Materials

- 1. Insulator: Nylon (UL94V-0), black
- 2. Center pin: C3604 brass, 1 µm min nickel plated
- 3. Shell: C3604 brass, 1 µm min nickel plated
- 4. Spring terminal: C5191 phosphor bronze, 1 µm min nickeľ plated

Electrical Requirements

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

Mechanical Requirements

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

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

- Environmental Requirements Heat test: 70 °C, relative humidity 70-85% for 96 hours while maintaining contact resistance: $100 \text{ m}\Omega$ or less, insulation resistance: $50 \text{ M}\Omega$ @ 500 Vdc, without looseness or deformation Humidity test: 40 °C, relative humidity 90-100% for 96 hours while maintaining dielectric strength: 1 min @ 500 Vac, insulation resistance: $50 \text{ M}\Omega$ @ 500 Vdc, contact resistance:
- 100 m Ω or less 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 80 m Ω .









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Revision:	Date:	Description:	Prepared:	Notes:				
A	5/17/2019	Initial release		RoHS compliant			NSIL	ITY
			Verified:	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com Size: Part number: A 50-00617		
			millimeters.	Description:	Size:			
			Tolerances: X: <u>+</u> 0.3 mm	Connector, dc jack, 5.5x2.5x17.6mm, brass, nickel plated, molding type, threaded 5/16-32	A			
			X.X: ± 0.2 mm X.XX: ± 0.2 mm	plated, molding type, threaded 5/16-32		e: 3:1	$\bigcirc \bigcirc$	Sheet 1 of 2
		5	4	3 2				1

