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

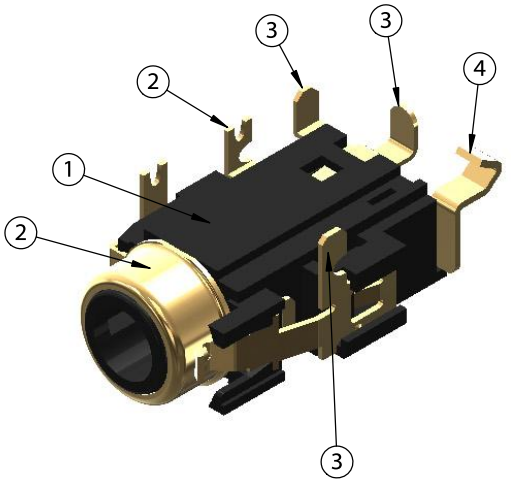
Electrical
Dielectric strength: 1 min @ 250 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 70 mΩ or less
Rated voltage: 30 Vdc
Rated current: 0.3 A

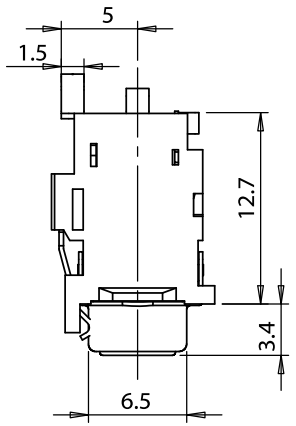
Mechanical
Insertion force: 1.0-2.0 kgf
Withdrawal force: 0.8-1.4 kgf
Durability: 5000 mating cycles at 15 to 18 cycles per minute without loading; less than 100 mΩ contact resistance; minimum 50 MΩ insulation resistance
Terminal strength: 0.3 kgf for 15 seconds in any direction without damage or looseness

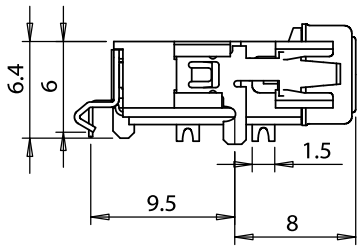
Soldering
Solderability: 75% minimum when terminals dipped 2 mm in 245 ±5 °C solder bath for 3 ±0.5 seconds
Solder bath durability: no deformation when immersed in 255 ±5 °C up to surface of the board 1.6 mm for 5 seconds or less
Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±0.5 seconds

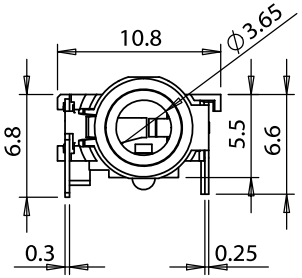
Environmental
Cold test: -25 ±3 °C for 48 hours without deformation
Heat test: 70 ±2 °C for 48 hours without deformation
Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 48 hours without deformation

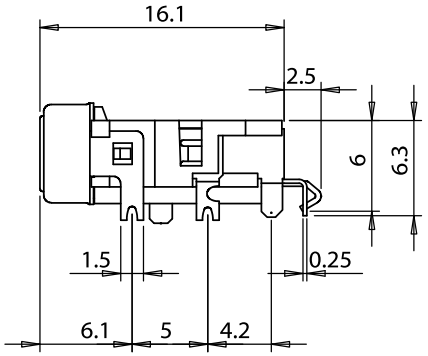
Operating range
-10 ~ 60 °C











REVISION	DATE	DESCRIPTION
A	2/11/15	Initial release
A1	11/5/2015	added wiring schematic, updated description
A2	7/12/2016	corrected PCB Layout
A3	4/25/2017	Modified PCB dimensioning

PREPARED: GL Digitally signed by GL Date: 2017.04.25 10:30:21 -07'00'

VERIFIED: PS Digitally signed by PS Date: 2017.04.25 12:16:45 -07'00'

DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:
X: ± 0.5 mm
X.X: ± 0.3 mm
X.XX: ± 0.05 mm

NOTES
RoHS 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

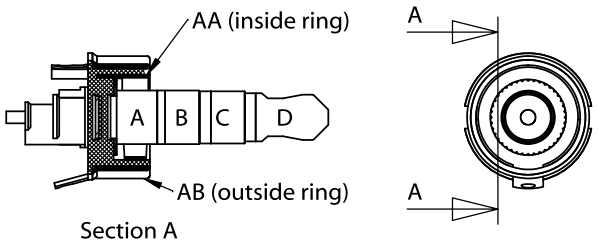
TENSILITY
20802 Sockeye Place #130
Bend, OR 97701 USA
tel 541.323.3228 *fax* 541.323.4202
800 877.670.7118 www.tensility.com

SIZE	PART NUMBER
A	54-00032

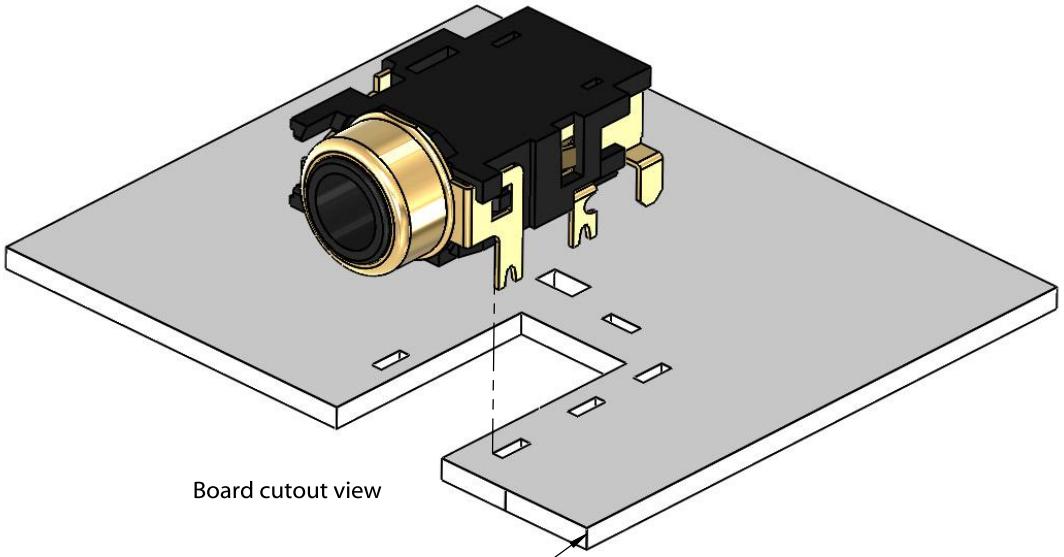
SCALE: 1:1 SHEET 1 OF 2

5 4 3 2 1

Mating connector: 50-00009

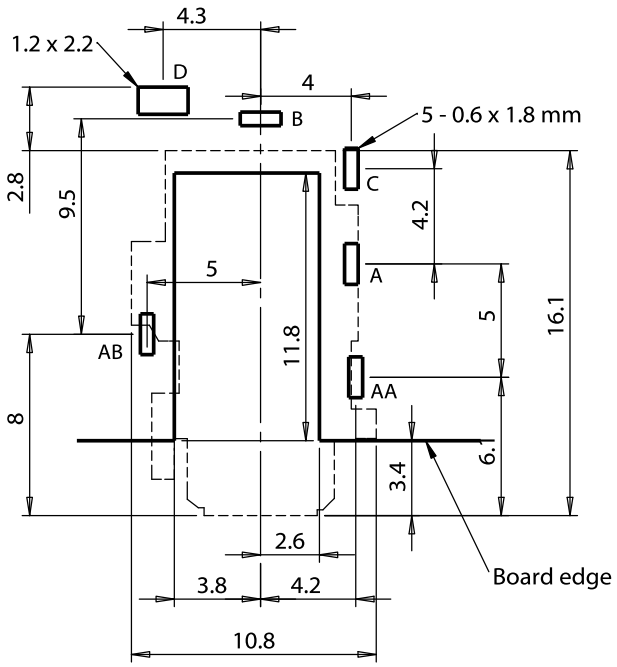


Section A

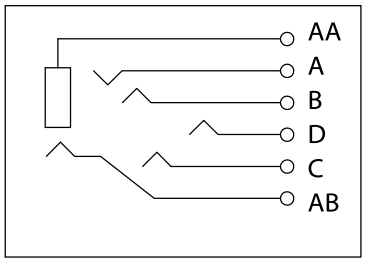


Board cutout view

Recommended board thickness: 1.1-1.6 mm



PCB Layout



Schematic

Revision:	Date:	Description:
A	2/11/2015	Initial release
A1	11/5/2015	added wiring schematic, updated description
A2	7/12/2016	Corrected PCB Layout
A3	4/25/2017	Modified PCB dimensioning

Prepared: GL
Digitally signed by GL
Date: 2017.04.25 10:30:43 -07'00'

Verified: PS
Digitally signed by PS
Date: 2017.04.25 12:16:32 -07'00'

Dimensions are in millimeters.
Tolerances:
X: ± 0.5 mm
X.X: ± 0.3 mm
X.XX: ± 0.05 mm

Notes:

RoHS compliant

Function test: no open, no short circuit, no intermittent

Description:

Connector, 3.5xL21.3 mm, 6C audio plug with double metal rings, brass gold plated

TENSILITY

tel 1.541.323.3228 *800* 877.670.7118
fax 1.541.323.4202 *web* tensility.com

Size: A

Part number: 54-00032

Scale: 3:1

Sheet 2 of 2

5 4 3 2 1

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