

Data sheet | Item number: 770-2115

Snap-in plug; 5-pole; Cod. I; 4,00 mm²; blue

www.wago.com/770-2115



Color:

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

WAGO GmbH & Co. KG
Hansastr. 27
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Phone: +49571 887-0 | Fax: +49571 887-169
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Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Item description

Male connector/plug *WINSTA*® MIDI 5-pole

The *WINSTA*® MIDI male connector/plug with protection type IP20 supports rapid, correct installation. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow fast, efficient, error-free installation in numerous

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applications. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). I coding in blue is used to mark *WINSTA*® MIDI pluggable installation connectors, which are used above all in building automation for activating lighting. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy, flexible, and secure electrical installation.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows error-free installation of cables and components, quickly and reliably. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with protection type IP20 from WAGO.

- pluggable installation connectors with protection against mismatching
- simple circuits
- with I coding for use in building automation (lighting control)
- ready for immediate use
- rapid, structured electrical installation

Data Notes

Note	<p>The snap-in connectors must be relieved of tensile and transverse forces.</p> <p>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.</p> <p>In addition, the punched edge should be on the inside for punched cutouts.</p> <p>The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position).</p>
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Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
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Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) \triangleq 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 Ω of contact resistance approx. 0.25 m Ω contact transition plug/socket
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Connection data

Connection points	10
Total number of potentials	5
PE function	Preceding PE contact

Connection 1

Connection technology	Push-in CAGE CLAMP [®]
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm ² / 12 AWG
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 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 mm ² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	5
Conductor entry direction to mating direction	0°

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Physical data

Pin spacing	10 mm / 0.394 inches
Width	55.5 mm / 2.185 inches
Height	18.5 mm / 0.728 inches
Depth	41.1 mm / 1.618 inches

Mechanical Data

Application	DALI, Lighting Management
Coding	I
Variable coding	No
Marking	DA+ DA- L \perp N
Potential marking	DA+ DA- L \perp 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)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All <i>WINSTA</i> [®] 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	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).

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Material Data

Note (material data)

Information on material specifications can be found here

Color	blue
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
Fire load	0.54 MJ
Weight	18.6 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
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143375887
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Certificate

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Logo	Approval	Additional Approval Text	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 Zertifizierungsinstitut	EN 61535	40029808

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1868589- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart

Item no.770-1105 Socket; 5-pole; Cod. I; 4,00 mm ² ; blue	www.wago.com/770-1105
Item no.770-1105/022-000 Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm ² ; blue	www.wago.com/770-1105/022-000
Item no.771-9985/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. I; H05VV-F 5G 1.5 mm ² ; 1 m; 1,50 mm ² ; blue	www.wago.com/771-9985/006-101
Item no.771-9985/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm ² ; 1 m; 1,50 mm ² ; blue	www.wago.com/771-9985/106-101

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Optional accessories

Cover

Cover		
Item no.: 770-695 Lockout cap; 5-pole; for cutouts; Plastic; white		www.wago.com/770-695
Item no.: 770-645 Lockout cap; 5-pole; for cutouts; Plastic; black		www.wago.com/770-645
Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow		www.wago.com/770-360

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

Downloads

Documentation

Bid Text

770-2115 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
770-2115 doc - Datei	2015 年6月8日	doc 23.6 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-2115	URL	Download
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CAE data

EPLAN Data Portal 770-2115	URL	Download
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WSCAD Universe 770-2115	URL	Download
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ZUKEN Portal 770-2115	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-2115

URL

Download

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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

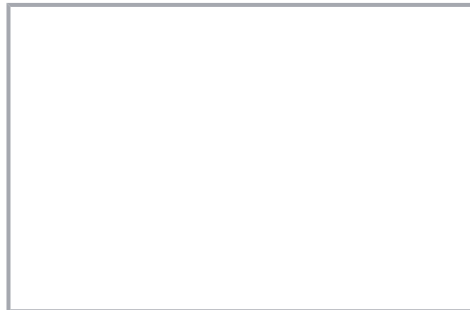
3. Extended ground conductor = 8 mm



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

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To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.



Seal unused cutout with lockout cap.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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