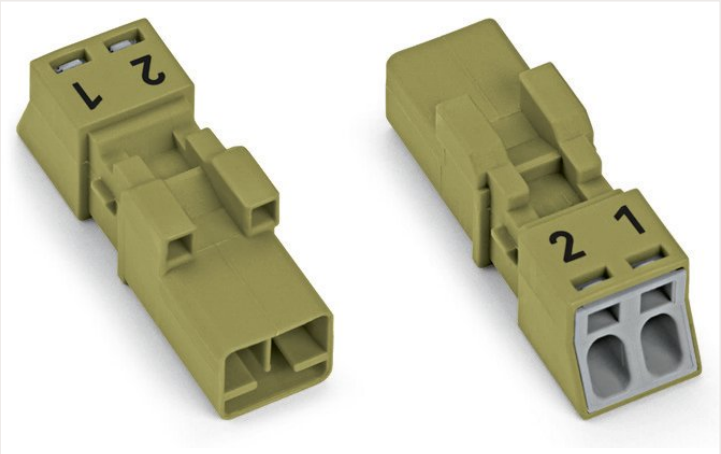
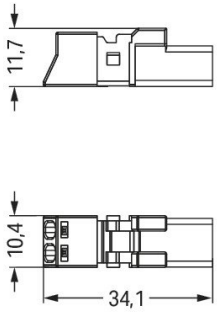
Data sheet | Item number: 890-272

Plug; 2-pole; 1,50 mm²; light green

https://www.wago.com/890-272



Color: light green



Dimensions in mm

Male connector/plug *WINSTA*® MINI with protection against mismating

The *WINSTA*® MINI male connector/plug rated current 16 A allows installation of fine-stranded and solid conductors. WAGO pluggable installation connectors are used when requirements repeat or are planned on a defined grid, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. B coding enables the *WINSTA*® MINI pluggable installation connectors to be used for application control in automation, mechanical engineering and robotics. Particularly if only limited space is available, our smallest pluggable connection system, *WINSTA*® MINI, conveniently displays its strengths. It saves space, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the installation is low-maintenance and requires no screw connections.

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 allows error-free installation of cables and components, quickly and reliably. Choose durability and quality – the *WINSTA*® MINI pluggable installation connector with protection against mismating from WAGO makes the electrical installation of electrical components substantially easier.

- pluggable installation connectors with protection against mismating
- consistent IP40 protection
- with B coding for controllers, for example sun blinds and lighting fixtures
- ready for immediate use
- quick replacement of defective units during ongoing operation

Notes

Variants:	Other pole markings Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.

Electrical data

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

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	16 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.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	14 A

Connection data

Total number of connection points	2
Total number of potentials	2

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	1.5 mm²
Solid conductor	0.25 … 1.5 mm² / 22 … 16 AWG
Solid conductor; push-in termination	0.75 … 1.5 mm² / 20 … 16 AWG
Stranded conductor	0.25 … 1 mm² / 22 … 18 AWG
Fine-stranded conductor	0.25 … 1.5 mm² / 22 … 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 0.75 mm² / 22 … 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 … 0.75 mm² / 22 … 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm² / 20 AWG
Strip length	9 mm / 0.35 inch
Pole number	2
Conductor entry direction to mating direction	0 °

Physical data

Pin spacing	4.4 mm / 0.173 inch
Width	10.4 mm / 0.409 inch
Height	11.7 mm / 0.461 inch
Depth	34.1 mm / 1.343 inch

Mechanical data

Application	Control technology
Coding	B
Variable coding	No
Marking	2 1
Potential marking	2 1
Mating force of a plug-in connection	approx. 20 … 70 N (depending on pole number)
Retention force of a plug-in connection	Locked:
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; IP40 when mated with strain relief housing

Continued on next page

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
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).

Material data

Note (material data)	Information on material data can be found here
Color	light green
Cover color	gray
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Fire load	0.056 MJ
Weight	2.5 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	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 7.0	EC002560
ETIM 6.0	EC002560
PU (SPU)	50 Stück
Packaging type	Box
Country of origin VKOrg Germany	PL
GTIN	4055143499637
Customs tariff number VKOrg Germany	85366990990

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Approvals / Certificates

Country specific Approvals

Approval	Standard	Certificate name
CB DEKRA Certification B.V.	IEC 61984	NL-64351
CB DEKRA Certification B.V.	EN 61984	71-112993
KEMA/KEUR DEKRA Certification B.V.	EN 60320	2148952.04

Ship Approvals

Approval	Standard	Certificate name
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
LR Lloyds Register	EN 61535	08/20047 (E2)

UL-Approvals

Approval	Standard	Certificate name
cURus Underwriters Laboratories Inc.	UL 1977	E45171

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-272

Documentation

Bid Text

890-272	19.02.2019	xml 2.98 KB
890-272	08.06.2015	doc 23.50 KB

CAD/CAE-Data

CAD data

2D/3D Models 890-272

CAE data

WSCAD Universe 890-272

ZUKEN Portal 890-272

Continued on next page

1 Compatible products

1.1 Counterpart

1.1.1 Cable assembly

Item no.: 891-8992/105-105
pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm²; 1 m; 1,00 mm²; light green

Item no.: 891-8992/005-105
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. B; Control cable 2 x 1.0 mm²; 1 m; 1,00 mm²; light green

1.1.2 Distribution connector

Item no.: 890-1602
T-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; light green

Item no.: 890-1702
T-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; light green

1.1.3 Female connector/socket

Item no.: 890-762
Snap-in socket; 2-pole; Cod. B; 1,50 mm²; light green

Item no.: 890-862/011-000
Socket for PCBs; angled; 2-pole; Cod. B; light green

Item no.: 890-862
Socket for PCBs; straight; 2-pole; Cod. B; light green

Item no.: 890-262
Socket; 2-pole; Cod. B; 1,50 mm²; light green

1.2 Required accessories

1.2.1 Locking system

1.2.1.1 Locking system

Item no.: 890-111
Locking lever; for flying leads; for tool operation; black

Item no.: 890-131
Locking lever; for flying leads; for tool operation; white

Item no.: 890-101
Locking lever; for manual operation; black

Item no.: 890-121
Locking lever; for manual operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing

Item no.: 890-502/342-000
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 … 8.2 mm; 17.5 mm; black

Item no.: 890-512/342-000
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 … 8.2 mm; 17.5 mm; white

Item no.: 890-502
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 … 8.2 mm; 30 mm; black

Item no.: 890-512
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 … 8.2 mm; 30 mm; white

1.3 Optional accessories

1.3.2 Installation

1.3.2.1 Mounting accessories

Item no.: 890-310
Mounting carrier; 2- to 5-pole; for flying leads; black

Item no.: 890-311
Mounting carrier; 2- to 5-pole; for flying leads; white

1.3.3 Tool

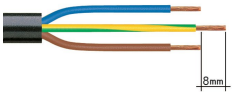
1.3.3.1 Operating tool

Item no.: 890-382
Operating tool; 2-way; green

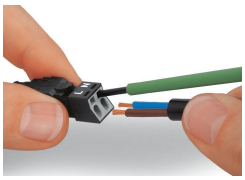
Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation notes

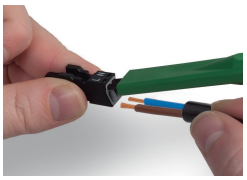
Conductor termination



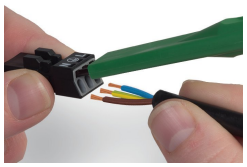
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.
Terminate solid conductors by simply pushing them in.

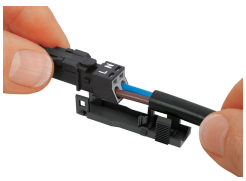


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.
Terminate solid conductors by simply pushing them in.



To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.
Terminate solid conductors by simply pushing them in.

Installation



Latch the wired connector into the base of the strain relief housing.

Push down strain relief clamp by hand.

Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.

Latch the top of the strain relief housing.

The printed marking of the connector is clearly visible in the openings of the strain relief housing.

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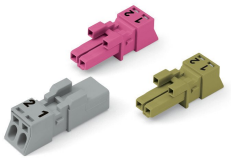
Mismating protection



B-coded connectors with different colors can be plugged together.

Important note:
Different colors and/or pole markings are used for circuit identification.
Only connectors of the same color and same pole marking must be plugged together.

B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.