

Ratings
 Voltage: 30 V
 Current: 2.5 A

Operating Temperature Range
 -55~85 °C

Materials

- ① Insulator: PA4T, UL94 V-0, black
- ② Contact: C5191 Phosphor bronze, 20 μ" silver plated
- ③ Shell: SUS304, >50 μ" nickel plated
- ④ Red LED

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac
 Insulation resistance: 100 MΩ @ 500 Vdc
 Contact resistance: 30 mΩ or less

Mechanical Requirements

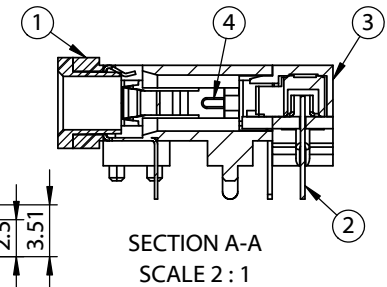
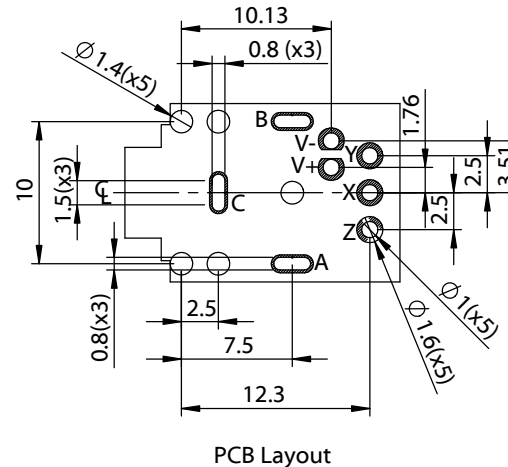
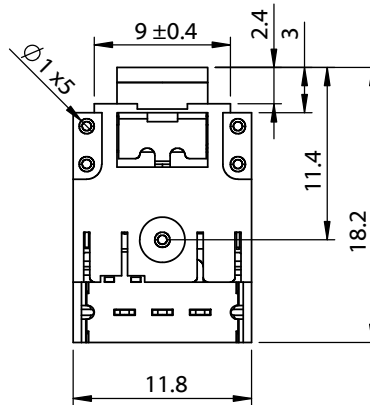
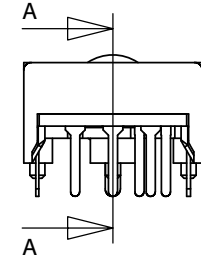
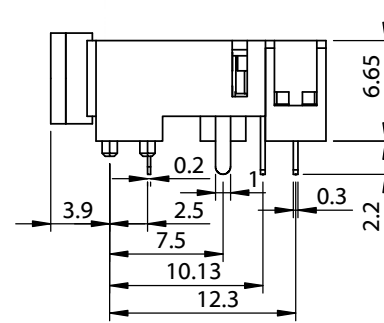
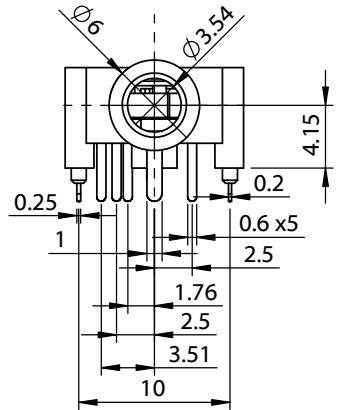
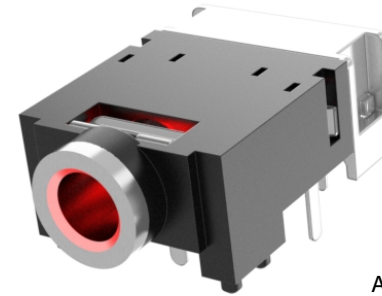
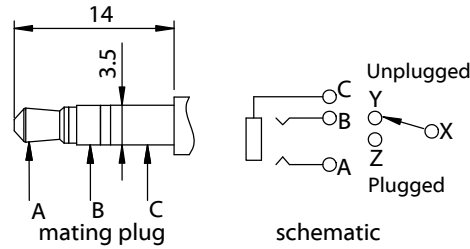
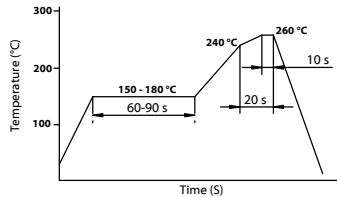
Insertion force: 0.4-3.0 kgf
 Withdrawal force: 0.4-3.0 kgf
 Life cycle: 5000 mating cycles while maintaining 0.4 kgf min. insertion force, 0.4 kgf min. withdrawal force.

Soldering

Solderability: 75% minimum coverage when terminals dipped 2mm 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 300 ±10 °C for 3 ±0.5 seconds

Reflow Soldering Temperature Profile

Pb - Free Flow Profile
 Solder conditions vary depending on reflow soldering equipment.
 The surface temperature of the jack must not exceed 260 °C.



Revision:	Date:	Description:
A	5/10/22	Initial release

Prepared: JD
Digitally signed by JD
 Date: 2022.05.31
 16:52:03 -07'00'

Verified: AG
Digitally signed by AG
 Date: 2022.07.12 16:34:35
 -07'00'

Dimensions are in millimeters.
 Tolerances:
 X: ± 0.38 mm
 X.X: ± 0.25 mm
 X.XX: ± 0.15 mm

Notes:
 RoHS compliant

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

Description:
 Connector, 3C audio jack with red LED, 3.5xL18 mm, thru hole, silver plated


TENSILITY

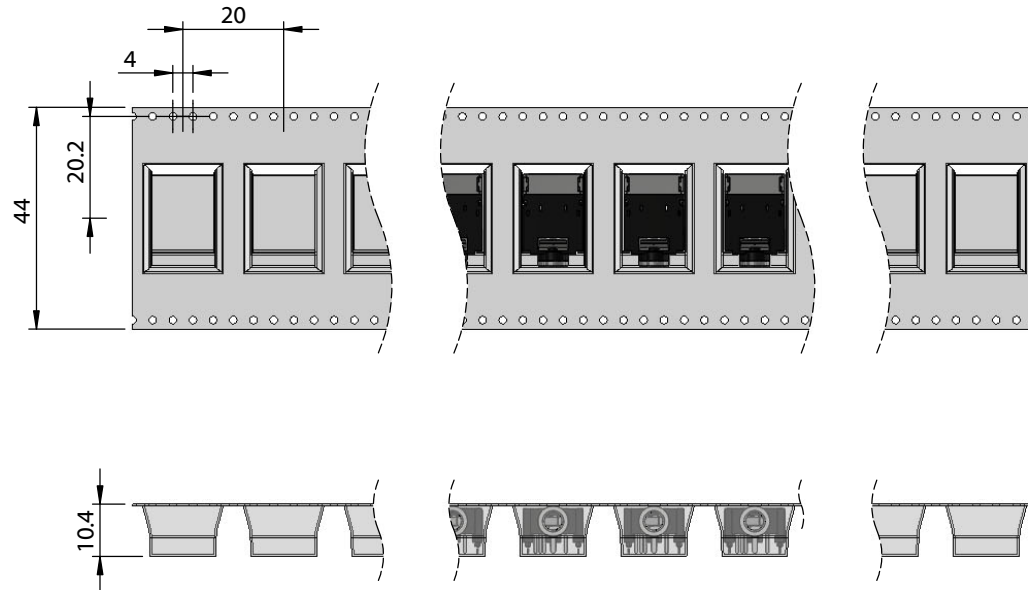
tel 1.541.323.3228 800 877.670.7118
 fax 1.541.323.4202 web tensility.com

Size: A Part number: 54-00306
 Scale: 2:1 Sheet 1 of 2

Packaging
 300 pcs/reel
 13 reels/box

Parameter	Condition	Min.	Typical	Max.
Forward Voltage	I = 20 mA	1.80 V		2.40 V
Luminous Intensity	I = 20 mA	400 mcd		800 mcd
Reverse Current	V = 5 V			10 μA
Chromaticity Coordinates	I = 20 mA	620 nm		625 nm
Spectral Line Half-Width	I = 20 mA		30 nm	

(V+)  (V-)
 LED configuration
 (Common Anode)




Revision:	Date:	Description:
A	5/10/22	Initial release

Prepared: JD <small>Digitally signed by JD Date: 2022.05.31 16:52:19 -07'00"</small>	Notes: RoHS compliant Function test: no open, no short circuit, no intermittent
Verified: AG <small>Digitally signed by AG Date: 2022.07.12 16:34:52 -07'00"</small>	
Description: Connector, 3C audio jack with red LED, 3.5xL18 mm, thru hole, silver plated	

TENSILITY

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Size:	Part number:
A	54-00306
Scale: 1:1.5	 Sheet 2 of 2

To see a custom version of this cable assembly, call Tensility at 541-323-3228 or email engineering@tensility.com