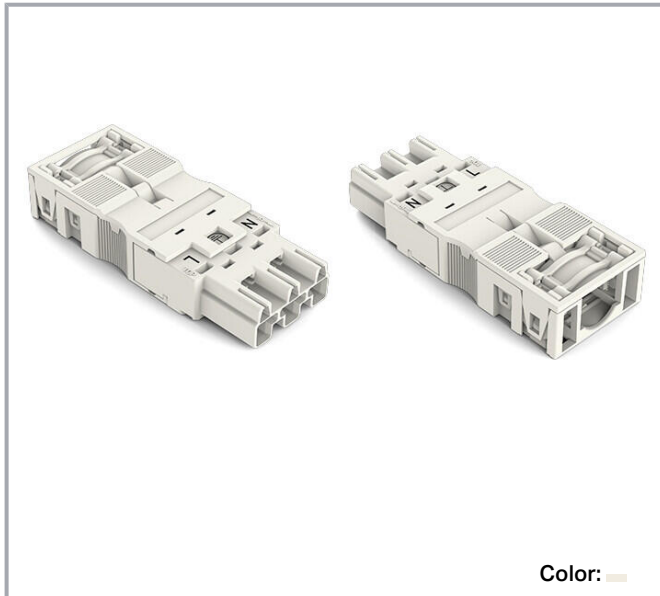


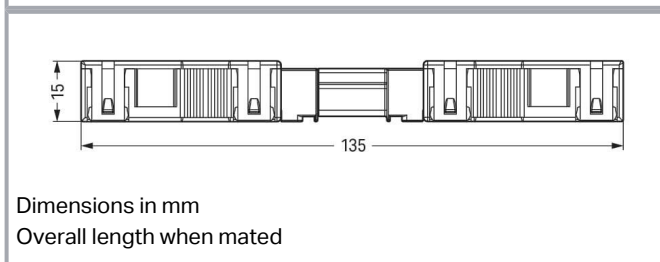
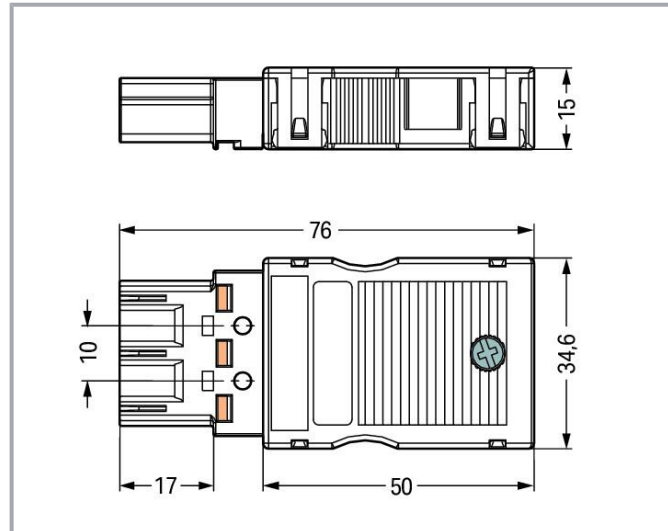
## Data sheet | Item number: 770-133

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-133](http://www.wago.com/770-133)



Color:



Dimensions in mm  
Overall length when mated

### Item description

#### Male connector/plug *WINSTA*® MIDI with strain relief

The *WINSTA*® MIDI male connector/plug rated current 25 A provides the foundation for installation of solid and fine-stranded conductors. Our pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow fast, efficient, error-free installation in a large number of applications. The coding options reduce installation errors, allowing fast, maintenance-free 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!)). The *WINSTA*® MIDI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. The rated current and voltage are important criteria for selecting a pluggable installation connector: They provide information about possible domains of use and applications. This product has a current rating of 25 A – therefore it is also suitable for high power loads. *WINSTA*® MIDI

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Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy, secure, tailored installation. A range up to 55 mm can be used for the strip length.

## WINSTA® MIDI solutions for your electrical installation – protected against mismating 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. Now you can also reduce installation costs without compromising safety and quality: with marking reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismating
- pre-assembled versions
- for any mains application
- ready for immediate use
- fast, secure installation

## Data

### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 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

### 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	6
Total number of potentials	3
PE function	Preceding PE contact

## 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	3
Conductor entry direction to mating direction	0 °
Strip length (outer insulation)	55 mm

## Physical data

Pin spacing	10 mm / 0.394 inches
Width	34.6 mm / 1.362 inches
Height	15 mm / 0.591 inches
Depth	76 mm / 2.992 inches

## Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	N ≡ L
Potential marking	N ≡ L
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 <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
Contact plating	Tin
Fire load	0.469 MJ
Strain relief color	white

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



Weight	20 g
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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



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	4044918254120
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
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
	CCA DEKRA Certification B.V.	EN 61535	71- 123228
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

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	VDE	EN 61535	40029808
	VDE Prüf- und Zertifizierungsinstitut		
	VDE	EN 61984	40002889
	VDE Prüf- und Zertifizierungsinstitut		


## Declarations of conformity and manufacturer's declarations

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

## Approvals for marine applications

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














## Counterpart

	Item no.770-123	<a href="http://www.wago.com/770-123">www.wago.com/770-123</a>
	Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	

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

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Hansastr. 27  
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	<b>Item no.770-223/035-050</b> Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-223/035-050">www.wago.com/770-223/035-050</a>
	<b>Item no.770-223</b> Socket; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-223">www.wago.com/770-223</a>
	<b>Item no.770-6223</b> Linect® T-connector; 3-pole; Cod. A; 1 input; 2 outputs; white	<a href="http://www.wago.com/770-6223">www.wago.com/770-6223</a>
	<b>Item no.770-656</b> T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	<a href="http://www.wago.com/770-656">www.wago.com/770-656</a>
	<b>Item no.770-657</b> 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; white	<a href="http://www.wago.com/770-657">www.wago.com/770-657</a>
	<b>Item no.770-658</b> 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; white	<a href="http://www.wago.com/770-658">www.wago.com/770-658</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.770-683</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 2 locking levers; white	<a href="http://www.wago.com/770-683">www.wago.com/770-683</a>
	<b>Item no.770-665</b> T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	<a href="http://www.wago.com/770-665">www.wago.com/770-665</a>
	<b>Item no.770-684</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	<a href="http://www.wago.com/770-684">www.wago.com/770-684</a>
	<b>Item no.770-685</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; white	<a href="http://www.wago.com/770-685">www.wago.com/770-685</a>
	<b>Item no.770-686</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white	<a href="http://www.wago.com/770-686">www.wago.com/770-686</a>
	<b>Item no.770-687</b> Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	<a href="http://www.wago.com/770-687">www.wago.com/770-687</a>
	<b>Item no.770-688</b>	

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



Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white

[www.wago.com/770-688](http://www.wago.com/770-688)



**Item no.770-690**

Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white

[www.wago.com/770-690](http://www.wago.com/770-690)



**Item no.770-723**

Snap-in socket; 3-pole; Cod. A; 4,00 mm²; white

[www.wago.com/770-723](http://www.wago.com/770-723)



**Item no.770-723/009-000**

Snap-in socket; with protruding mating face; 3-pole; Cod. A; 4,00 mm²; white

[www.wago.com/770-723/009-000](http://www.wago.com/770-723/009-000)



**Item no.770-823**

Socket for PCBs; straight; 3-pole; Cod. A; white

[www.wago.com/770-823](http://www.wago.com/770-823)



**Item no.770-823/011-000**

Socket for PCBs; angled; 3-pole; Cod. A; white

[www.wago.com/770-823/011-000](http://www.wago.com/770-823/011-000)

## Required accessories

### Locking levers

#### Locking system



**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

### 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)

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32423 Minden

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## 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)

**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)

**Item no.: 770-383**  
Operating tool; 3-way; green

[www.wago.com/770-383](http://www.wago.com/770-383)

## Downloads

## Documentation

## Bid Text

770-133	2019 Feb 19	xml	Download
X81 - Datei		3.1 kB	

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doc - Datei		24.1 kB	

## CAD/CAE-Data

### CAD data

2D/3D Models 770-133	URL	Download
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### CAE data

WSCAD Universe 770-133	URL	Download
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ZUKEN Portal 770-133	URL	Download
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EPLAN Data Portal 770-133	URL	Download
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### Asset Administration Shell

Asset Administration Shell 770-133	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-133	URL	Download
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Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

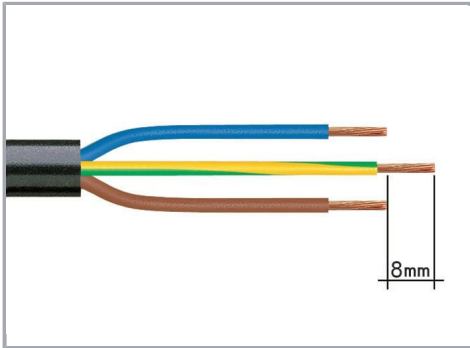
## Installation Notes

### Conductor termination

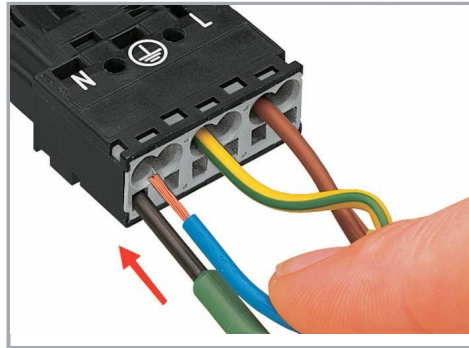
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32423 Minden  
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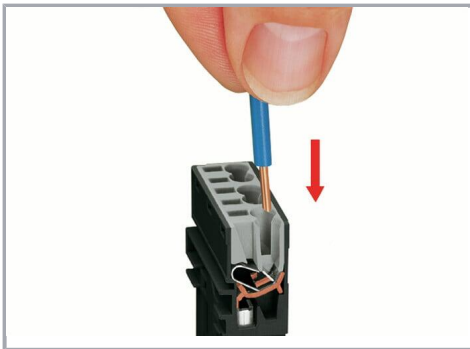
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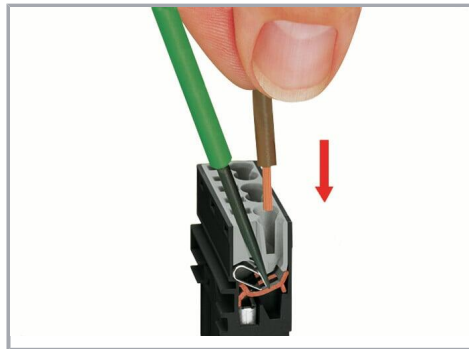
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

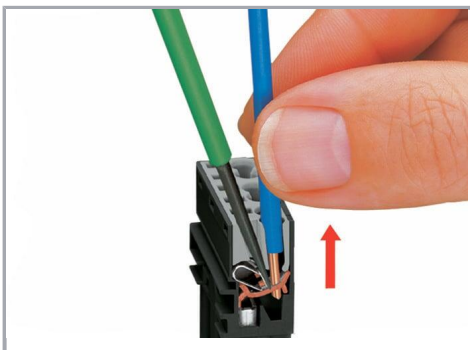


Insert the stripped solid conductor until it hits the backstop.



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



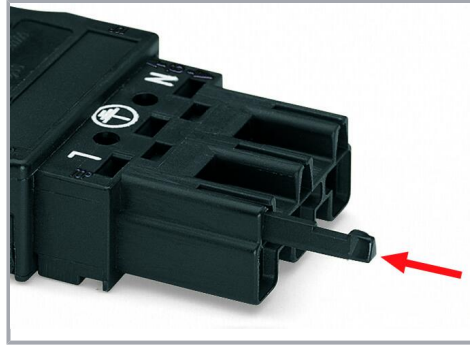
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

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

## Coding

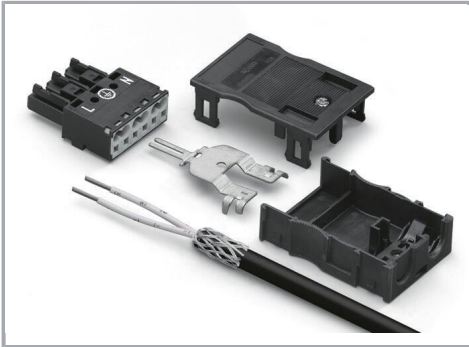


Simply cut off the coding pin from the socket.

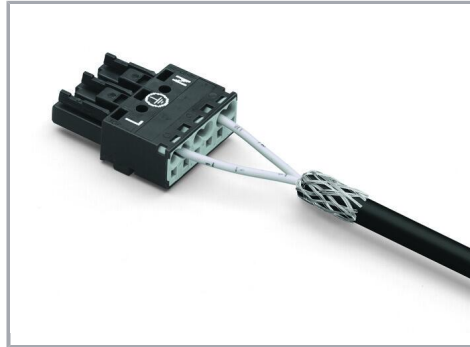


Insert coding pin into plug (break first) until it engages.

## Shield termination



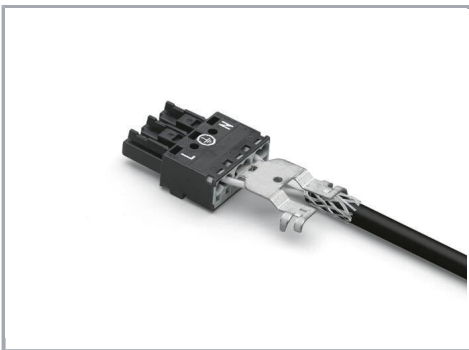
Connector with shield termination



Apply the shield to the sheathed cable.

Strip length, outer insulation = 55 mm

Shield length = 10 mm



Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into a strain relief housing, then snap cover and tighten screw.

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



## Product family

### WINSTA® MIDI

[Show all products from the family](#)

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

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WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

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