

## Data sheet | Item number: 891-8993/105-302

pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A;  
3 m; 1,00 mm<sup>2</sup>; white

[www.wago.com/891-8993\\_105-302](http://www.wago.com/891-8993_105-302)



### Item description

#### Cable assembly **WINSTA®** MINI with protection against mismating

The **WINSTA®** MINI cable assembly with protection type IP40 is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to an enormous variety of requirements in no time flat. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector is protected against ingress by solid granular objects with a diameter below 1 mm in accordance with protection type IP40. The **WINSTA®** MINI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. **WINSTA®** MINI satisfies the demand for miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for example, since due to LED technology, these offer significantly less space for the connection technology. According to the European CPR, the fire class of the cables used in construction is decisive for building safety, too. For buildings with medium-level safety requirements, cable assemblies with fire class E are suitable.

#### Pluggable connections instead of screw connections – cable assemblies from WAGO

The cable assembly is provided with a socket and a free end. The **WINSTA®** Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and errors during installation at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with **WINSTA®** MINI pluggable installation connectors with strain relief hosting from WAGO.

- protection against mismating eliminates errors
- easy tool-free operation, a wide range of coding options
- with A coding for use in many general mains applications
- exact dimensions

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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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- rapid, structured electrical installation

## Data

### Notes

Note	Cables with a different fire class can be found in the eShop.
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## Electrical data

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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## IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	10 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

## Ratings per UL

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 5 A and voltages up to 600 V. For further information, please contact your local sales office.
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## Connection data

Total number of potentials	3
PE function	Preceding PE contact
Conductor preparation	ultrasonically tip-bonded

## Connection 1

Strip length	9 mm / 0.35 inch
Number of poles	3
Sheathed cable diameter	6.3 ... 8 mm
Wire cross-section	1 mm <sup>2</sup>
Strip length (outer insulation)	40 mm

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Connection type	Socket - Free end
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## Physical data

Pin spacing	4.4 mm / 0.173 inch
Total length	3 m

## Mechanical data

Application	General mains applications
Coding	A
Variable coding	No
Marking	L $\perp$ N
Potential Marking	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	when locked: > 80N
Unmating force of a plug-in connection	when unlocked: approx. 20 ... 70 N (depending on pole number)
Number of mating cycles	200, without resistive load
Connection type	Socket - free end
Type of pre-assembled cable	Connecting cable
Cable type	H05VV-F 3G1
Protection type	IP40

## Plug-in connection

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

## Material data

Note (material data)	Information on material data can be found here
Color	white
Insulation material	Polyamide (PA66)
Fire class per EN 50575	E <sub>ca</sub>

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Contact material	Copper or copper alloy; surface-treated
Fire load	89.755 MJ
Connector color	white
Printing color of mating face	black
Strain relief color	white
Sheathed cable color	white
Printing color of sheathed cable	black
Halogen-free	No
Sheath material	PVC
Weight	225.8 g
Copper weight of the pipe	0.029 kg/m

### Environmental requirements


Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	PVC cable for temperatures ≤ 70 °C (including halogen-free) Insulating parts for temperatures ≤ 105 °C

### Commercial data

PU (SPU)	1 Stück
Packaging type	unpacked
Country of origin VKOrg Germany	PL
GTIN	4055143395922
Customs tariff number VKOrg Germany	85444290900

### Approvals / Certificates

#### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	NTR NL-7823
	KEMA/KEUR DEKRA Certification B.V.	EN 61535	71-112995

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## Required accessories

### Locking levers



Locking system		
	<b>Item no.: 890-111</b> Locking lever; for flying leads; for tool operation; black	<a href="http://www.wago.com/890-111">www.wago.com/890-111</a>
	<b>Item no.: 890-101</b> Locking lever; for manual operation; black	<a href="http://www.wago.com/890-101">www.wago.com/890-101</a>
	<b>Item no.: 890-121</b> Locking lever; for manual operation; white	<a href="http://www.wago.com/890-121">www.wago.com/890-121</a>
	<b>Item no.: 890-131</b> Locking lever; for flying leads; for tool operation; white	<a href="http://www.wago.com/890-131">www.wago.com/890-131</a>

## Optional accessories

### Cover

Other		
	<b>Item no.: 897-2001</b> Protective cap; Type1; for sockets and plugs; PVC; red	<a href="http://www.wago.com/897-2001">www.wago.com/897-2001</a>

### Mounting

Mounting accessories		
	<b>Item no.: 890-310</b> Mounting carrier; 2- to 5-pole; for flying leads; black	<a href="http://www.wago.com/890-310">www.wago.com/890-310</a>
	<b>Item no.: 890-311</b> Mounting carrier; 2- to 5-pole; for flying leads; white	<a href="http://www.wago.com/890-311">www.wago.com/890-311</a>

## Downloads

### Documentation

#### Bid Text

891-8993/105-302 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
891-8993/105-302 doc - Datei	2014 Nov 26	doc 24.6 kB	Download

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## CAD files

### CAE data

WSCAD Universe 891-8993/105-302	URL	Download
WSCAD Universe 891-8993/105-302	URL	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 891-8993/105-302	URL	Download
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## Installation Notes

## Product family

### WINSTA® MINI

[Show all products from the family](#)

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