

#### Materials

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

#### Electrical requirements

Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 50 mΩ or less

#### Mechanical requirements

Insertion force: 0.4 ~ 4 kgf  
Withdrawl force: 0.4 ~ 4 kgf  
Durability: 5000 mating cycles while maintaining insertion force of 0.3 ~ 4 kg; withdrawl force of 0.3 ~ 4 kgf; contact resistance of 60mΩ 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 MΩ @ 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 mΩ or less with no looseness or deformation.

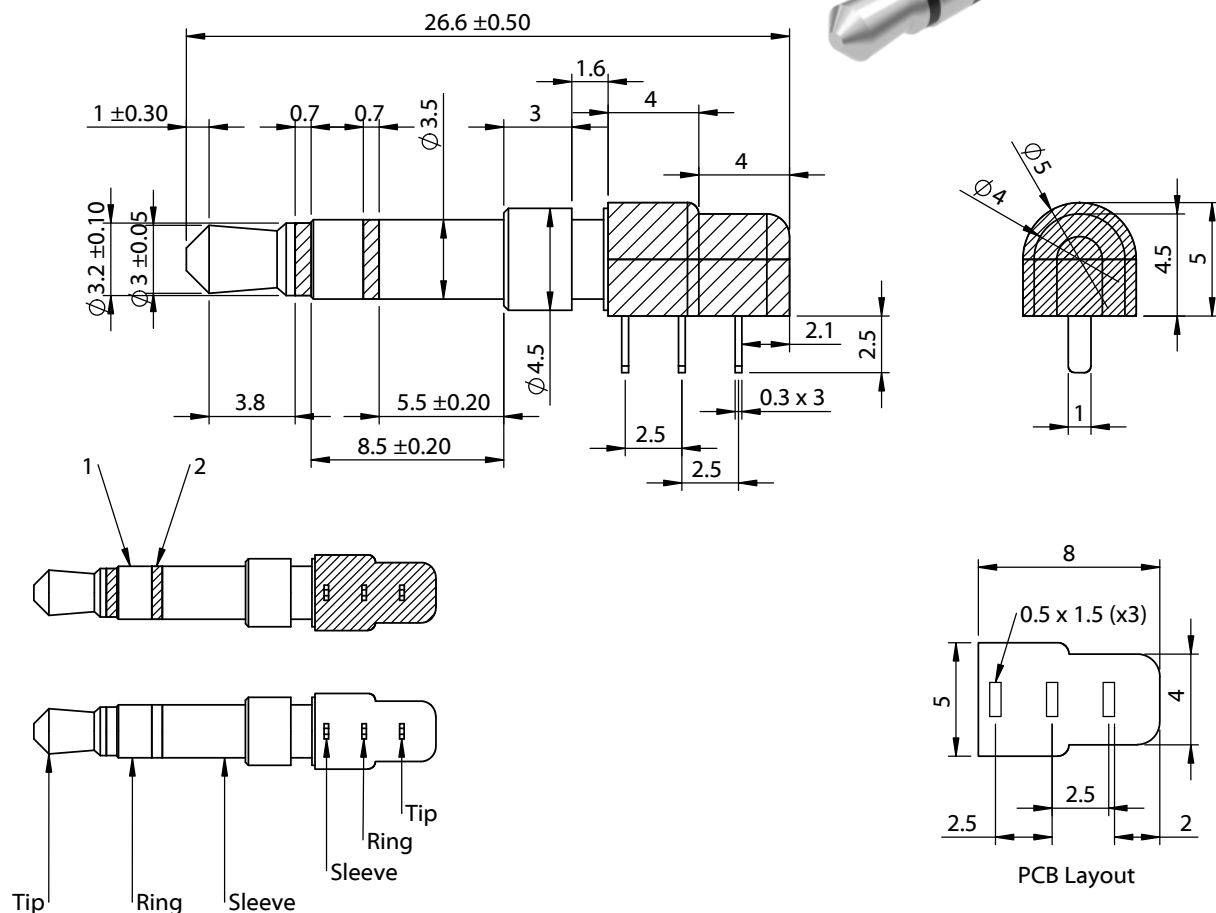
Salt spray test: 35 ±2 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 100 mΩ.

#### Soldering

Solderability: 90% minimum coverage when terminals dipped 2mm in 260 ±5 °C solder bath for 3 ±0.5 seconds  
Solder bath durability: no deformation when immersed in 255 ±5 °C up to surface of the board for 5 seconds or less  
Solder iron durability: no deformation when exposed to 350 ±10 °C for 5 seconds or less

#### Operating range

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



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>		
A	7/9/2015	Initial release	Verified:	RoHS compliant			
A1	10/27/2015	Added PCB dimensioning and wiring information	Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description:	Size:	Part number:	
				Connector, audio plug, 3C, 3.5xL26.6 mm, thru hole, 90°, nickel plated	A	54-00036	
					Scale: 2:1		Sheet 1 of 1