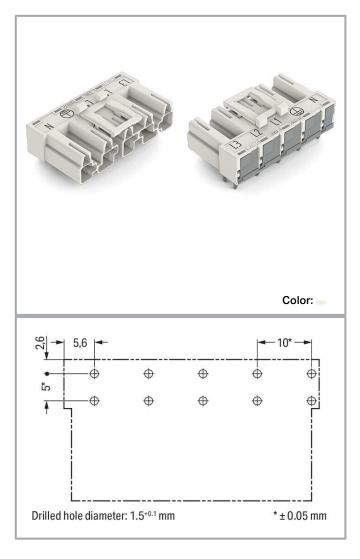
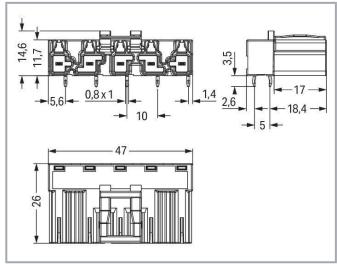
Plug for PCBs; angled; 5-pole; Cod. A; white

www.wago.com/770-835/011-000







# Item description

## Male connector/plug WINSTA® MIDI with protection against mismating

The WINSTA® MIDI male connector/plug with locking latch saves money and space thanks to its compact dimensions. Our large number of pluggable PCB connectors with various insertion directions and operating variants offers you the right solution for your application at any time. For

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

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greater security in electrical installations, the pcb connectors is equipped with mechanical protection against mismating. Thanks to the color coding and mechanical A coding of WINSTA® MIDI pcb connectors, you can clearly distinguish different circuits. This pcb connectors can be used for a voltage load of up to 25 A. Therefore, pcb connectors can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy, secure, tailored 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 perfectly tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismating from WAGO.

- effective protection against mismating
- for automation controllers
- with A coding for a great number of uses
- quick replacement of defective units during ongoing operation

# 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

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## **General information**

Note on contact resistance	approx. 1 m $\Omega$ of contact resistance
	approx. $0.25 \text{ m}\Omega$ contact transition plug/socket

#### Connection data

Total number of potentials	5
Number of levels	1
PE function	Preceding PE contact

## Connection 1

Pole number	5
-------------	---

# Physical data

Pin spacing	10 mm / 0.394 inches
Width	47 mm / 1.85 inches
Height	18.1 mm / 0.713 inches
Height from the surface	14.6 mm / 0.575 inches
Depth	26 mm / 1.024 inches
Solder pin length	3.5 mm
Solder pin dimensions	1 x 0.8 mm
Drilled hole diameter with tolerance	1.5 <sup>(-0.1</sup> <sup>+0.1)</sup> mm

## **Mechanical Data**

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L3 L2 L1
Potential marking	L3 L2 L1
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
Design	angled

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# Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
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
Mating direction to the PCB	0°
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).

## **PCB** contact

PCB contact	тнт
Solder pin arrangement	2 in-line solder pins/pole
Number of solder pins per potential	2

## Material data

Note (material data)

Information on material specifications can be found here

Color	white
Coloi	write
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	0.233 MJ
Weight	10.9 g

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## **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
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	PL
GTIN	4044918524674
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	IEC 61535	NL -84761
	DEKRA Certification B.V.		
	CCA	EN 61535	71-
KEMA	DEKRA Certification B.V.		123228
c <b>91</b> 0	cURus Underwriters Laboratories Inc. S	UL 1977	E45171
	cURus	UL 1059	E 45172

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

Underwriters Laboratories Inc.

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Cartificata





Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity	-	-
$C \in$	WAGO GmbH & Co. KG		
Approvals 1	or marine applications		
			Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	-	19-
TA TANKO THE	American Bureau of Shipping		HG1868589-
			PDA
AND PROPERTY.	DNV GL	-	TAE00001Z6
DNV	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA
810	Lloyds Register		

# Counterpart

	Item no.770-125 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770-125	
	Item no.770-225 Socket; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770-225	
	oocket, o pole, ood. A, 4,00 mm , write		
(A)	Item no.770-425	www.wago.com/770-425	
Service of the	Socket; 5-pole; Cod. A; 4,00 mm²; white	ŭ	
	Item no.770-325		
	Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770-325	
	Item no.771-9995/106-102		
		www.wago.com/771-9995	

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pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 /106-102 m; 1,50 mm²; white

Item no.771-9995/006-102

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

www.wago.com/771-9995 /006-102

# Required accessories

#### Cover

Cover



Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

#### Optional accessories

#### Coding

Coding



Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

# Downloads CAD/CAE-Data

#### CAD data

2D/3D Models 770-835/011-000 URL Download

#### **CAE** data

 EPLAN Data Portal 770-835/011-000
 URL
 Download

 ZUKEN Portal 770-835/011-000
 URL
 Download

 EPLAN Data Portal 770-835/011-000
 URL
 Download

#### **PCB** Design

Symbol and Footprint 770-835/011-000

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

#### Supported formats:

Accel EDA 14 & 15

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**URL** 

Download

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- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

#### **Asset Administration Shell**

Asset Administration Shell 770-835/011-000 URL Download

## **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 770-835/011-000 URL Download Plug for PCBs; angled; 5-pole; Cod. A; white

#### Installation Notes

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# **Product family**

WINSTA® MIDI

Show all products from the family

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