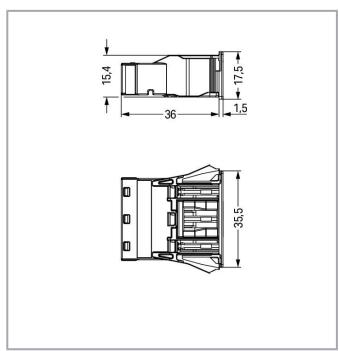
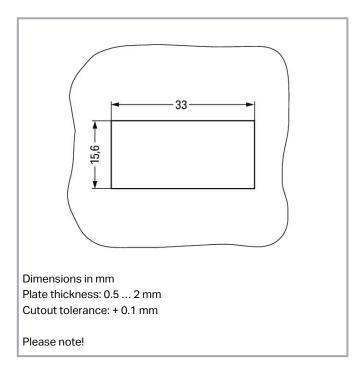
Snap-in socket; 3-pole; Cod. P; 4,00 mm<sup>2</sup>; red

www.wago.com/770-2303









 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.

www.wago.com/770-2303



#### Item description

#### Female connector/socket WINSTA® MIDI with protection against mismating

The WINSTA® MIDI female connector/socket with protection against mismating is the pluggable solution for your use in control cabinets, on PCBs or for lighting connections. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to a huge variety of requirements in seconds. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). WINSTA® MIDI pluggable installation connectors with P coding allow proper realization of an fault-free power supply (UPS). This pluggable installation connector can be employed for a voltage load of up to 25 A. As a result, 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. Thanks to the integrated test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs.

#### WINSTA® MIDI solutions for your electrical installation – protected against mismating 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, even more reliable, and error-free. Using this pre-assembled system decreases assembly times and installation errors at the construction site. Now you can also lower installation expenses without compromising quality and safety: with protection against mismating reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismating
- for automation controllers
- with P coding for use in implementing an uninterruptible power supply
- ready for immediate use
- quick replacement of defective units during ongoing operation

# Data Notes

Note

The snap-in connectors must be relieved of tensile and transverse forces.

A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts.

The wings of the snap-in connectors must not be mechanically

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

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.



stressed for a long period before use (e.g., due to a pre-locking position).

#### **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 m $\Omega$ of contact resistance approx. 0.25 m $\Omega$ contact transition plug/socket

# Connection data

Connection points	6
Total number of potentials	3

#### **Connection 1**

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
	Pusti-iti
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

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG

Hansastr. 27 32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.

21.02.2024 Page 3/10

www.wago.com/770-2303



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 mm² / 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
Width	35.5 mm / 1.398 inches
Height	17.5 mm / 0.689 inches
Depth	37.5 mm / 1.476 inches

#### **Mechanical Data**

Application	EDV (UPS)
Coding	Р
Variable coding	No
Marking	L <del>↓</del> N
Potential marking	L <del>↓</del> 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
Housing sheet thickness	0.5 2 mm / 0.02 0.079 inches
Mounting type	Snap-in flange
Protection type	IP20; When mated: 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 WINSTA® 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

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG

Hansastr. 27 32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

www.wago.com/770-2303



Locking lever	yes
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

Color	red
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.252 MJ
Weight	11.9 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	27-44-06-02
eCl@ss 9.0	27-44-06-02
ETIM 8.0	EC002566
ETIM 7.0	EC002566
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454435059
Customs tariff number	85366990990

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG

Hansastr. 27 32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

www.wago.com/770-2303

Hansastr. 27 32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com



# **Environmental Product Compliance**

RoHS Compliance Status		Compliant,No Exemption		
Namas sala A	Contification			
	Certificates			
General appro	ovals		Certificate	
Logo	Approval	Additional Approval Text	name	
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123228	
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761	
c <b>91</b> 0s	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171	
c <b>91</b> 0s	<b>cURus</b> Underwriters Laboratories Inc.	UL 1059	E 45172	
eclarations of	of conformity and manufacturer's declarations  Approval	Additional Approval Text	Certificate name	
CE	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-	
pprovals for	marine applications			
Logo	Approval	Additional Approval Text	Certificate name	
ABS.	ABS American Bureau of Shipping	-	19- HG1868589- PDA	
DNV DNVCOM/AF	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6	
	LR	IEC 61984	LR22429487TA	
Subject to cha	anges. Please also observe the further product docu	mentation!		
VAGO GmbH	& Co. KG	Do you have any questions about our prod	ducts?	
lanaaatu 07		We are about to be the telescope and at the	40 (571) 007 44000	

21.02.2024 Page 6/10

We are always happy to take your call at +49 (571) 887-44222.





Lloyds Register

# Counterpart

The same	Item no.770-1313 Plug; 3-pole; Cod. P; 4,00 mm²; red	www.wago.com/770-1313
<b>300</b>	Item no.771-9973/006-101  pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. P; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; red	www.wago.com/771-9973 /006-101
	Item no.771-9973/206-101  pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. P; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; red	www.wago.com/771-9973 /206-101

#### Optional accessories

Optional ac	cessories	
Tool		
Operating t	ool	
	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
1	Item no.: 770-383 Operating tool; 3-way; green	www.wago.com/770-383
Cover		
Cover		
400	Item no.: 770-693 Lockout cap; 3-pole; for cutouts; Plastic; white	www.wago.com/770-693
	Item no.: 770-643 Lockout cap; 3-pole; for cutouts; Plastic; black	www.wago.com/770-643
1	Item no.: 770-201 Lockout cap; 12-pole, separable; for sockets; Plastic; black	www.wago.com/770-201
, is hit of the little of the	Item no.: 770-221 Lockout cap; 12-pole, separable; for sockets; Plastic; white	www.wago.com/770-221

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.

www.wago.com/770-2303



# Downloads Documentation

**Bid Text** 

770-2303 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-2303 doc - Datei	2015 Jun 8	doc 23.6 kB	Download

#### CAD/CAE-Data

CAE data

EPLAN Data Portal 770-2303	URL	Download
ZUKEN Portal 770-2303	URL	Download
WSCAD Universe 770-2303	URL	Download
CAD data		
2D/3D Models 770-2303	URL	Download
Asset Administration Shell		
Asset Administration Shell 770-2303	URL	Download

# **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 770-2303 URL Download Snap-in socket; 3-pole; Cod. P; 4,00 mm²; red

#### **Installation Notes**

Conductor termination

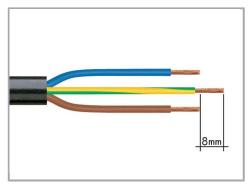
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden

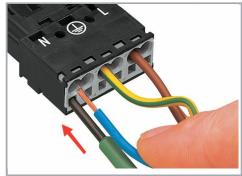
Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.

www.wago.com/770-2303

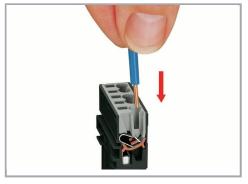




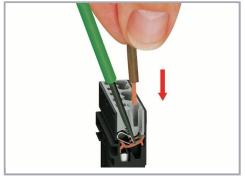
- 1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

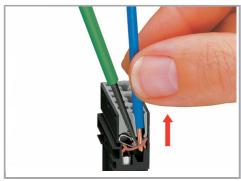


Insert the stripped solid conductor until it hits the backstop.



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!

WAGO GmbH & Co. KG Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.

www.wago.com/770-2303





Seal unused cutout with lockout cap.

# **Product family**

WINSTA® MIDI
Show all products from the family

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