

**Data sheet | Item number: 770-203**

Socket; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-203](http://www.wago.com/770-203)



**Color:**



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

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## Item description

### Female connector/socket WINSTA® MIDI 3-pole

The WINSTA® MIDI female connector/socket with protection type IP20 allows installation of solid and fine-stranded conductors. The pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow flexible, error-free installation in a large number of possible uses. 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!)). Standard mains applications for almost any domain of use can be implemented with WINSTA® MIDI pluggable installation connectors with A coding. This pluggable installation connector is designed for a load of up to 25 A. As a result, it can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy and maximally flexible installation.

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

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus more efficient, more reliable, and error-free. Using this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Choose durability and quality – the WINSTA® MIDI pluggable installation connector with protection type IP20 from WAGO makes the installation of electrical components substantially easier.

- pluggable installation connectors with protection against mismatching
- simple circuits
- with A coding for a large number of uses
- flexible installation to save space
- convenient installation and commissioning

## 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

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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

6

Total number of potentials

3

Number of test slots

3

## 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

3

Conductor entry direction to mating direction

0°

## Physical data

Pin spacing

10 mm / 0.394 inches

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Width	30 mm / 1.181 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	L ⊥ N
Potential marking	L ⊥ 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)	Female connector/socket
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

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Color	black
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	0.173 MJ
Weight	9.5 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)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918252225
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.770-213/002-000</b> Plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/770-213/002-000">www.wago.com/770-213/002-000</a>
<b>Item no.770-113</b> Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/770-113">www.wago.com/770-113</a>
<b>Item no.770-213</b> Plug; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/770-213">www.wago.com/770-213</a>
<b>Item no.770-213/035-000</b> Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/770-213/035-000">www.wago.com/770-213/035-000</a>
<b>Item no.770-607</b> 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; black	<a href="http://www.wago.com/770-607">www.wago.com/770-607</a>
<b>Item no.770-606</b> T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	<a href="http://www.wago.com/770-606">www.wago.com/770-606</a>
<b>Item no.770-608</b> 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; outputs on both sides; black	<a href="http://www.wago.com/770-608">www.wago.com/770-608</a>
<b>Item no.770-615</b>	

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T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	<a href="http://www.wago.com/770-615">www.wago.com/770-615</a>
<b>Item no.770-633</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	<a href="http://www.wago.com/770-633">www.wago.com/770-633</a>
<b>Item no.770-634</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black	<a href="http://www.wago.com/770-634">www.wago.com/770-634</a>
<b>Item no.770-635</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; black	<a href="http://www.wago.com/770-635">www.wago.com/770-635</a>
<b>Item no.770-636</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black	<a href="http://www.wago.com/770-636">www.wago.com/770-636</a>
<b>Item no.770-637</b> Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	<a href="http://www.wago.com/770-637">www.wago.com/770-637</a>
<b>Item no.770-638</b> Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	<a href="http://www.wago.com/770-638">www.wago.com/770-638</a>
<b>Item no.770-713</b> Snap-in plug; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/770-713">www.wago.com/770-713</a>
<b>Item no.770-713/007-000</b> Snap-in plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/770-713/007-000">www.wago.com/770-713/007-000</a>
<b>Item no.770-813</b> Plug for PCBs; straight; 3-pole; Cod. A; black	<a href="http://www.wago.com/770-813">www.wago.com/770-813</a>
<b>Item no.770-813/011-000</b> Plug for PCBs; angled; 3-pole; Cod. A; black	<a href="http://www.wago.com/770-813/011-000">www.wago.com/770-813/011-000</a>
<b>Item no.771-9993/006-101</b> pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/771-9993/006-101">www.wago.com/771-9993/006-101</a>
<b>Item no.771-9993/206-101</b> pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/771-9993/206-101">www.wago.com/771-9993/206-101</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>

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**Strain relief**

## Strain relief housing

**Item no.: 770-503**

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

[www.wago.com/770-503](http://www.wago.com/770-503)**Item no.: 770-513**

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

[www.wago.com/770-513](http://www.wago.com/770-513)


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**Optional accessories**
**Mounting**

## Mounting accessories

**Item no.: 770-318**

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black

[www.wago.com/770-318](http://www.wago.com/770-318)**Item no.: 770-338**

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white

[www.wago.com/770-338](http://www.wago.com/770-338)


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**Shield termination**

## Shield termination

**Item no.: 770-523**

Shield connecting plate; 3-pole; for sockets and plugs; silver-colored

[www.wago.com/770-523](http://www.wago.com/770-523)


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**Cover**

## Cover

**Item no.: 770-201**

Lockout cap; 12-pole, separable; for sockets; Plastic; black

[www.wago.com/770-201](http://www.wago.com/770-201)**Item no.: 770-221**

Lockout cap; 12-pole, separable; for sockets; Plastic; white

[www.wago.com/770-221](http://www.wago.com/770-221)


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**Strain relief**

## Strain relief housing

**Item no.: 770-503/023-000**

Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black

[www.wago.com/770-503/023-000](http://www.wago.com/770-503/023-000)**Item no.: 770-503/021-000**

Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black

[www.wago.com/770-503/021-000](http://www.wago.com/770-503/021-000)**Item no.: 770-503/035-000**

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

[www.wago.com/770-503/035-000](http://www.wago.com/770-503/035-000)**Item no.: 770-503/038-000**

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

[www.wago.com/770-503/038-000](http://www.wago.com/770-503/038-000)


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**Item no.: 770-503/032-000**  
Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

[www.wago.com/770-503/032-000](http://www.wago.com/770-503/032-000)

**Item no.: 770-513/038-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

[www.wago.com/770-513/038-000](http://www.wago.com/770-513/038-000)

**Item no.: 770-513/021-000**  
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white

[www.wago.com/770-513/021-000](http://www.wago.com/770-513/021-000)

**Item no.: 770-513/032-000**  
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

[www.wago.com/770-513/032-000](http://www.wago.com/770-513/032-000)

**Item no.: 770-513/035-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

[www.wago.com/770-513/035-000](http://www.wago.com/770-513/035-000)

**Item no.: 770-513/023-000**  
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white

[www.wago.com/770-513/023-000](http://www.wago.com/770-513/023-000)

#### 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)

#### 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)

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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)

## Downloads

### Documentation

#### Bid Text

770-203 X81 - Datei	19 Feb 2019	xml 3.1 kB	Download
770-203 doc - Datei	8 Jun 2015	doc 24.1 kB	Download

## CAD/CAE-Data

### CAD data

2D/3D Models 770-203	URL	Download
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### CAE data

EPLAN Data Portal 770-203	URL	Download
WSCAD Universe 770-203	URL	Download
ZUKEN Portal 770-203	URL	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-203 Socket; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; black	URL	Download
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## Installation Notes

### Conductor termination

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



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

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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).

### Product family

WINSTA® MIDI

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



[Show all products from the family](#)

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