

**Data sheet | Item number: 770-135**

Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-135](http://www.wago.com/770-135)



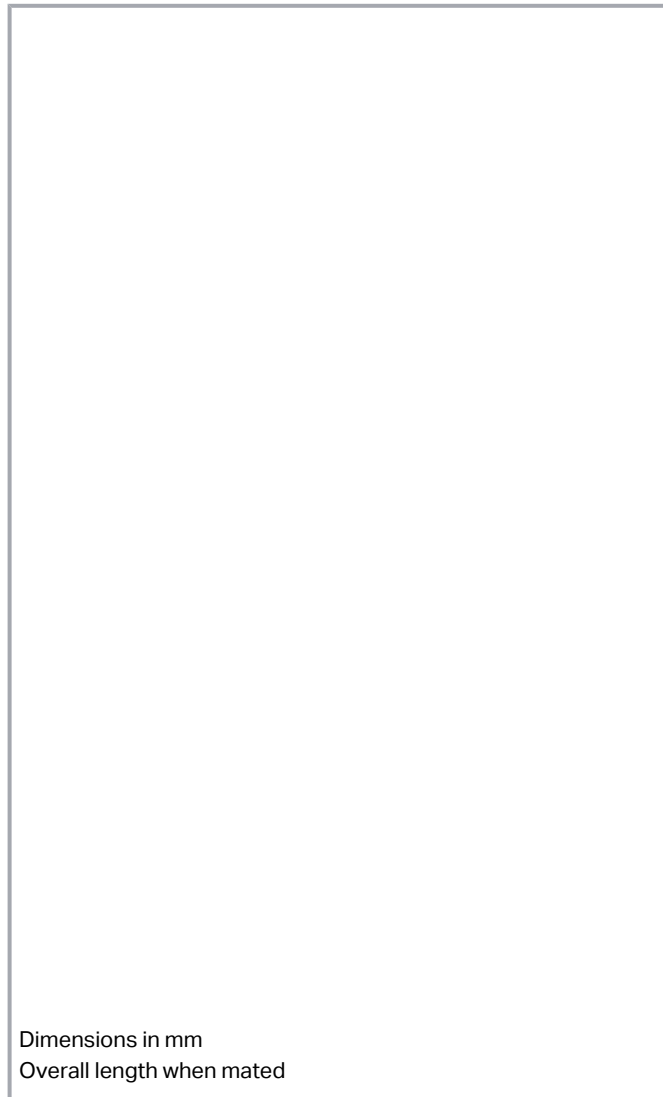
**Color:**

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## Item description

### Male connector/plug *WINSTA*® MIDI with protection against mismatching

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI male connector/plug with protection against mismatching. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to an enormous variety of requirements in next to no time. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector offers protection against contact with live components 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!)). Thanks to the color coding and mechanical A coding of *WINSTA*® MIDI pluggable installation connectors, you can clearly distinguish different circuits. This pluggable installation connector can be used for electrical currents up to

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25 A. Thus the product is ideally suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Due to the integrated test slot, connections can be checked even when they are plugged in. This saves time, labor, and money. The strip length is 55 mm.

**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 strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, more reliable, and error-free. Using this pre-assembled system reduces assembly times and installation errors at the construction site. Now you can also cut installation expenses without compromising safety and quality: The WINSTA® MIDI pluggable installation connector with protection against mismatching eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- simple circuits
- suitable for any application
- custom-engineered solutions
- 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
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

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## General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ 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®
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°
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	General mains applications
Coding	A
Variable coding	Yes

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Marking	L3 L2 L1 $\downarrow$ N
Potential marking	L3 L2 L1 $\downarrow$ 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).
Strain relief	strain relief housing

### Material Data

Note (material data)	Information on material specifications can be found here
Color	white
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

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Contact plating	Tin
Fire load	0.716 MJ
Weight	29.5 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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918254502
Customs tariff number	85366990990

### Environmental Product Compliance

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

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	IEC 61535	NL -84761
	<b>CCA</b> DEKRA Certification B.V.	EN 61535	71- 123228
	<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

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VDE  
VDE Prüf- und Zertifizierungsinstitut

EN 61984

40002889

## 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.770-125</b> Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-125">www.wago.com/770-125</a>
<b>Item no.770-225</b> Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-225">www.wago.com/770-225</a>
<b>Item no.770-325</b> Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-325">www.wago.com/770-325</a>
<b>Item no.770-6225</b> Linect® T-connector; 5-pole; Cod. A; 1 input; 2 outputs; white	<a href="http://www.wago.com/770-6225">www.wago.com/770-6225</a>
<b>Item no.770-425</b> Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-425">www.wago.com/770-425</a>
<b>Item no.770-661</b> Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; white	<a href="http://www.wago.com/770-661">www.wago.com/770-661</a>
<b>Item no.770-671</b> T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	<a href="http://www.wago.com/770-671">www.wago.com/770-671</a>
<b>Item no.770-672</b> T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	<a href="http://www.wago.com/770-672">www.wago.com/770-672</a>
<b>Item no.770-690</b> Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white	<a href="http://www.wago.com/770-690">www.wago.com/770-690</a>
<b>Item no.770-725</b> Snap-in socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-725">www.wago.com/770-725</a>
<b>Item no.770-725/009-000</b>	<a href="http://www.wago.com/770-725/009-000">www.wago.com/770-725/009-000</a>

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Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	725/009-000
<b>Item no. 770-825</b> Socket for PCBs; straight; 5-pole; Cod. A; white	<a href="http://www.wago.com/770-825">www.wago.com/770-825</a>
<b>Item no. 770-825/011-000</b> Socket for PCBs; angled; 5-pole; Cod. A; white	<a href="http://www.wago.com/770-825/011-000">www.wago.com/770-825/011-000</a>
<b>Item no. 771-9995/006-102</b> pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/771-9995/006-102">www.wago.com/771-9995/006-102</a>
<b>Item no. 771-9995/106-102</b> pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white	<a href="http://www.wago.com/771-9995/106-102">www.wago.com/771-9995/106-102</a>
<b>Item no. 899-681/100-000</b> Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; white	<a href="http://www.wago.com/899-681/100-000">www.wago.com/899-681/100-000</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>
<b>Item no.: 770-111</b> Locking lever; for flying leads; for tool operation; black	<a href="http://www.wago.com/770-111">www.wago.com/770-111</a>

## Optional accessories

### Marking accessories

Marker	
<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>
<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>
<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>
<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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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)

#### 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)

#### Tool

Wiring aid

Item no.: 770-100  
Wiring aid; 2- to 5-pole; Plastic; orange

[www.wago.com/770-100](http://www.wago.com/770-100)

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)

#### Coding

Coding

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

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

## Downloads

### Documentation

#### Bid Text

770-135 X81 - Datei	2019 年2月19 日	xml 3.1 kB	Download
770-135 doc - Datei	2015 年6月8 日	doc 24.1 kB	Download
ausschreiben.de 770-135		URL	Download

## CAD/CAE-Data

### CAD data

2D/3D Models 770-135

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ZERO model 770-135

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### CAE data

EPLAN Data Portal 770-135

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ZUKEN Portal 770-135

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WSCAD Universe 770-135

[URL](#) [Download](#)

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-135

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Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; white

## 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.

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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

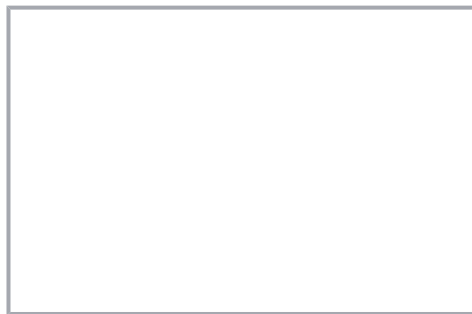


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

### 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.

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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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