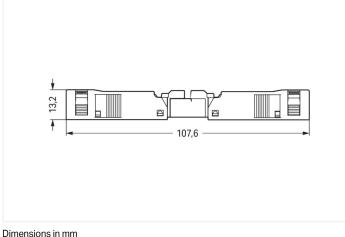


Color: 🔳 black

Dimensions in mm



Overall length when mated

Female connector/socket *WINSTA®* MINI with protection type IP40

The *WINSTA®* MINI female connector/socket with protection against mismating is the pluggable solution for your application in control cabinets, on PCBs or for lighting connections. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in no time flat. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector is protected in accordance with protection type IP40. Users' hands and tools will never come into contact with live elements. The *WINSTA®* MINI pluggable installation compact dimensions, our *WINSTA®* MINI pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very restricted spaces, i.e., for installations when very little room is available. The strip length is 32 mm.

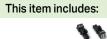
WINSTA® MINI solutions for your electrical installation – protected against mismating and maintenance-free

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also cut installation costs without compromising quality and safety: with protection type IP40 eliminates the need for servicing and prevents unnecessary downtime.

- · 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
- custom-engineered solutions
- fast, secure installation

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







 1
 Item No.: 890-502
 1

 3
 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 60664 | -1 |
|----------------------|-------|-----------|----|
| Overvoltage category | Ш | Ш | Ш |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 250 V | - | - |
| Rated surge voltage | 4 kV | - | - |
| Rated current | 16 A | - | - |

2

2

| Approvals per | UL 1977 |
|---------------|---------|
| Rated voltage | 600 V |
| Rated current | 14 A |

General information

Note on contact resistance

approx. 1 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/ socket

Connection data

Connection points Total number of potentials

| Connection 1 | |
|--|---------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 1.5 mm² / 16 AWG |
| 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 uninsula- ted 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 inches |
| Pole number | 2 |
| Connectable sheathed cable diameter | 3.8 8.2 mm |
| Conductor entry direction to mating di- rection | 0 ° |
| Strip length (outer insulation) | 32 mm |
| | |

Data Sheet | Item Number: 890-102 https://www.wago.com/890-102



| 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 | Α |
| Variable coding | No |
| Marking | LN |
| Potential marking | LN |
| 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 |
| 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 devi- ces, all types of PCB and distribution connectors) are factory-equipped with locking le- vers 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) | |
| | Information on material specifications can be found here |
| Color | black |
| Cover color | gray |
| Material group | 1 |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | VO |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 0.216 MJ |
| Weight | 5.7 g |

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



| 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 |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4045454231729 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|--|-----------|------------------|
| CCA DEKRA Certification B.V. | EN 61535 | 71-123231 |
| CCA DEKRA Certification B.V. | IEC 61535 | NL-85020 |
| cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| .ABS. | CHR MORED MODEL |
|---------------|-----------------|
| | |
| TAN RONED PRO | DIVICOMUNE |

R

| BUNED IN DIVICOMOR | Solution Control of Co | |
|---|--|------------------|
| Approval | Standard | Certificate Name |
| ABS American Bureau of Ship- ping | Steel Vessel Rules | 19-HG1869855-PDA |
| DNV GL Det Norske Veritas, Ger- manischer Lloyd | - | TAE00001Z6 |
| LR Lloyds Register | EN 61535 | 08/20047 (E2) |

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



| I | Downloads |
|---|---|
| I | Environmental Product Compliance |
| | Compliance Search |
| | Environmental Product Compliance 890-102 |

Documentation

| Bid Text | | | |
|----------|------------|-----------------|--------------|
| 890-102 | 08.06.2015 | doc 23.00 KB | \downarrow |
| 890-102 | 19.02.2019 | xml 3.03 KB | \downarrow |

| CAD/CAE-Data | /CAE-Data | | |
|----------------------|------------------------------|--|--|
| CAD data | CAE data | | |
| 2D/3D Models 890-102 | EPLAN Data Portal 890-102 | | |
| | WSCAD Universe 890-102 | | |
| | ZUKEN Portal 890-102 | | |



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

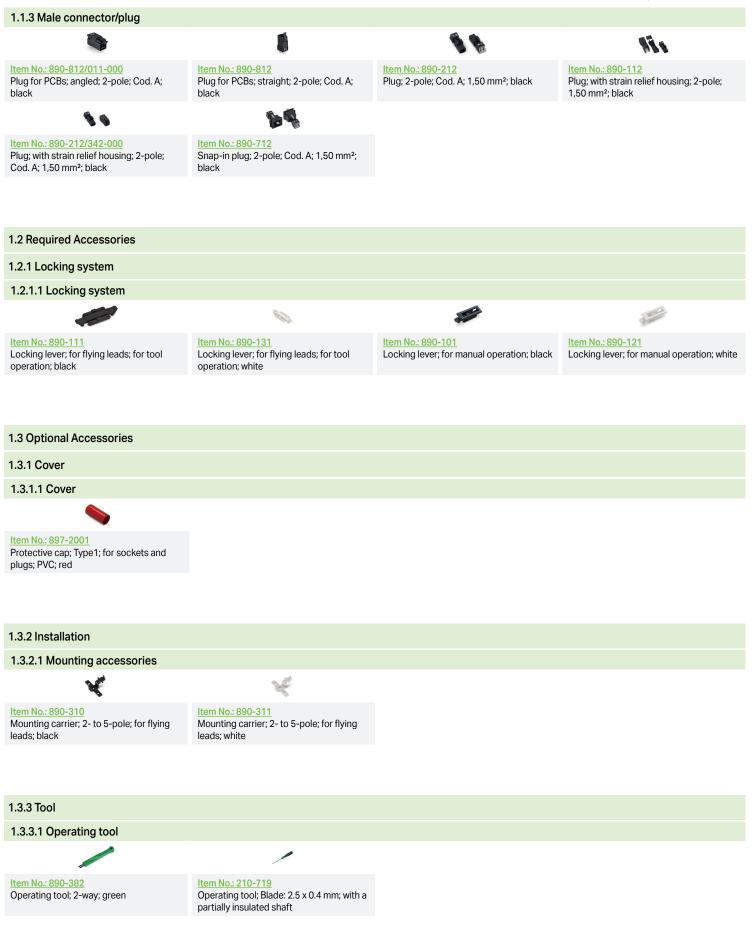
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

Item No.: 890-1615

T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

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



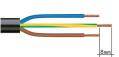


https://www.wago.com/890-102



Installation Notes

Conductor termination



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

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.

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