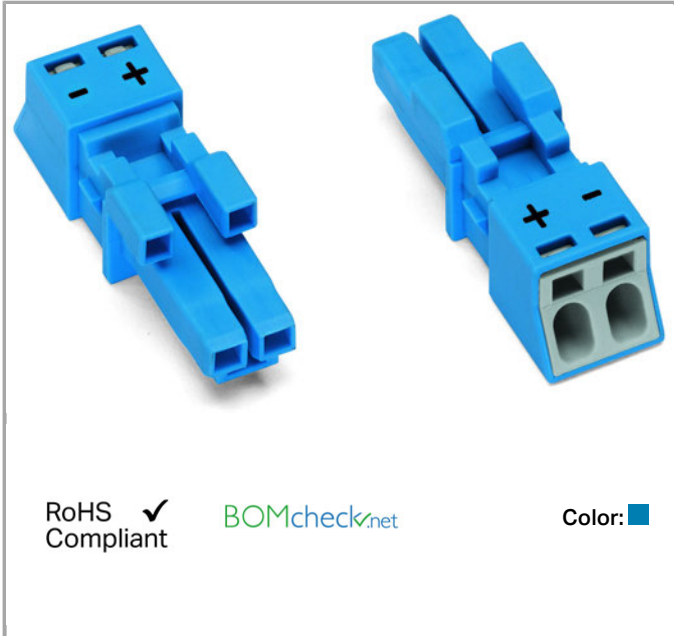


## Data sheet | Item number: 890-1102

Socket; 2-pole; Cod. I; 1,50 mm<sup>2</sup>; blue

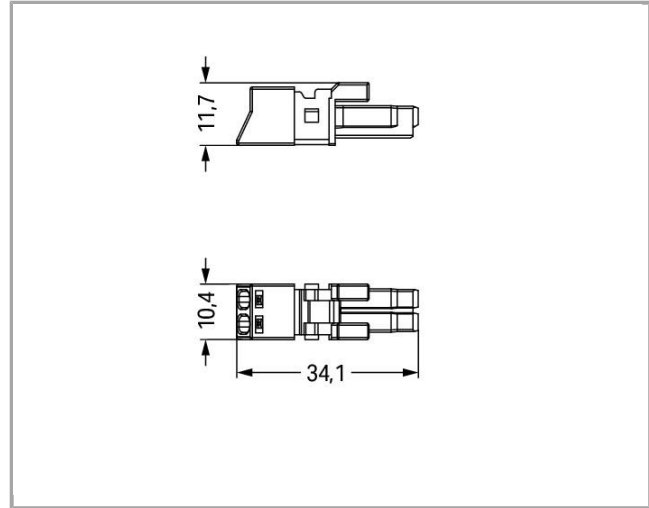
890-1102



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:



### Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Compact design with 4.4 mm pole spacing

### Note:

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).

### Safety information 1:

Application note for the U.S. market (USR): 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.

### Data

#### Electrical data

Note on Contact Resistance

approx. 1m $\Omega$  contact resistance approx. 0.25m $\Omega$  contact transition  
plug/socket



### Ratings per IEC/EN 60664-1

|                                 |       |
|---------------------------------|-------|
| Rated voltage (III / 3)         | 250 V |
| Rated impulse voltage (III / 3) | 4 kV  |
| Rated current                   | 16 A  |

### Approvals per UL 1977

|   |       |
|---|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 14 A  |

### Connection data

|   |                                    |                           |        |
|---|------------------------------------|---------------------------|--------|
| Connection technology                                       | Push-in CAGE CLAMP®                |                           |        |
| Actuation type  | Operating tool<br>Push-in          |                           |        |
| Nominal cross section                                       | 1.5 mm <sup>2</sup>                |                           |        |
| 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 ferrule with plastic collar    | 0.25                               | 0.75 mm <sup>2</sup> / 22 | 20 AWG |
| Fine-stranded conductor with ferrule without plastic collar | 0.25                               | 0.75 mm <sup>2</sup> / 22 | 20 AWG |
| Strip length  | 9 mm / 0.35 inch                   |                           |        |
| Note (strip length)   | see also packaging or instructions |                           |        |
| Total number of connection points                           | 2                                  |                           |        |
| Total number of potentials                                  | 2                                  |                           |        |
| Conductor entry direction to mating direction               | 0°                                 |                           |        |
| No. of poles  | 2                                  |                           |        |

### Geometrical 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

|   |   |
|---|---|
| Coding                                  | I   |
| Mating force of a plug-in connection    | approx. 20 70 N (depending on pole number)                |
| Retention force of a plug-in connection | When locked: > 80 N                                       |
| 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                               |

100, with resistive load  $I_N = 16A$ , tested (1.5mm<sup>2</sup>/AWG 16)

|                          |  |
|--------------------------|--|
| Marking                  | + -  |
| Protection class         | IP20   |
| Note on protection class | Only in mated condition with strain relief housing (These compact connectors are not designed for use in open, easily accessible areas.) |
| Potential marking        | + -  |

### Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for conductors          |
| Mismating protection               | Yes                     |
| Locking of plug-in connection      | locking lever           |
| Locking lever                      | no                      |

### Material Data

|                             |   |
|-----------------------------|---|
| Color                       | blue                                    |
| Insulating material         | Polyamide 66 (PA 66)                    |
| Flammability class per UL94 | V0                                      |
| Clamping spring material    | Chrome nickel spring steel (CrNi)       |
| Contact material            | Copper or copper alloy, surface-treated |
| Fire load                   | 0.052 MJ                                |
| Weight                      | 2.6 g                                   |

### Environmental Requirements

|  |   |
|--|---|
| Processing temperature                 | -5 +40 °C                                       |
| Continuous operating temperature       | -35 +85 °C                                      |
| Note on Continuous Service Temperature | Insulating parts for temperatures $\leq 105$ °C |

### Commercial data

|                    |               |
|--------------------|---------------|
| Product Group      | 20 (WINSTA)   |
| Country of origin  | PL            |
| GTIN               | 4055143548472 |
| Customs Tariff No. | 85366990990   |

### Approvals / Certificates

#### Radio-Approvals




Certificate

| Logo | Approval                        | Additional Approval Text | name     |
|------|---------------------------------|--------------------------|----------|
|      | CCA<br>DEKRA Certification B.V. | IEC 61535                | NL-49482 |


## Country specific Approvals

| Logo  | Approval   | Additional Approval Text | Certificate name         |
|---|--|--------------------------|--------------------------|
|   | ABS<br>American Bureau of Shipping               | Steel Vessel Rules       | 14-<br>HG1241513-<br>PDA |
|   | CCA<br>DEKRA Certification B.V.                  | EN 61535                 | 71-102984                |
|   | CCA<br>DEKRA Certification B.V.                  | IEC 61535                | NL-49482                 |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |

## Ship Approvals

| Logo  | Approval   | Additional Approval Text | Certificate name         |
|---|--|--------------------------|--------------------------|
|   | ABS<br>American Bureau of Shipping               | Steel Vessel Rules       | 14-<br>HG1241513-<br>PDA |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|  | LR<br>Lloyds Register                            | EN 61535                 | 08/20047<br>(E2)         |





## Other Approvals

| Logo   | Approval                            | Additional Approval Text | Certificate name |
|--|-------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Germany GmbH | UL 1977                  | E45171           |





|  |  |         |        |
|--|--|---------|--------|
|  | <b>UL</b><br>UL International Germany GmbH | UL 1977 | E45171 |
|--|--|---------|--------|

## Compatible products


### Strain relief plate

|   |   |                     |
|---|---|---------------------|
|   | <b>Item no.: 890-502</b><br>Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; black           | 890-502             |
|   | <b>Item no.: 890-502/342-000</b><br>Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 17.5 mm; black | /342-000<br>890-502 |
|   | <b>Item no.: 890-512</b><br>Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; white           | 890-512             |
|  | <b>Item no.: 890-512/342-000</b><br>Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 17.5 mm; white | /342-000<br>890-512 |



### Locking lever

|  |  |         |
|--|--|---------|
|  | <b>Item no.: 890-101</b><br>Locking lever; for manual operation; black                 | 890-101 |
|  | <b>Item no.: 890-111</b><br>Locking lever; for flying leads; for tool operation; black | 890-111 |
|  | <b>Item no.: 890-121</b><br>Locking lever; for manual operation; white                 | 890-121 |
|  | <b>Item no.: 890-131</b><br>Locking lever; for flying leads; for tool operation; white | 890-131 |

### assembling

|  |   |         |
|--|---|---------|
|  | <b>Item no.: 890-310</b><br>Mounting carrier; 2- to 5-pole; for flying leads; black | 890-310 |
|  | <b>Item no.: 890-311</b><br>Mounting carrier; 2- to 5-pole; for flying leads; white | 890-311 |

### tools

|  |   |         |
|--|---|---------|
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | 210-719 |
|  | <b>Item no.: 890-382</b><br>Operating tool; 2-way; green  | 890-382 |



Downloads

Documentation

Bid Text

|                                 |             |                |          |
|---------------------------------|-------------|----------------|----------|
| 890-1102<br>WINSTA MINI 2-polig | Apr 4, 2012 | doc<br>23.0 kB | Download |
|---------------------------------|-------------|----------------|----------|

---

CAD/CAE - Smart Data

CAD data

|                      |     |          |
|----------------------|-----|----------|
| 3D Download 890-1102 | URL | Download |
|----------------------|-----|----------|

---

EPLAN

|                   |          |
|-------------------|----------|
| EPLAN Data Portal | Download |
|-------------------|----------|

---

WSCAD

|                |          |
|----------------|----------|
| WSCAD Universe | Download |
|----------------|----------|

---

Subject to changes.

---