401](http://www.wago.com/770-401)

#### Marking accessories

Marker

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

[www.wago.com/770-450/000-002](http://www.wago.com/770-450/000-002)

**Item no.: 770-450/000-001**  
Marker card; Plastic; green

[www.wago.com/770-450/000-001](http://www.wago.com/770-450/000-001)



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

[www.wago.com/770-450/000-005](http://www.wago.com/770-450/000-005)

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## Data sheet | Item number: 770-1115/022-000

[www.wago.com/770-1115/022-000](http://www.wago.com/770-1115/022-000)



Item no.: 770-450  
Marker card; Plastic; white

[www.wago.com/770-450](http://www.wago.com/770-450)

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

[www.wago.com/770-450/000-006](http://www.wago.com/770-450/000-006)



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

[www.wago.com/770-450/000-012](http://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](http://www.wago.com/210-719)

### Cover

Cover

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

[www.wago.com/770-360](http://www.wago.com/770-360)

Other



Item no.: 897-2005  
Protective cap; Type4; for sockets and plugs; PVC; red

[www.wago.com/897-2005](http://www.wago.com/897-2005)

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 770-1115/022-000	URL	Download
Plug; with strain relief housing; 5-pole; 4,00 mm <sup>2</sup> ; blue		

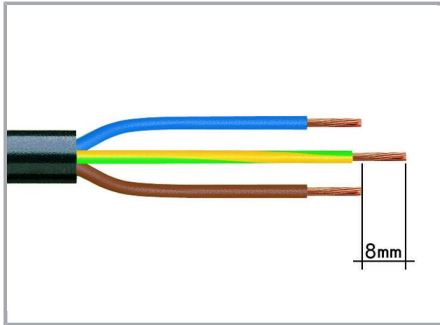
## Installation Notes

### Conductor termination

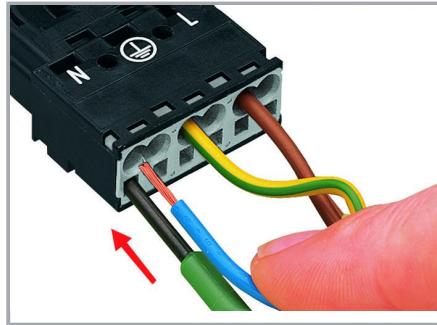
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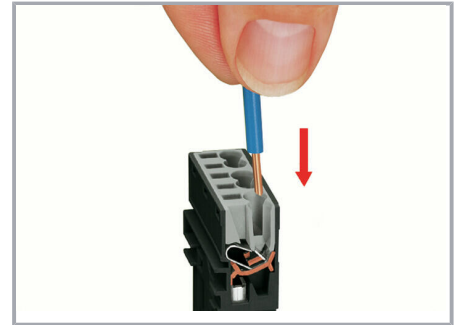
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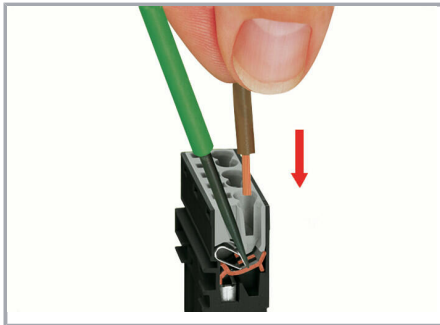
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



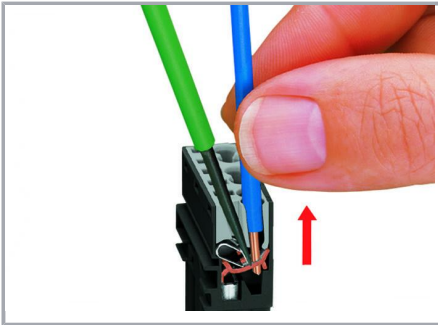
Insert the stripped solid conductor until it hits the backstop.



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.

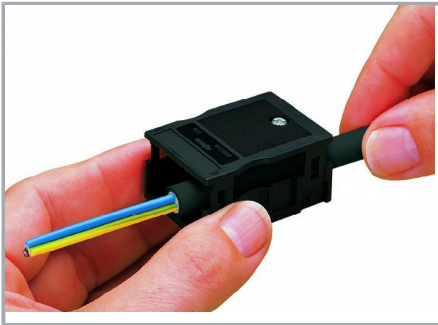
#### Conductor removal

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

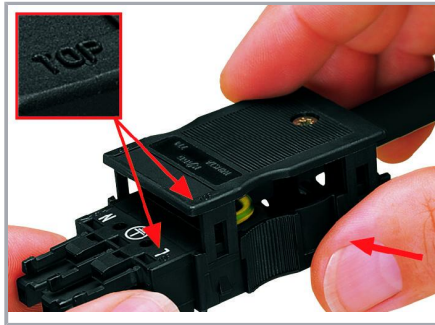


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

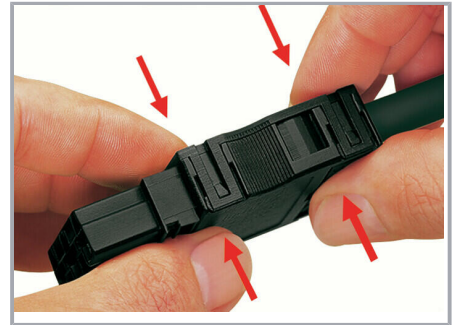
### Installation



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!

Data sheet | Item number: 770-1115/022-000  
[www.wago.com/770-1115/022-000](http://www.wago.com/770-1115/022-000)



## Product family

WINSTA® MIDI

[Show all products from the family](#)

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