Materials

- 1. Insulator, nylon, black
- 2. Front terminal, brass, gold plating
- 3. Spring plate, phosphor bronze, gold plating
- 4. Spring plate, copper beryllium, gold plating

Electrical

Dielectric strength: 1 min @ 250 Vac Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: 70 m Ω or less

Rated voltage: 30 Vdc Rated current: 0.3 A

Mechanical

Insertion force: 1.0-2.0 kgf Withdrawal force: 0.8-1.4 kgf

Durability: 5000 mating cycles at 15 to 18 cycles per minute without loading; less than $100 \text{ m}\Omega$ contact resistance; minimum $50 \text{ M}\Omega$ insulation resistance Terminal strength: 0.3 kgf for 15 seconds in any direction without damage or looseness

Soldering

Solderability: 75% minimum when terminals dipped 2 mm in 245 ±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 1.6 mm for 5 seconds or less

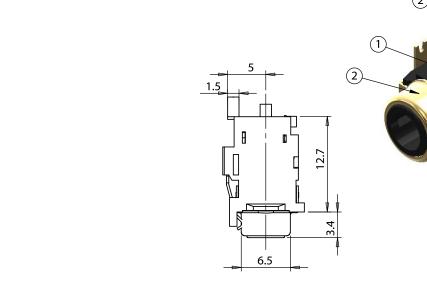
Solder iron durability: no deformation when exposed to $350\pm10\,^{\circ}\text{C}$ for 3 ± 0.5 seconds

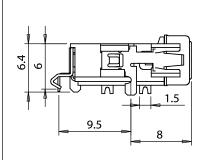
Environmental

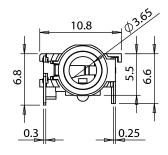
Cold test: -25 ± 3 °C for 48 hours without deformation Heat test: 70 ± 2 °C for 48 hours without deformation Humidity test: 40 ± 2 °C and humidity between 90 and 98 % for 48 hours without deformation

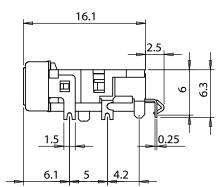
Operating range

-10 ~ 60 °C

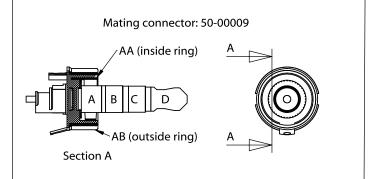


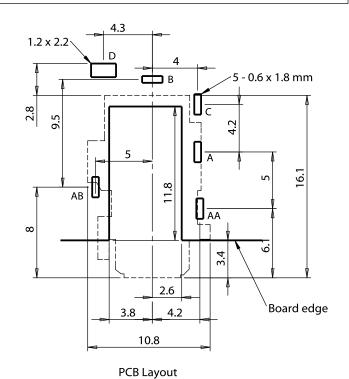


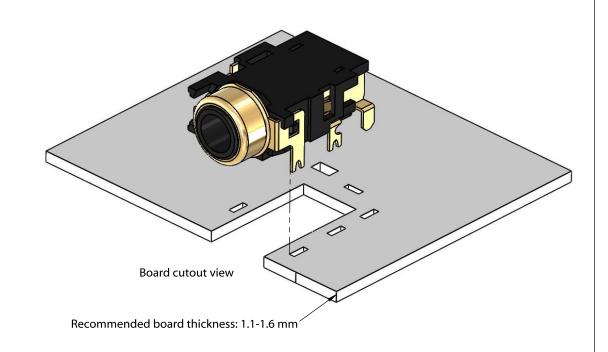


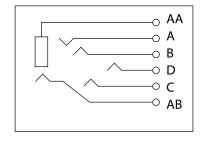


REVISION	DATE	DESCRIPTION	PREPARED: Digitally signed	NOTES	-		1011	T\/	
А	2/11/15	Initial release	by GL Date: 2017.04.25 10:30:21 -07'00'	RoHS compliant		TENSILITY 20802 Sockeye Place #130 Bend, OR 97701 USA tel. 541.323.3228 fax 541.323.4202			
A1	11/5/2015	added wiring schematic, updated description	VERIFIED: Digitally signed by PS Date: 2017.04.25 1276.45 - 9700'	Function test: no open, no reversed polarity, no short circuit, no INT Drawing in third angle projected	Ben				
A2	7/12/2016	corrected PCB Layout	DIMENSIONS ARE IN	- Drawing in tillia arigie projected	1	800 877.670.7118 www.tensility.com			
А3	4/25/2017	Modified PCB dimensioning	MILLIMETERS TOLERANCES: X: ± 0.5 mm X.X: + 0.3 mm	DESCRIPTION: Connector, 6C audio jack, 3.5xL18.6 mm, PCB mount, 90°, AU plated	SIZE A	A F4 00022			
			X.XX: ± 0.05 mm		SCAL	E: 1:1		SHEET 1 OF 2	









Schematic

Revision:	Date:	Description:	Prepared:	Notes:					
А	2/11/2015	Initial release	GL Digitally signed by GL Day: 2017/04.25 10.30x43-07707	RoHS compliant		ENSILITY			
A1	11/5/2015	added wiring schematic, updated description	Verified: PS Digitally signed by PS Date: 2017.04.25 12:16:32	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118			
A2	7/12/2016	Corrected PCB Layout	Dimensions are in		fax 1.541.323.4202 web tensility.com				
А3	4/25/2017	Modified PCB dimensioning	- millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Connector, 3.5xL21.3 mm, 6C audio plug with double metal rings, brass gold plated	Size: Part number: 54-00032				
					Scale:	3:1 Sheet 2 of 2			

3 2