

Materials

1. Brass, nickel plating, 1µm minimum
2. Nylon PA46, 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
 Withdrawal force: 0.4 ~ 4 kgf
 Durability: 5000 mating cycles while maintaining insertion force of 0.3 ~ 4 kg; withdrawal force of 0.3 ~ 4 kgf; contact resistance of 60mΩ or less.

Environmental tests

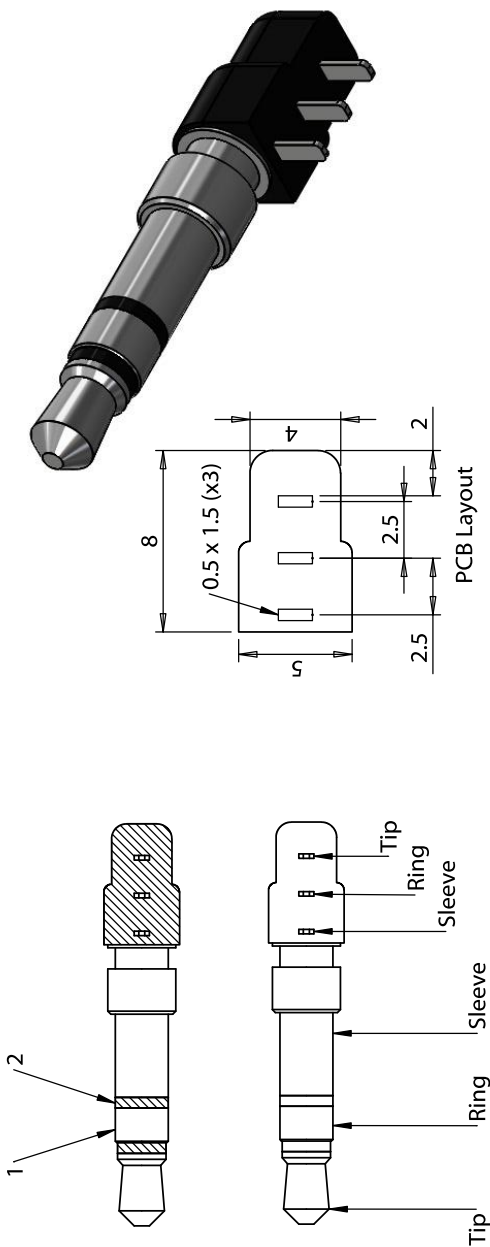
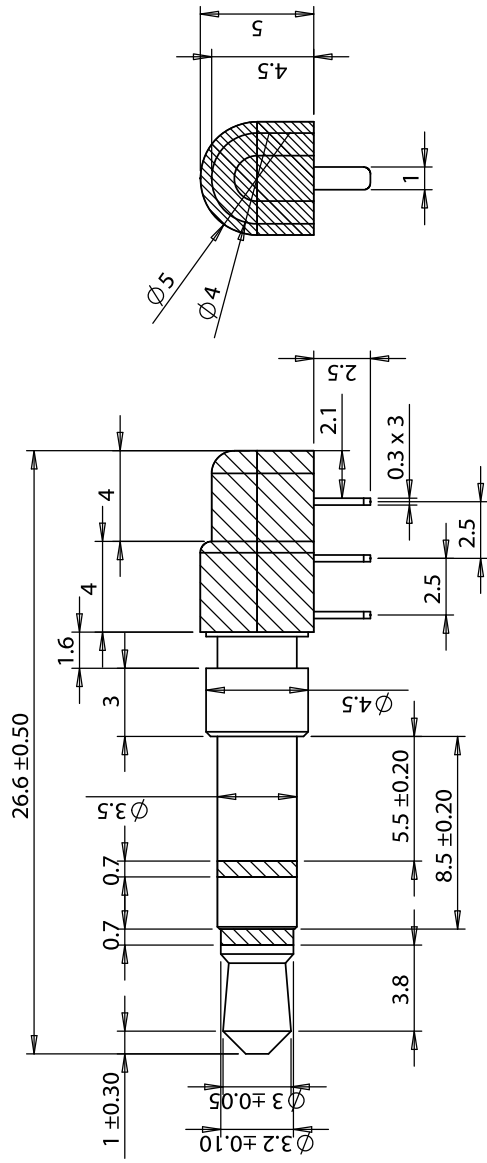
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 MΩ @ 500 Vdc minimum.

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.

Operating range

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



REVISION	DATE	DESCRIPTION	NOTES	PREPARED:	VERIFIED:	DIMENSIONS ARE IN MILLIMETERS	DESCRIPTION:	SIZE	PART NUMBER	SCALE:	WEIGHT:	SHEET	OF
A	7/9/2015	Initial release	RoHS compliant Drawing in third angle projected	GL 2015.10.27 15:50:15 -07'00'	AG 2015.10.27 15:51:37 -07'00'		Connector, 3C audio plug, 3.5xL26.6 mm, brass, nickel plated, PCB mount	A	54-00036	5:1		1	1
A1	10/27/2015	Added PCB dimensioning and wiring information										2	2
												3	3
												4	4
												5	5

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