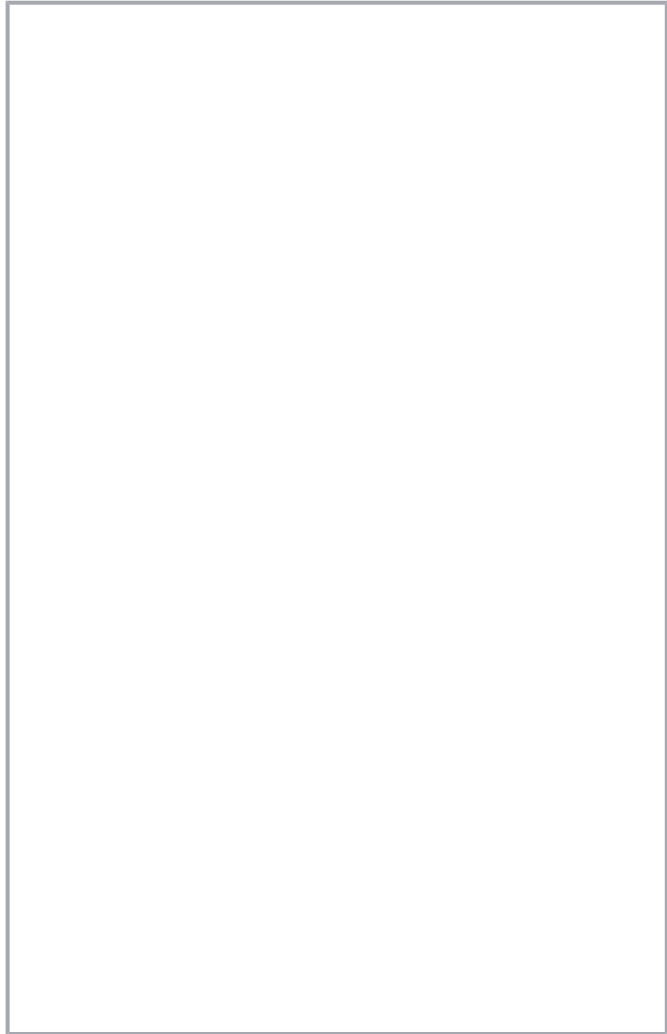
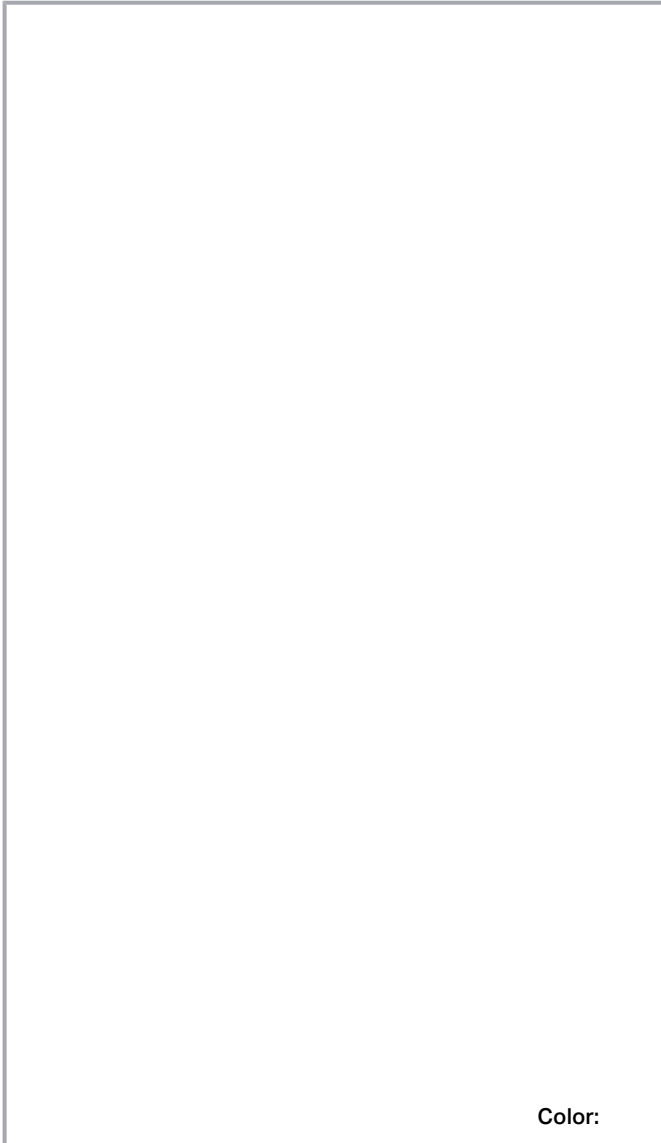


**Data sheet | Item number: 770-235**  
Plug; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-235](http://www.wago.com/770-235)



**Color:**

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

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## Item description

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

The *WINSTA*® MIDI male connector/plug with protection against mismatching supports rapid, correct installation. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow flexible, error-free installation in a large number of applications. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector is protected 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!)). This means that users' fingers will never come into contact with energised elements. The *WINSTA*® MIDI pluggable installation connector with A coding in white or black is usually used for general mains applications in power distribution. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy, flexible, and secure electrical installation.

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

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose quality and durability – the *WINSTA*® MIDI pluggable installation connector with protection against mismatching from WAGO makes the installation of electrical components noticeably easier.

- protection against mismatching eliminates errors
- simple circuits
- with A coding for use in many general mains applications
- ready to install and use immediately
- 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

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

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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

## 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°

## Physical data

Pin spacing

10 mm / 0.394 inches

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Width	50 mm / 1.969 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

## Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L3 L2 L1 $\frac{1}{3}$ N
Potential marking	L3 L2 L1 $\frac{1}{3}$ 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).

## Material Data

Note (material data)

Information on material specifications can be found here

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

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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	0.357 MJ
Weight	16.3 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	4044918254601
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	IEC 61535	NL -84761

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



DEKRA Certification B.V.

<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 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.770-325</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.770-425</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.770-225</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.770-6225</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.770-671</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.770-661</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>

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

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<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> Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-725/009-000">www.wago.com/770-725/009-000</a>
<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

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

### Locking levers

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

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## 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

## Cover

## Cover

<b>Item no.: 770-360</b> Lockout cap; for plugs; 5-pole; separable; yellow	<a href="http://www.wago.com/770-360">www.wago.com/770-360</a>
<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>

## 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>
<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>
<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>

## Mounting

## Mounting accessories

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



**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**

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)**Coding**

Coding

**Item no.: 770-401**

Coding pin; for plugs; Plastic; gray

[www.wago.com/770-401](http://www.wago.com/770-401)**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)**Downloads****Documentation****Bid Text**

770-235 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
770-235 doc - Datei	2015 年6月8日	doc 24.1 kB	Download

**CAD/CAE-Data****CAD data**

2D/3D Models 770-235	URL	Download
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**CAE data**

ZUKEN Portal 770-235	URL	Download
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EPLAN Data Portal 770-235

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Environmental Product Compliance 770-235

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## Environmental Product Compliance

### Compliance Search

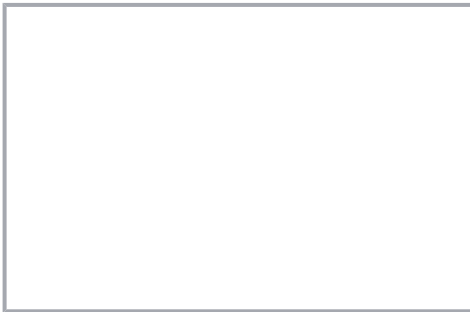
Environmental Product Compliance 770-235

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

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

## Installation Notes

### Conductor termination



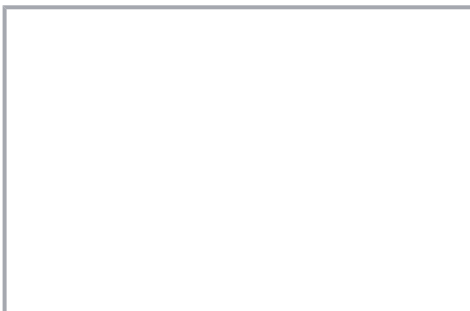
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

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.



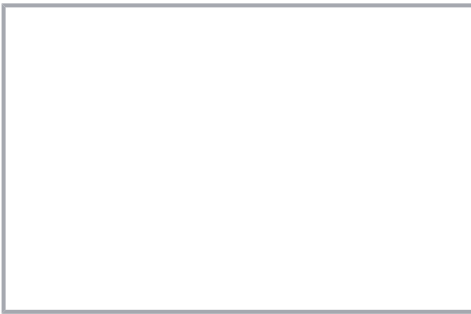
Insert the stripped solid conductor until it hits the backstop.

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



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](#)

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