

## Data sheet | Item number: 890-102

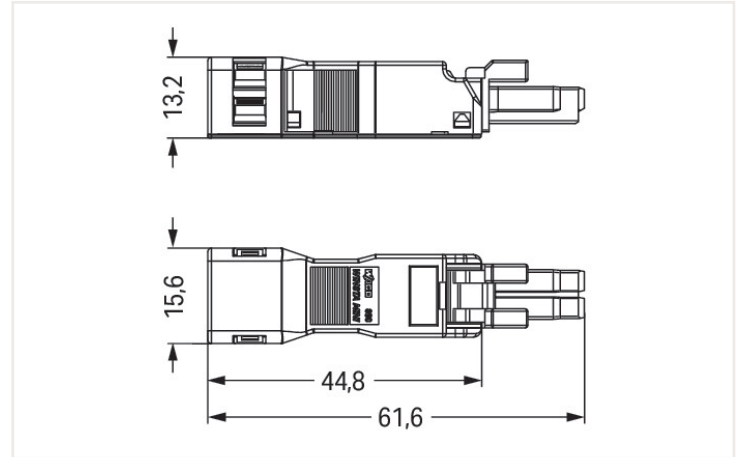
Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm<sup>2</sup>; black



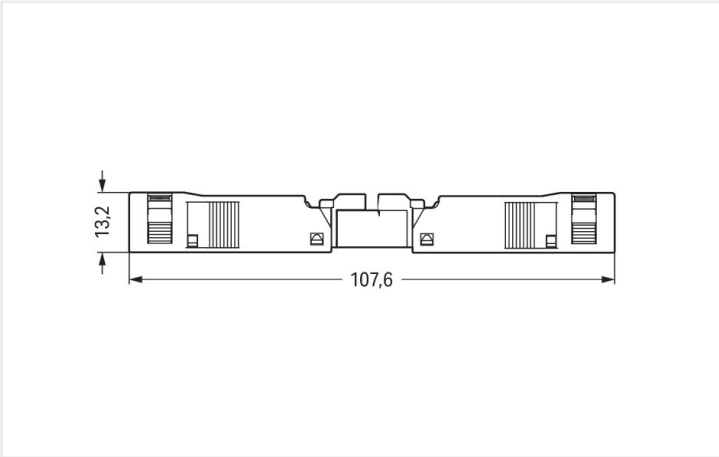
<https://www.wago.com/890-102>



Color: ■ black



Dimensions in mm



Dimensions in mm

Overall length when mated

Female connector/socket *WINSTA*® MINI rated current 16 A

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MINI female connector/socket with protection against mismatching. WAGO pluggable installation connectors are useful when specifications repeat or are distributed on a defined pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected in accordance with protection type IP40. Users' hands and tools will never come into contact with live elements. Standard mains applications for almost any domain of use can be implemented with *WINSTA*® MINI pluggable installation connectors with A coding. *WINSTA*® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is very good for lights, for instance, since due to LED technology, these offer much less space for the connection technology. A range up to 32 mm can be used for the strip length.

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. Now you can also reduce installation expenses without compromising safety and quality: The *WINSTA*® MINI pluggable installation connector with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- easy tool-free operation, a wide range of coding options
- with A coding for a great number of uses
- ready to install and use immediately
- rapid, structured electrical installation

## Item includes



Item no.: 890-202

1

Item no.: 890-502

1

Socket; 2-pole; Cod. A; 1,50 mm<sup>2</sup>; black

Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; black

## Electrical data

## 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

## General

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

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 mm <sup>2</sup> / 16 AWG
Solid conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Solid conductor; push-in termination	0.75 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Stranded conductor	0.25 ... 1 mm <sup>2</sup> / 22 ... 18 AWG
Fine-stranded conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm <sup>2</sup> / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	2
Connectable sheathed cable diameter	3.8 ... 8.2 mm
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	32 mm

### Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	15.6 mm / 0.614 inches
Height	13.2 mm / 0.52 inches
Depth	61.6 mm / 2.425 inches

### Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No
Marking	L N
Potential marking	L N
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	IP40

### 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

Note (material data)	<a href="#">Information on material data can be found here</a>
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
Contact plating	Tin
Fire load	0.145 MJ
Weight	5.7 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

## 1 Compatible products

### 1.1 System counterpart

#### 1.1.1 Cable assembly



**Item no.: 891-8992/205-101**  
pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; black



**Item no.: 891-8992/005-101**  
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; black

#### 1.1.2 Distribution connector



**Item no.: 890-1634**  
h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black



**Item no.: 890-1636**  
h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black



**Item no.: 890-1606**  
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black



**Item no.: 890-1615**  
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

#### 1.1.3 Male connector/plug



**Item no.: 890-812/011-000**  
Plug for PCBs; angled; 2-pole; Cod. A; black



**Item no.: 890-812**  
Plug for PCBs; straight; 2-pole; Cod. A; black



**Item no.: 890-212**  
Plug; 2-pole; 1,50 mm<sup>2</sup>; black



**Item no.: 890-112**  
Plug; with strain relief housing; 2-pole; 1,50 mm<sup>2</sup>; black



**Item no.: 890-212/342-000**  
Plug; with strain relief housing; 2-pole; 1,50 mm<sup>2</sup>; black



**Item no.: 890-712**  
Snap-in plug; 2-pole; Cod. A; 1,50 mm<sup>2</sup>; black

## 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