Materials

- 1. Insulator, ABS, black
- 2. Pin, C3604 brass, 2 µm nickel plated
- 3. Shell, C3604 brass, 2 µm nickel plated
- 4. Spring contact, C5191 phosphor bronze, 2 μm nickel plated

Electrical requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 500 Vdc

Contact resistance: 30 $m\Omega$ or less

Rated voltage: 20 Vdc Rated current: 7 A

Mechanical requirements

Insertion force: 0.3-3 kgf Withdrawal force: 0.3-3 kgf

Durability: 5000 mating cycles while maintaining; 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and a less than 100 m Ω contact resistance.

than 100 mt2 contact resistance

Environmental requirements

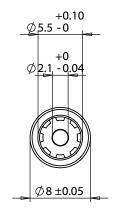
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

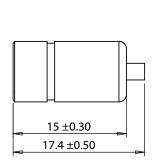
Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

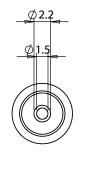
Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

Operating range

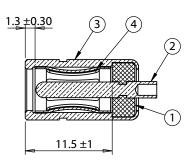
-25 to 70 °C, relative humidity of 85% or less











Revision	9/2/2009	Description Initial release	RoHS compliant		TENSILITY				
A1	11/9/2012	Added test data	Function test: no open, no short circuit, no INT			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 jack, 5.5x2.1xL17.4 mm, molding style	2.1xL17.4 mm,	SIZE Part number A 50-00025			
			A.AA. ± 0.03 IIIIII	<u> </u>		SCALE: 2:1		WEIGHT:	SHEET 1 OF 1

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