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

Materials

- 1. Insulator: POM, black
- 2. Shell: C3604 brass, 2 µm nickel plated 3. Spring contact: C5191 phosphor bronze, 2 µm nickel plated
- 4. Spring fork: C5191 phosphor bronze, 1 μ" gold plated
- 5. Spring fork: C5191 phosphor bronze, 2 µm nickel plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: $50 \text{ m}\Omega$ or less

Mechanical Requirements Insertion force: 0.4-4 kgf Withdrawal force: 0.4-4 kgf

Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.3 kgf min. withdrawal force and less than $60 \text{ m}\Omega$ contact resistance.

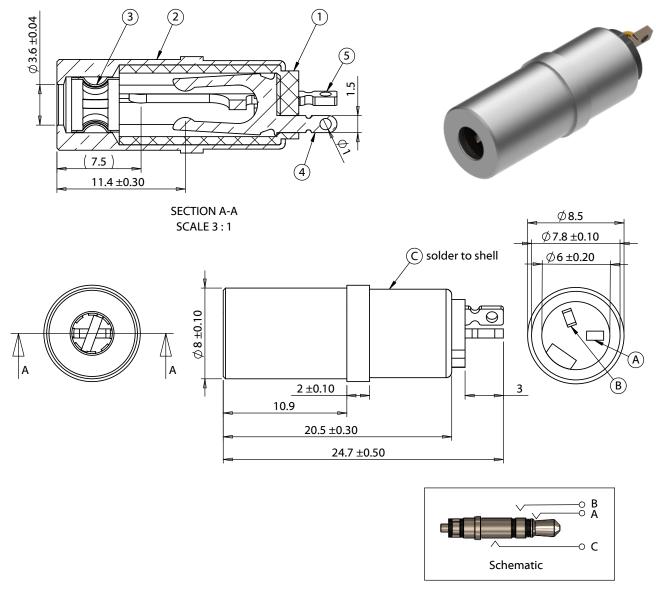
Environmental Requirements

Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation

Humidity test: 40 °C, relative humidity 90-100% for 96 hours

without deformation
Salt spray test: 35±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 100 m Ω .

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Revision:	Date:	Description:	Prepared:	Notes:							
A	9/4/2009	Initial release		RoHS Compliant	Compliant			TENSILITY			
A1	6/6/2012	Updated drawing	Verified:	Punction test: no open, no short circuit, no intermittent Description: Connector, stereo jack, 3.5x8.0xL24.7 mm, brass, nickel plated, molding style		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com Size: Part number: A 50-00039 Scale: 5:1					
A2	3/8/2019	Corrected length tolerance	Dimensions are in								
			millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm								

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