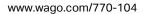
Socket; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; black





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

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

Data sheet | Item number: 770-104 www.wago.com/770-104

Dimensions in mm Overall length when mated

Item description

Female connector/socket WINSTA® MIDI A coding

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI female connector/socket with protection against mismating. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow fast, efficient, error-free installation in numerous possible uses. For greater security 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 live elements. Standard mains applications for almost any domain of use can be realised with WINSTA® MIDI pluggable installation connectors with A coding. This pluggable installation connector

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

www.wago.com/770-104



is designed for a load of up to 25 A. As a result, it can also be used for high power loads. Our *WINSTA*® MIDI product line guarantees total flexibility for the installation of applications. With its Push-in CAGE CLAMP® spring pressure connection technology, it ensures error-free, time-saving installation and offers customization and flexibility for meeting various installation requirements. The strip length is 55 mm.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Choose durability and quality – the WINSTA® MIDI pluggable installation connector with protection against mismating from WAGO makes the installation of electrical components noticeably easier.

- protection against mismating eliminates errors
- for automation controllers
- with A coding for a large number of uses
- custom-engineered solutions
- fast, secure installation

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 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

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?

www.wago.com/770-104



General information

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

Connection data

Connection points	8
Total number of potentials	4

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
	Push-in
Nominal cross-section	4 mm² / 12 AWG
Solid conductor	0.5 4 mm ² / 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
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

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes

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?

www.wago.com/770-104



Marking	N
Potential marking	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 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

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	

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

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?

www.wago.com/770-104



Contact plating	Tin
Fire load	0.576 MJ
Weight	24.4 g

Environmental requirements

Processing temperature	-5 +40 ℃
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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918252126
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	CCA	EN 61535	71-
	DEKRA Certification B.V.		123228
	CCA	IEC 61535	NL -84761
	DEKRA Certification B.V.		
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		
	cURus	UL 1059	E 45172
	Underwriters Laboratories Inc.		
	VDE	EN 61535	40029808
	VDE Prüf- und Zertifizierungsinstitut		

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

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?

Lloyds Register

www.wago.com/770-104



		EN 94994	
	VDE	EN 61984	40002889
	VDE Prüf- und Zertifizierungsinstitut		
Declaration	ns of conformity and manufacturer's declarations		
			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		
Approvals	for marine applications		
			Certificate
Logo	Approval	Additional Approval Text	name
	ABS	-	19-
	American Bureau of Shipping		HG1868589-
			PDA
	DNV GL	-	TAE00001Z6
	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA

Counterpart

Item no.770-114		
Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-114	
Item no.770-214	(======================================	
Plug; 4-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-214	
 Item no.770-626		
T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-626	
Item no.770-627		
T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/770-627	
Item no.770-714	www.waga.com/770.714	
Snap-in plug; 4-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-714	
Item no.770-714/007-000	www.wago.com/770-714/007-	
Snap-in plug; with direct ground contact; 4-pole; Cod. A; 4,00 mm²; black	000	
Item no.770-814	www.wago.com/770-814	
Plug for PCBs; straight; 4-pole; Cod. A; black	www.wago.com/770-814	
Item no.770-814/011-000	www.wago.com/770-814/011-	
Plug for PCBs; angled; 4-pole; Cod. A; black	000	
 Item no.770-944		
h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers;	www.wago.com/770-944	
black		
Item no.770-945		
h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for	www.wago.com/770-945	
flying leads; black		
Item no.771-9994/006-101		

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?

www.wago.com/770-104



pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; black	www.wago.com/771-9994 /006-101
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	www.wago.com/771-9994 /206-101

Required accessories

Cover

Cover		
	Item no.: 770-201	WWW.Waga com/770 20:
	Lockout cap; 12-pole, separable; for sockets; Plastic; black	www.wago.com/770-20
	Item no.: 770-221	www.waga.com/770.22
	Lockout cap; 12-pole, separable; for sockets; Plastic; white	www.wago.com/770-22
Locking le	vers	
Locking	system	
	Item no.: 770-121	www.wago.com/770-12
	Locking lever; for flying leads; for manual operation; white	www.wago.com/770-12
	Item no.: 770-131	
	Locking lever; for flying leads; for tool operation; white	www.wago.com/770-13
	Item no.: 770-101	
	Locking lever; for flying leads; for manual operation; black	www.wago.com/770-10
	Item no.: 770-111	(770.44)
	Locking lever; for flying leads; for tool operation; black	www.wago.com/770-11

Optional accessories

Marking accessories

Marker	
Item no.: 770-450/000-002	www.wago.com/770-450
Marker card; Plastic; yellow	/000-002
Item no.: 770-450/000-001	www.wago.com/770-450
Marker card; Plastic; green	/000-001
Item no.: 770-450/000-005	www.wago.com/770-450
Marker card; Plastic; red	/000-005
Item no.: 770-450	www.wago.com/770-450
Marker card; Plastic; white	www.maga.com#770 400

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

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

www.wago.com/770-104



Item no.: 770-450/000-006 Marker card; Plastic; blue

www.wago.com/770-450 /000-006

Item no.: 770-450/000-012 Marker card; Plastic; orange www.wago.com/770-450

/000-012

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

Cover

Cover

Item no.: 897-2005

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

www.wago.com/897-2005

Downloads

Documentation

Bid Text

770-104 X81 - Datei	2019 年2月19 日	xml 3.1 kB	Download
770-104 doc - Datei	2015 年6月8日	doc 24.1 kB	Download
ausschreiben.de 770-104		URL	Download

CAD/CAE-Data

CAE data

EPLAN Data Portal 770-104	URL	Download
WSCAD Universe 770-104	URL	Download
ZUKEN Portal 770-104	URL	Download
CAD data		
2D/3D Models 770-104	URL	Download

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

www.wago.com/770-104



Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-104

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

Conductor termination
1. Strip length, outer insulation = 35 mm (2- To terminate fine-stranded conductors, open
pole), 55 mm (3- to 5-pole) the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor
2. Strip length = 9 mm until it hits the backstop.
3. Extended ground conductor = 8 mm
Insert the stripped solid conductor until it hits To terminate fine-stranded conductors, open
the backstop. the clamping unit via screwdriver (2.5 mm
blade width) and insert a stripped conductor until it hits the backstop.
and territo the backetop.
Conductor removal
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

www.wago.com/770-104 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 Latch the strain relief housing onto the plug relief housing over the cable prior to /socket. Note the "TOP" inscription. termination. However, the strain relief can be mounted at a later time as well. Prepare strain relief housing by snapping Tighten strain relief screw with screwdriver (2.5 mm blade width). together upper and bottom part. **Product family**

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

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

Data sheet | Item number: 770-104

www.wago.com/770-104



WINSTA® MIDI

Show all products from the family

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

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