

Data sheet | Item number: 770-1115

Plug; 5-pole; 4,00 mm<sup>2</sup>; blue

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



Color:



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

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## Item description

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

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI male connector/plug 5-pole. Whether 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. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. 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 identify *WINSTA*® MIDI pluggable installation connectors, which are used primarily in automation of buildings for controlling lighting. This pluggable installation connector can be employed for a load of up to 25 A. Therefore, 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 built-in test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs.

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

*WINSTA*® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with protection type IP20 from WAGO.

- protection against mismatching eliminates errors
- simple circuits
- with I coding for lighting control (DALI standard)
- flexible installation to save space
- quick replacement of defective units during ongoing operation

## 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

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Rated current	25 A
Legend (ratings)	(III / 3) $\hat{=}$ 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

### General information

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

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

### Connection 1

Connection technology	Push-in CAGE CLAMP <sup>®</sup>
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm <sup>2</sup> / 12 AWG
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 inches
Pole number	5
Conductor entry direction to mating direction	0°

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## 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

## Mechanical Data

Application	DALI, Lighting Management
Coding	I
Variable coding	No
Marking	DA+ DA- L $\perp$ N
Potential marking	DA+ DA- L $\perp$ N
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)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All <i>WINSTA</i> <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
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).

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



## 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
Fire load	0.393 MJ
Weight	15.7 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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918254816
Customs tariff number	85366990990

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

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Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61535	71- 123228
	<b>CCA</b> DEKRA Certification B.V.	IEC 61535	NL -84761
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1059	E 45172
	<b>VDE</b> VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808

#### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1868589- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	<b>LR</b> Lloyds Register	IEC 61984	LR22429487TA

#### 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; blue	<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>

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<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.770-620</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.770-7105</b> 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.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.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.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.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.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>
<b>Item no.899-681/146-000</b> Distribution box; 230 V + DALI; 1 input; 7 outputs; Cod. I; MINI, MIDI	<a href="http://www.wago.com/899-681/146-000">www.wago.com/899-681/146-000</a>
<b>Item no.899-681/147-000</b> Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; white	<a href="http://www.wago.com/899-681/147-000">www.wago.com/899-681/147-000</a>

## Required accessories

### Locking levers

Locking system	
<b>Item no.: 770-121</b> Locking lever; for flying leads; for manual operation; white	<a href="http://www.wago.com/770-121">www.wago.com/770-121</a>
<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>
<b>Item no.: 770-101</b> Locking lever; for flying leads; for manual operation; black	<a href="http://www.wago.com/770-101">www.wago.com/770-101</a>

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**Item no.: 770-111**

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

[www.wago.com/770-111](http://www.wago.com/770-111)**Strain relief**

## Strain relief housing

**Item no.: 770-505/021-000**

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

[www.wago.com/770-505/021-000](http://www.wago.com/770-505/021-000)**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.: 770-505**

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

[www.wago.com/770-505](http://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](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)**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)**Optional accessories****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)**Item no.: 897-2005**

Protective cap; Type4; for sockets and plugs; PVC; red

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

## Coding

**Item no.: 770-401**

Coding pin; for plugs; Plastic; gray

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

## Mounting accessories

**Item no.: 770-320**

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

[www.wago.com/770-320](http://www.wago.com/770-320)**Item no.: 770-321**

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

[www.wago.com/770-321](http://www.wago.com/770-321)**Item no.: 770-340**

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

[www.wago.com/770-340](http://www.wago.com/770-340)**Item no.: 770-341**

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

[www.wago.com/770-341](http://www.wago.com/770-341)**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)**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)**Downloads****Documentation****Bid Text**

770-1115 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
770-1115 doc - Datei	2015 年6月8日	doc 24.1 kB	Download
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## CAD/CAE-Data

### CAE data

WSCAD Universe 770-1115	<a href="#">URL</a>	<a href="#">Download</a>
ZUKEN Portal 770-1115	<a href="#">URL</a>	<a href="#">Download</a>
EPLAN Data Portal 770-1115	<a href="#">URL</a>	<a href="#">Download</a>

### CAD data

2D/3D Models 770-1115	<a href="#">URL</a>	<a href="#">Download</a>
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-1115 Plug; 5-pole; 4,00 mm <sup>2</sup> ; blue	<a href="#">URL</a>	<a href="#">Download</a>
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## 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.

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

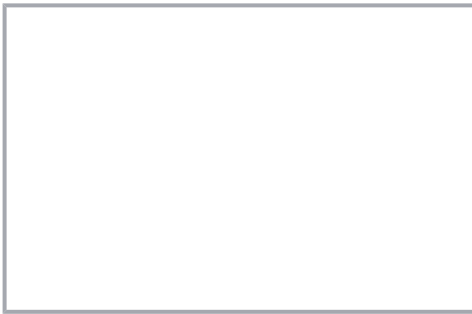


Insert the stripped solid conductor until it hits the backstop.



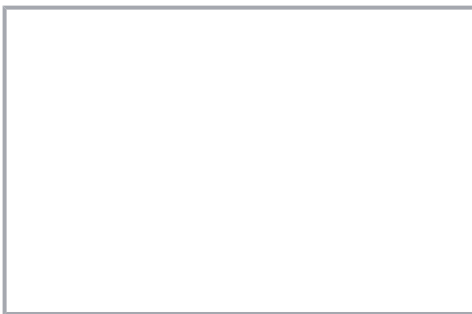
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

#### 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.

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



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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