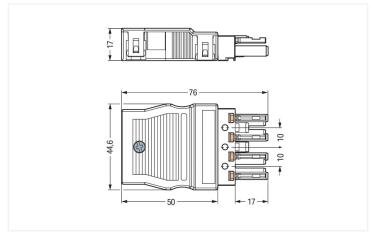
Socket; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; black

https://www.wago.com/770-104

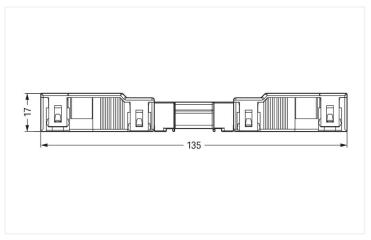






Color: Dlack

Dimensions in mm



Dimensions in mm

Overall length when mated

Female connector/socket WINSTA® MIDI with protection type IP20

For power and signal transmission: The *WINSTA*® MIDI female connector/socket A coding. WAGO pluggable installation connectors can be used when specifications repeat or are distributed on a specific 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 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!)). That results in the fact that users' fingers will never come into contact with electrified elements. The *WINSTA*® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. This pluggable installation connector is designed for a voltage 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 found in a broad range of individual products you can use for quick, easy and maximally flexible installation. The strip length is 55 mm.

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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Choose quality and durability – with marking from WAGO makes the installation of electrical components visibly easier.

- · protection against mismating eliminates errors
- pre-assembled versions
- with A coding for a great number of applications
- exact dimensions
- quick replacement of defective units during ongoing operation

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This item includes:





Item No.: 770-504

1

Item No.: 770-204

1

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

Socket; 4-pole; Cod. A; 4,00 mm²; black

Electrical data			
Ratings per	IEC	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	25 A	-	-

600 V
23 A

General information Note on contact resistance

approx. 1 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/ socket

nection data				
onnection 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 mm² / 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
			Connectable sheathed cable diameter	9 13 mm
		Conductor entry direction to mating direction	0°	
		Strip length (outer insulation)	55 mm	

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	44.6 mm / 1.756 inches
Height	17 mm / 0.669 inches
Depth	76 mm / 2.992 inches

Data Sheet | Item Number: 770-104 https://www.wago.com/770-104



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).
Strain relief	Strain relief housing

Material data	
Note (material data)	Information on material
	specifications can be found here
Color	black
Cover color	gray
Material group	I
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	0.576 MJ
Weight	24.4 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

https://www.wago.com/770-104



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)	25 pcs
Packaging type	Вох
Country of origin	DE
GTIN	4044918252126
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
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61535	40029808

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications







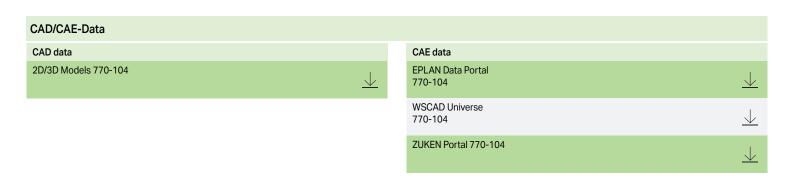
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Llovds Register	IEC 61984	LR22429487TA

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Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 770-104

Documentation			
Bid Text			
770-104	19.02.2019	xml 3.01 KB	$\underline{\downarrow}$
770-104	08.06.2015	doc 23.50 KB	$\underline{\downarrow}$
ausschreiben.de 770-104			\perp



1.1 System counterpart 1.1.1 Cable assembly Itam No: 771-9994/206-101

Item No.: 771-9994/206-101

pre-assembled connecting cable; Eca;
Plug/open-ended; 4-pole; Cod. A; H05VVF 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; H05VVF 4G 1.5 mm²; 1 m; 1,50 mm²; black

1.1.2 Distribution connector



Item No.: 770-944

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

<u>Item No.: 770-945</u>

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

https://www.wago.com/770-104



1.1.3 Male connector/plug









Item No.: 770-814/011-000

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

Item No.: 770-814

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



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

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









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

1.3 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 Marking

1.3.2.1 Marker







Marker card; Plastic; orange





Marker card; Plastic; red

Item No.: 770-450/000-006

Marker card; Plastic; blue

Marker card; Plastic; white

Item No.: 770-450



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

Item No.: 770-450/000-001

Item No.: 770-450/000-012 Item No.: 770-450/000-005

https://www.wago.com/770-104



1.3.3 Tool

1.3.3.1 Operating tool



Item No.: 210-719

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

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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