Materials

- 1. Insulator, PBT + 15% glass fiber, white
- 2. Shell, C2700 brass, 2 µm nickel plated
- 3. Spring contact, C5191 phosphor bronze, 2 µm nickel plated

Electrical requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: 30 m Ω or less

Rated voltage: 20 Vdc

Rated current: 6 A

Mechanical requirements

Insertion force: 0.5-3 kgf Withdrawal force: 0.4-2 kgf

Durability: 5000 mating cycles while maintaining; 0.3-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and a less than

100 m Ω contact resistance.

Environmental requirements

Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 $M\Omega$ @ 500 Vdc minimum and a contact resistance of 100 $m\Omega$ or less.

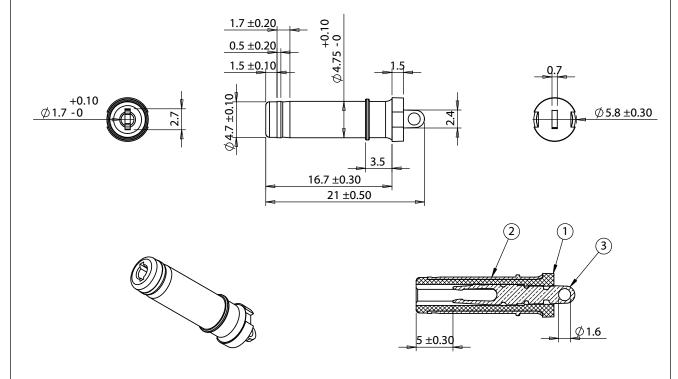
Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

Description

Operating range

Davisian Data

-25 to 70 °C, relative humidity of 85% or less



| A | 11/7/2012 | Initial release | RoHS compliant Function test: no open, no short circuit, no INT | | | TENSILITY 20802 Sockeye Place #130 Bend, OR 97701 USA | | | | |
|---|-----------|-----------------|--|--|--|---|-------|---------|--------------|--|
| | | | DIMENSIONS ARE IN MILLIMETERS DESCRIPTION: | | | tel 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com | | | | |
| | | | TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm | Connector, dc plug, 4.75x1.7xL21mm, brass, nickel plated, molding type, white insulators | | A | | | | |
| | | | X.XX: ± 0.05 mm | | | SCALE | : 2:1 | WEIGHT: | SHEET 1 OF 1 | |
| 5 | | 3 2 | | 1 | | | | | | |

Notes