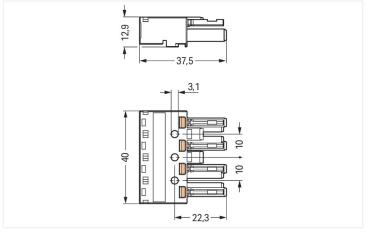
Data Sheet | Item Number: 770-204 Socket; 4-pole; Cod. A; 4,00 mm²; black

https://www.wago.com/770-204







Dimensions in mm

Female connector/socket WINSTA® MIDI with protection against mismating

For signal and power transmission: The *WINSTA*® MIDI female connector/socket with protection against mismating. 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. For greater protection in electrical installations, the pluggable installation connector is provided 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. This pluggable installation connector can be employed for a current load of up to 25 A. Thus, it can also be used for high power loads. The *WINSTA*® MIDI product line offers total flexibility for the installation of applications. With its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers customization for meeting all installation requirements.

WINSTA® MIDI solutions for your electrical installation - protected against mismating and maintenance-free

The WINSTA® Pluggable Connection System is perfectly tailored to the very 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 – with marking from WAGO makes the electrical installation of electrical components significantly easier.

- · pluggable installation connectors with protection against mismating
- · simple circuits
- for any mains application
- · ready to install and use immediately
- · convenient installation and commissioning

Electrical data				
Ratings per	IEC	C/EN 60664	I-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 socket			



Connection data			
Connection points	8	Connection 1	
Total number of potentials	4	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 ² / 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	4
		Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	40 mm / 1.575 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 2/L 1/L'
Potential marking	N 2/L 1/L'
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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Color black Cover color gray Material group I I Insulation material PA66) Flammability class per UL94 V0 Clamping spring material Contact material Contact plating Insulation Material I Contact plating I Contact plating I Contact plating I Contact plating I Contact material I Contact plating I Contact material I Contact material I Contact material I Contact material I Contact plating I Contact material I Contact plating I Contact material I Contact material I Contact plating I Contact material I Contact material I Contact plating I Contact material I Contact plating I Contact material I Contact plating I Contact plati	Material data	
Color Cover color gray Material group Insulation material Polyamide (PA66) Flammability class per UL94 Clamping spring material Contact material Contact plating Contact plating	Note (material data)	
Cover color Material group Insulation material Polyamide (PA66) Flammability class per UL94 Clamping spring material Contact material Contact plating Contact plating		Information on material specifications can be found here
Material group Insulation material Polyamide (PA66) V0 Clamping spring material Contact material Contact plating Tin	Color	black
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	Cover color	gray
Flammability class per UL94 Clamping spring material Chrome-nickel spring steel (CrNi) Contact material Contact plating Tin	Material group	1
Clamping spring material Contact material Contact plating Cont	Insulation material	Polyamide (PA66)
Contact material Copper or copper alloy; surface-treated Contact plating Tin	Flammability class per UL94	V0
Contact plating Tin	Clamping spring material	Chrome-nickel spring steel (CrNi)
	Contact material	Copper or copper alloy; surface-treated
Fire load 0.216 MJ	Contact plating	Tin
	Fire load	0.216 MJ
Weight 12.4 g	Weight	12.4 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	4044918252270
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

General approvals



Approvals / Certificates







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 770-204

Documentation

Bid Text			
770-204	19.02.2019	xml 2.93 KB	$\underline{\downarrow}$
770-204	10.04.2018	docx 14.36 KB	$\underline{\downarrow}$

CAD/CAE-Data

CAD data

2D/3D Models 770-204



EPLAN Data Portal 770-204

WSCAD Universe 770-204

ZUKEN Portal 770-204



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly





Item No.: 771-9994/206-101

pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; black Item No.: 771-9994/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; black

https://www.wago.com/770-204



1.1.2 Distribution connector





h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black



h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black

Item No.: 770-626

T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

Item No.: 770-627

T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

1.1.3 Male connector/plug



Item No.: 770-814/011-000

Plug for PCBs; angled; 4-pole; Cod. A; black



Plug for PCBs; straight; 4-pole; Cod. A; black



Item No.: 770-214

Plug; 4-pole; Cod. A; 4,00 mm²; black



Item No.: 770-114

Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; black

Item No.: 770-714

Item No.: 770-944

Snap-in plug; 4-pole; Cod. A; 4,00 mm²; black

Item No.: 770-714/007-000

Snap-in plug; with direct ground contact; 4-pole; Cod. A; 4,00 mm²; 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

1.2.2 Locking system

1.2.2.1 Locking system





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





Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black

Item No.: 770-514/023-000 Strain relief housing; 4-pole; for 2 cables;

5.0 ... 9.0 mm; 55 mm; white

Item No.: 770-504

Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

No. 10 St. 10

Item No.: 770-514
Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

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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.: 770-319

Snap-in frame; 4-pole; 1.0 ... 3.0 mm; black

Item No.: 770-339

Snap-in frame; 4-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

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 Marker card; Plastic; white

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

1.3.4 Strain relief

1.3.4.1 Strain relief housing



Item No.: 770-504/020-000

Strain relief housing; 4-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

1.3.5 Tool

1.3.5.1 Operating tool



Item No.: 210-719

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

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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!