# 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 $\Omega$  @ 500 Vdc Contact resistance: 70  $\text{m}\Omega$  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 m $\Omega$  contact resistance; minimum 50 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

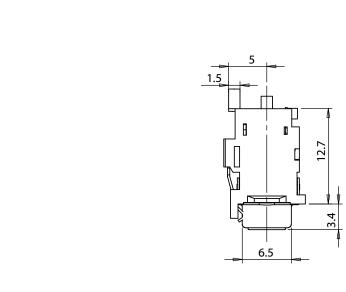
Solder iron durability: no deformation when exposed to  $350 \pm 10$  °C for  $3 \pm 0.5$  seconds

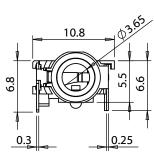
### Environmental

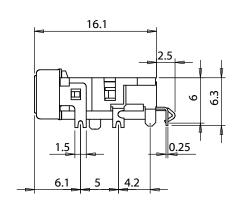
Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 70 ±2 °C for 48 hours without deformation Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 48 hours without deformation

# Operating range

-10 ~ 60 °C







REVISION	DATE	DESCRIPTION	PREPARED:		
Α	2/11/15	Initial release			
A1	11/5/2015	added wiring schematic, updated description	VERIFIED:  DIMENSIONS MILLIMETER		
A2	7/12/2016	corrected PCB Layout			
А3	4/25/2017	Modified PCB dimensioning	TOLERANCE		
			X: ± 0.5 X.X: ± 0.3 X.XX: ± 0.05		

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**IMETERS** RANCES:

+ 0.5 mm ± 0.3 mm + 0.05 mm **NOTES** 

**RoHS and REACH compliant** 

Function test: no open, no reversed polarity, no short circuit, no INT

Drawing in third angle projected

**DESCRIPTION:** 

Connector, 6C audio jack, 3.5xL18.6 mm, PCB mount, 90°, AU plated

# TENSILITY

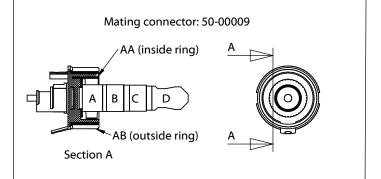
20802 Sockeye Place #130 Bend, OR 97701 USA tel 541.323.3228 fax 541.323.4202

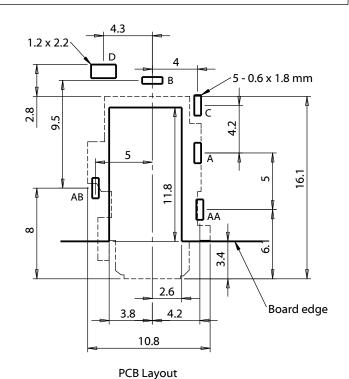
800 877.670.7118 www.tensilitv.com

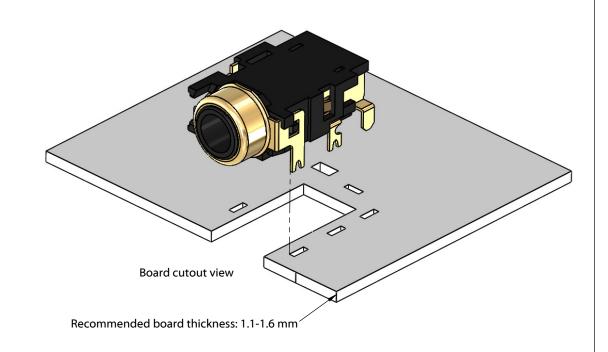
SIZE PART NUMBER 54-00032

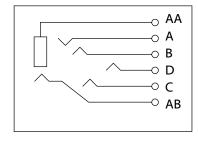
SCALE: 1:1 SHEET 1 OF 2

3 2 5









Schematic

Revision:	Date:	Description:	Prepared:	Notes:			
Α	2/11/2015	Initial release		RoHS and REACH compliant		Ы	NSILITY
A1	11/5/2015	added wiring schematic, updated description	Verified:	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		
A2	7/12/2016	Corrected PCB Layout	Dimensions are in				
A3	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: A 54-00032		
					Scale:	3:1	Sheet 2 of 2

5 4 3 2