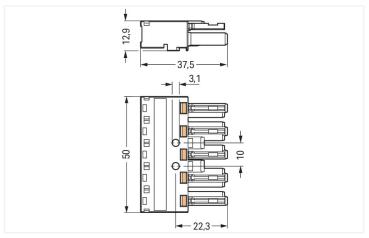
# Data Sheet | Item Number: 770-205 Socket; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

https://www.wago.com/770-205







Dimensions in mm

Female connector/socket WINSTA® MIDI with protection against mismating

The WINSTA® MIDI female connector/socket rated current 25 A supports rapid, correct installation. WAGO pluggable installation connectors are useful when specifications repeat or are planned on a specified grid, for example for installing grid lighting or flush-mount lighting. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector offers touch-proof protection 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!)). General mains applications for almost any domain of use can be realised with WINSTA® MIDI pluggable installation connectors with A coding. The rated current and voltage are important criteria for selecting a pluggable installation connector: They tell us about the product's domains of use. This product has a current rating of 25 A – so it is suitable for high power loads. The WINSTA® MIDI product line allows total flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers customization for meeting an enormous variety of installation requirements.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MIDI

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Now you can also cut installation costs without compromising quality and safety: with marking reduces the need for servicing and prevents unnecessary downtime.

- · pluggable installation connectors with protection against mismating
- · simple circuits
- for any mains application
- · ready to install and use immediately
- quick replacement of defective units during ongoing operation

Electrical data				
Ratings per	IEC	C/EN 60664	l-1	
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	400 V	-	-	
Rated surge voltage	6 kV	-	-	
Rated current	25 A	-	-	
General information				
Note on contact resistance	approx. 1 mΩ c approx. 0.25 m			



Connection data			
Connection points	10	Connection 1	
Total number of potentials	5	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 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 mm² / 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
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	N L1L2L3
Potential marking	N L1L2L3
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 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
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).

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Material data	
Note (material data)	
	Information on material specifications can be found here
Color	black
Cover color	gray
Material group	1
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	0.271 MJ
Weight	15.7 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	4044918252324
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

# Approvals / Certificates

# General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123228
CCA DEKRA Certification B.V.	IEC 61535	NL -84761
cURus Underwriters Laboratories Inc.	UL 1977	E45171
cURus Underwriters Laboratories Inc.	UL 1059	E 45172
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61984	40002889

# Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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# Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

### Downloads

### **Environmental Product Compliance**

Compliance Search
Environmental Product

Compliance 770-205



### Documentation

Bid Text			
770-205	19.02.2019	xml 2.93 KB	$\underline{\downarrow}$
770-205	08.06.2015	doc 23.50 KB	$\underline{\downarrow}$

# CAD/CAE-Data

CAD data

2D/3D Models 770-205



CAE data

EPLAN Data Portal 770-205



WSCAD Universe 770-205



ZUKEN Portal 770-205



### 1 Compatible Products

### 1.1 System counterpart

# 1.1.1 Cable assembly





Item No.: 771-9995/206-101

pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black Item No.: 771-9995/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

https://www.wago.com/770-205



### 1.1.2 Distribution box









### Item No.: 899-631/455-000

Item No.: 899-631/105-000

outputs; Cod. A; MIDI; black

Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; black

### Item No.: 899-681/147-000

Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; white

### Item No.: 899-631/187-000

Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black

### Item No.: 899-631/346-000

Distribution box; Three-phase to singlephase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black

Distribution box; Three-phase to single-

phase current (400 V/230 V); 1 input; 6



### Item No.: 899-631/100-000

Distribution box; Three-phase to singlephase current (400 V/230 V); 1 input; 7 outputs: Cod. A: MIDI: black

# Item No.: 899-631/302-000

Distribution box; Three-phase to singlephase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black

### 1.1.3 Distribution connector



A; 1 input; 3 outputs; black



Item No.: 770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white

# Item No.: 770-621

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

### Item No.: 770-622

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black



3-way distribution connector; 5-pole; Cod.

#### Item No.: 770-640

Item No.: 770-609

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

### 1.1.4 Male connector/plug



Item No.: 770-815/011-000 Plug for PCBs; angled; 5-pole; Cod. A; black

### Item No.: 770-815

Plug for PCBs; straight; 5-pole; Cod. A; black

### Item No.: 770-215

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

# Item No.: 770-415

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



### Item No.: 770-115

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

# Item No.: 770-315

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

### Item No.: 770-715

Snap-in plug; 5-pole; Cod. A; 4,00 mm<sup>2</sup>;

### Item No.: 770-715/007-000

Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

### 1.2 Required Accessories

### 1.2.1 Cover

# 1.2.1.1 Cover



### Item No.: 770-201

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

### Item No.: 770-221

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

https://www.wago.com/770-205



### 1.2.2 Locking system

### 1.2.2.1 Locking system



Item No.: 770-101

Locking lever; for flying leads; for manual operation; black



Item No.: 770-121

Locking lever; for flying leads; for manual operation; white



Item No.: 770-111

Locking lever; for flying leads; for tool operation; black



Item No.: 770-131

Locking lever; for flying leads; for tool operation; white

### 1.2.3 Strain relief

### 1.2.3.1 Strain relief housing

Item No.: 770-505/021-000

11.5 ... 16.5 mm; 71 mm; black





Item No.: 770-515/021-000 Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

000



Strain relief housing; 5-pole; for 2 cables;

Item No.: 770-505/023-000

5.0 ... 9.0 mm; 55 mm; black

Item No.: 770-515/023-000

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white



Strain relief housing; 5-pole; for 1 cable;

Item No.: 770-505

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

Item No.: 770-515

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

# 1.3 Optional Accessories

### 1.3.1 Cover

### 1.3.1.1 Cover



Item No.: 897-2005

Protective cap; Type4; for sockets and plugs; PVC; red

### 1.3.2 Installation

# 1.3.2.1 Mounting accessories



Item No.: 770-321

Snap-in frame; 5-pole; 0.5 ... 2.0 mm; black



Item No.: 770-341

Snap-in frame; 5-pole; 0.5 ... 2.0 mm; whi-



Item No.: 770-320

Snap-in frame; 5-pole; 1.0 ... 3.0 mm; black



Item No.: 770-340

Snap-in frame; 5-pole; 1.0 ... 3.0 mm; whi-

### 1.3.3 Marking

### 1.3.3.1 Marker

Item No.: 770-450/000-006

Marker card; Plastic; blue

Marker card; Plastic; white

Item No.: 770-450





Item No.: 770-450/000-001

Marker card; Plastic; green



Item No.: 770-450/000-012

Marker card; Plastic; orange

Item No.: 770-450/000-005 Marker card; Plastic; red



Item No.: 770-450/000-002 Marker card; Plastic; yellow



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### 1.3.4 Tool

### 1.3.4.1 Operating tool



Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

### 1.3.4.2 Wiring aid



Item No.: 770-100

Wiring aid; 2- to 5-pole; Plastic; orange

### **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.



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.



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw with screwdriver (2.5 mm blade width).

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

Current addresses can be found at::  $\underline{www.wago.com}$ 

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