Materials

- 1. Insulator: Nylon UL94V-0, black
- 2. Pin: C3604 brass, 1 µm nickel plated minimum
- 3. Shell: C3604 brass, 1 µm nickel plated minimum
- 4. Terminal: C5191 phosphor bronze, 1 µm nickel plated minimum

Electrical Requirements

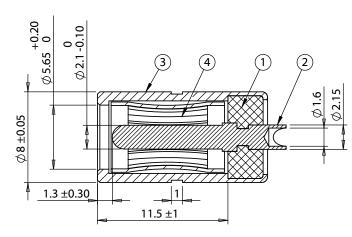
Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: 30 m Ω or less

Mechanical Requirements

Insertion force: 0.3-3 kgf Withdrawal force: 0.3-3 kgf Life cycle: 5000 mating cycles while maintaining 0.3-2.0 kgf min. insertion force, 0.2-1.5 kgf min. withdrawal force and less than 100 m Ω contact resistance.

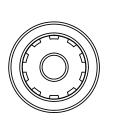
Environmental Requirements

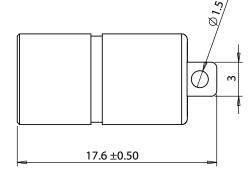
- Heat test: 70 °C, relative humidity 70-85% for 96 hours while maintaining contact resistance: 100 m Ω maximum, insulation resistance: 50 M Ω @500 Vac, without looseness or deformation
- Humidity test: 40 °C, relative humidity 90-100% for 96 hours while maintaining dielectric strength: 1 min. @ 500 Vac, insulation resistance: 50 M Ω @ 500 Vdc, contact resistance: 100 m Ω maximum
- 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 .

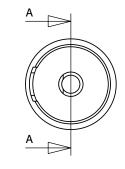












Revision:	Date:	Description:	Prepared:	Notes:							
А	09/28/2016	Initial release	GL Digitally signed by GL Date: 2019.01.18 09:14:44 -08'00'	RoHS compliant		TENSILITY					
A1	01/18/2019	Updated temperature rise data	AW Date: 2019.01.18 09:53:40-08'00'	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com					
			Dimensions are in millimeters.	Description:	, tion:			Size: Part number:			
			Tolerances: X: ± 0.3 mm	Connector, dc jack, 5.5x2.1x17.6 mm, molding style, spring contacts, nickel plated, 105° C		A)-00541			
			X.X: ± 0.1 mm X.XX: ± 0.05 mm			Scale:	3:1	$\bigcirc \square$	Sheet 1 of 2		
5		4	3	2				1			

