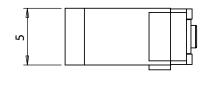


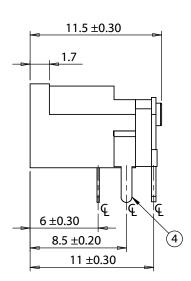
Ø4.3

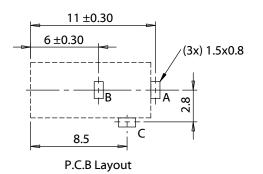
SECTION A-A

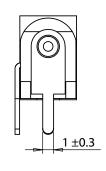
1 ±0.3

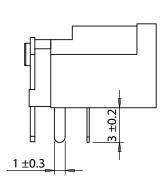
 2.8 ± 0.20











Revision:	Date:	Description:	Prepared:	Notes:						
Α	7/29/2019	Initial release		RoHS compliant				NSII	ITY	
			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			
			Dimensions are in			10x 1.541.525.4202 web terisinty.com				
			millimeters.	Connector, dc jack 3.5x1.35 mm, PCB mount, 90°, silver plated, PBT, thru hole		Size: Part number:				
			Tolerances: X.X: ± 0.3 mm			А 54-00168				
			X.XX: ± 0.2 mm X.XXX: ± 0.1 mm			Scale	: 3:1		Sheet 1 of 2	

5 4 3 2

Ratings

Maximum operating voltage: 48 V
Maximum operating current: 5.5 A (not mated under load)

Operating Temperature Range

-20°C to 70°C, relative humidity of 85% or less

Materials

1)Insulator: PBT, black

(2)Cover: PBT, black

3 Center Pin: brass, nickel plated

(4)Terminal: brass, silver plated

(5)Spring contact: stainless steel, silver plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 250 Vdc minimum Contact resistance: 30 m Ω maximum

Mechanical Requirements

Insertion force: 0.3-2.0 kgf Withdrawal force: 0.3-2.0 kgf

Life cycle: 5000 mating cycles while maintaining contact resistance: 100 m Ω maximum, withstand voltage: 500 Vac, 1 min Terminal strength: 500 gf applied to the terminal for 60 seconds in any direction while maintaining electrical characteristics and without damage or excessive looseness of terminals

Soldering

Solderability: 90% minimum coverage when terminals dipped 2mm in 260 ± 5 °C solder bath for 3 ± 0.5 seconds

Soldering heat test: no deformation when dipped 2 mm in 260 ± 5 °C solder bath for 10 ± 0.5 seconds

Solder iron durability: no deformation when exposed to 350 \pm 10 $^{\circ}$ C for 5 seconds or less

Environmental Requirements

Cold test: -40 ± 2 °C for 48 hours without deformation while maintaining contact resistance: $50 \text{ m}\Omega$ maximum, insulation resistance: $100 \text{ M}\Omega$ @ 250 Vdc minimum, and no sign of damage mechanically or electrically

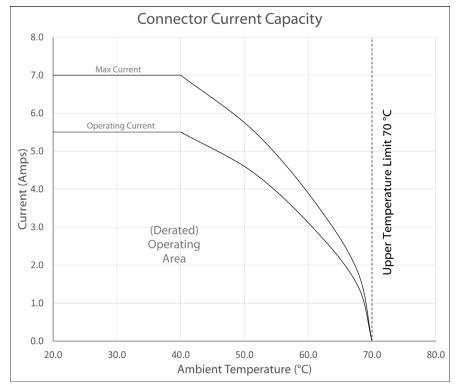
Heat test: 85 ± 2 °C, relative humidity 45-85% for 48 hours while maintaining contact resistance: $50~\text{m}\Omega$ maximum, insulation resistance: $100~\text{M}\Omega$ @ 250 Vdc minimum, and no sign of damage mechanically or electrically

Humidity test: 40 ± 2 °C, relative humidity 90-95% for 48 hours while maintaining contact resistance: 50 mΩ maximum, insulation resistance: 100 MΩ @ 250 Vdc minimum, and no sign of damage mechanically or electrically

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

Packaging Info:

Connectors packaged bulk 1000 pieces in sealed PE bag



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and does not take into account external factors such as housings, mating cables, or other circuitry. Operating current curve (derated by 20% of maximum values) accounts for external factors, and manufacturing variation.

Revision:	Date:	Description:		Prepared:	Notes:						
Α	7/29/2019	Initial release			RoHS compliant		TFNSILITY				
				Verified:	Function test: no open, no shor intermittent	t circuit, no	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com				
				Dimensions are ir millimeters.				,			
				Tolerances: X.X: ± 0.3 mm	Description:	Description: Connector, dc jack 3.5x1.35 mm, PCB mount, 90°, silver plated, PBT, thru hole		Size: Part number:			
					" athean calage at DDT glasses had a			А 54-00168			
				X.XX: ± 0.2 mm X.XXX: ± 0.1 mm	''''			1:1		Sheet 2 of 2	

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