#### Materials

- 1. Brass, nickel plating, 1µ minimum 2. Nylon PA46, UL 94 V-0, black

# **Electrical requirements**

Dielectric strength: 1 min @ 250 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance:  $50 \text{ m}\Omega$  or less

### **Mechanical requirements**

Insertion force:  $0.3 \sim 4 \text{ kgf}$ Withdrawl force: 0.3 ~ 4 kgf

Durability: 5000 mating cycles while maintaining insertion force of  $0.3 \sim 4$  kg; withdrawl force of  $0.3 \sim 4$  kg; contact resistance of  $50m\Omega$  or less.

#### **Environmental tests**

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 $\Omega$  @ 500 Vdc minimum.

Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain contact resistance of 100  $m\Omega$  or less with no looseness or deformation.

Salt spray test:  $35 \pm 2$  °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 100 m $\Omega$ .

# **Solderina**

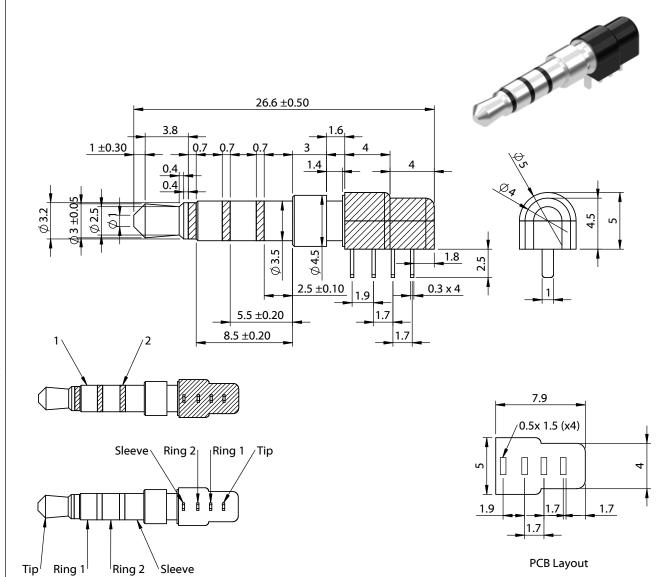
Solderability: 90% minimum coverage when terminals dipped 2mm in 260  $\pm$ 5 °C solder bath for 3  $\pm$ 0.5 seconds

Solder bath durability: no deformation when immersed in 255  $\pm$ 5 °C up to surface of the board for 5 seconds or less

Solder iron durability: no deformation when exposed to 350  $\pm$ 10 °C for 5 seconds or less

### **Operating range**

-25 to 70 °C



'									
Revision:	Date:	Description:	Prepared:	Notes:					
Α	7/9/2015	Initial release		RoHS compliant			Fľ	NSILITY	
A1	10/27/2015	Added PCB dimensioning and wiring information	Verified:			tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			Dimensions are in						
			millimeters.	Description:		Size: Part number:			
			Tolerances: X: ± 0.3 mm	Connector, audio plug, 4C, 3.5xL26.6 mm, thru hole	Α	54-00	0035		
			X.X: ± 0.1 mm X.XX: ± 0.05 mm	90°, nickel plated		Scale:	2:1	Sheet 1 of 7	
		5	4	3	2		I	1	