Materials

- 1. Insulator, POM, yellow
- 2. Insulator, PBT, black
- 3. Center contact, C5191 phosphor bronze, 2 μm nickel plated
- 4. Shell, C3604 brass, 2 μm nickel plated

Electrical requirements

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

Rated voltage: 20 Vdc Rated current: 4 A

Mechanical requirements

Insertion force: 0.5-2 kgf Withdrawal force: 0.3-1.5 kgf

Durability: 5000 mating cycles while maintaining; 0.4-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and a less than 100 m Ω contact resistance.

Environmental requirements

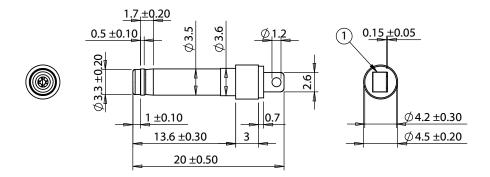
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

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

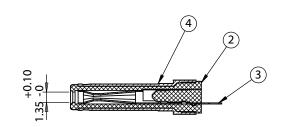
Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

Operating range

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







Revision A	Date 10/21/2009	Description Initial release	Notes RoHS compliant Function test: no open, no short circuit, no INT			TENSILITY			
A1	11/9/2012	Added test data				20802 Sockeye Place #130 Bend, OR 97701 USA tel 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com			
			DIMENSIONS ARE IN MILLIMETERS TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	DESCRIPTION: Connector, dc plug, 3.5x1.35xL20mm, molding style, spring contacts	SIZE A SCALE	Part number 50-00056 : 2:1 WEIGHT: SHEET 1 OI		SHEET 1 OF 1	