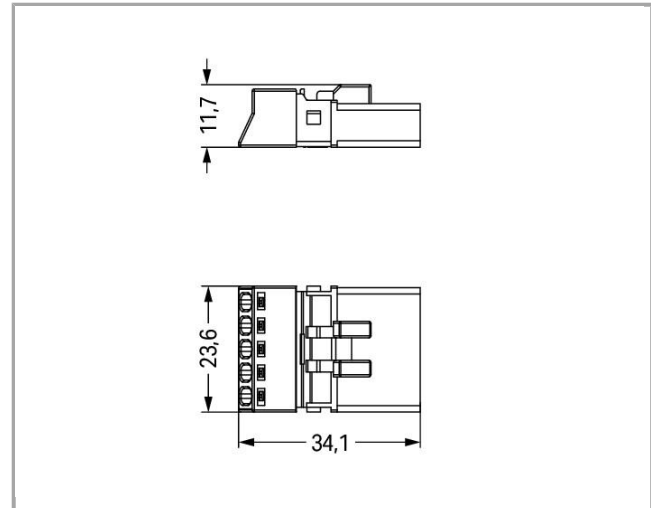
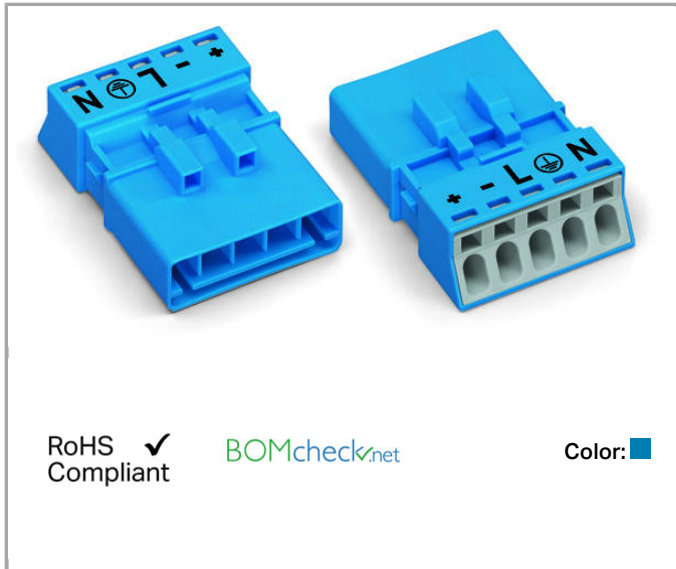


## Data sheet | Item number: 890-1115

Plug; 5-pole; Cod. I; 1,50 mm<sup>2</sup>; blue

890-1115



### 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)         | 400 V |
| Rated impulse voltage (III / 3) | 6 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) | 12 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                           | 5                                  |                           |        |
| Total number of potentials                                  | 5                                  |                           |        |
| Ground function   | with preceding GND contact         |                           |        |
| Conductor entry direction to mating direction               | 0°                                 |                           |        |
| No. of poles  | 5                                  |                           |        |

## Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 4.4 mm / 0.173 inch  |
| Width       | 23.6 mm / 0.929 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<br><br>100, with resistive load $I_N = 16A$ , tested (1.5mm <sup>2</sup> /AWG 16)                            |
| Marking                                | N L - +  |
| 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                      | N L - +  |

## Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| 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                   | 0.12 MJ                                 |
| Weight                      | 5.7 g                                   |

## Environmental Requirements

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

## Commercial data





|                    |               |
|--------------------|---------------|
| Product Group      | 20 (WINSTA)   |
| Country of origin  | PL            |
| GTIN               | 4055143548601 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates



#### Radio-Approvals

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

#### Country specific Approvals

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

#### Ship Approvals


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

#### Other Approvals

| Logo | Approval  | Additional Approval Text | Certificate name |
|------|-----------|--------------------------|------------------|
|      | <b>UL</b> | UL 1977                  | E45171           |



UL International Germany GmbH



|  |                               |         |        |
|--|-------------------------------|---------|--------|
|  | UL                            | UL 1977 | E45171 |
|  | UL International Germany GmbH |         |        |

## Compatible products

### Strain relief plate

|  |  |         |
|--|--|---------|
|  | <b>Item no.: 890-505</b>   | 890-505 |
|  | Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; black |         |
|  | <b>Item no.: 890-515</b>   | 890-515 |
|  | Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white |         |



### assembling

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





### shield connection

|  |  |         |
|--|--|---------|
|  | <b>Item no.: 890-527</b>                   | 890-527 |
|  | Shield connecting plate; 5-pole; for plugs |         |

### tools

|  |   |         |
|--|---|---------|
|  | <b>Item no.: 210-719</b>  | 210-719 |
|  | Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft |         |
|  | <b>Item no.: 890-385</b>  | 890-385 |
|  | Operating tool; 5-way; green  |         |

### Locking lever

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



Downloads  
Documentation

Bid Text

|                     |             |         |          |
|---------------------|-------------|---------|----------|
| 890-1115            | Apr 4, 2012 | doc     | Download |
| WINSTA MINI 5-polig |             | 24.1 kB |          |

CAD/CAE - Smart Data

CAD data

|                      |     |          |
|----------------------|-----|----------|
| 3D Download 890-1115 | URL | Download |
|----------------------|-----|----------|

WSCAD

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

Subject to changes.