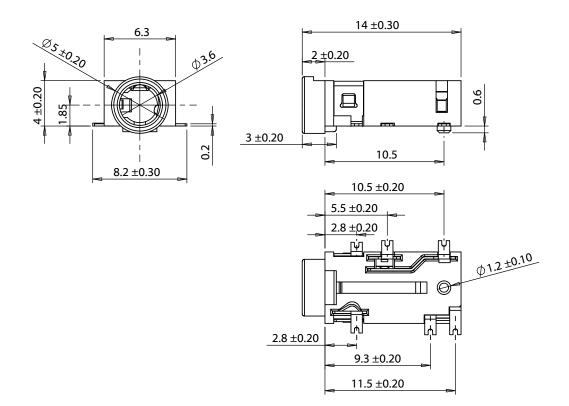
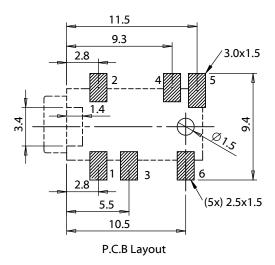


Unplugged Schematic

Plugged Schematic







Revision:	Date:	Description:	Prepared:	Notes:				
Α	3/11/2020	Initial release		RoHS compliant		FNSII ITY		
			Verified: Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.2 mm X.XX: ± 0.2 mm	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			
				Description: Connector, 4C audio jack, 3.5xL14 mm, SMT mount, gold plated	Size: Part number: A 54-00179			
					Scale:	: 3:1 Sheet 1 of 2		

5 3 2

Ratings

Voltage: 48 V Current: 0.5 A

Operating Temperature Range

-40~105 °C, relative humidity of 85% or less

Materials

- (1) #1 contact: phosphor bronze, gold plating
- (2) #2 contact: phosphor bronze, gold plating
- (3) #3 contact: phosphor bronze, gold plating
- (4) #4 contact: phosphor bronze, gold plating
- 5 #5 contact: phosphor bronze, gold plating
- (6) #6 contact: phosphor bronze, gold plating
- (7) Housing: PA9T, black, UL 94 V-0

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 250 Vdc Contact resistance: 30 m Ω or less at 1 KHz

Mechanical Requirements

Insertion force: 0.3-2 kgf Withdrawal force: 0.3-2 kgf

Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and less than 100 mΩ contact resistance

Terminal strength: 500 gf applied in one direction to the tip of the terminal for 1 second without mechanical or electrical damage

Soldering

Solderability: 90% minimum coverage when terminals dipped 2mm in 260 ± 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 5 seconds or less

Environmental Requirements

Cold test: -40 ± 2 °C for 48 hours without deformation Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation

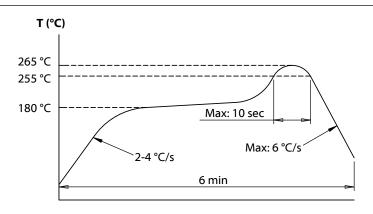
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Humidity test: 40 ± 2 °C, relative humidity 90-100% for 96 hours without deformation

Salt spray test: 35 ± 2 °C, 5% NaCl mist for 24 hrs. Wash parts after test. No remarkable corrosion shall be present

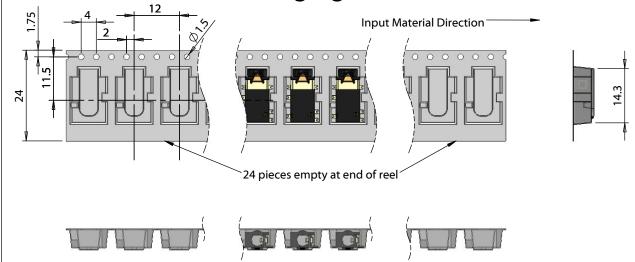
Packaging Information

1000 connectors/reel 12 reels/box



Reflow soldering temperature profile

Packaging Detail



Revision:	Date:	Description:	Prepared:	Notes:		400		
Α	3/11/2020	Initial release		RoHS compliant		\vdash	JSII	ITY
			Verified: Dimensions are in millimeters. Tolerances: X: ± 0.5 mm	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			
				Description: Connector, 4C audio jack, 3.5xL14 mm, SMT mount, gold plated	Size: Part number: A 54-00179			
			X.X: ± 0.3 mm X.XX: ± 0.2 mm		Scale:	1:1		Sheet 2 of 2

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