

Revision:		Description:	Prepared: AW Digitally signed by AV Date: 2020.01.30	Notes:		TTNICH ITY			ITY
A	09/20/2018	Initial release	Verified: AG Digitally signed by AG Date: 20200130 16:16:2 Dimensions are in	Function test: no open, no short circuit, no intermittent		TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			millimeters. Tolerances: < 1.0: ± 0.1 mm 1.0 to 10.0: ± 0.2 mn	Description: Connector, dc jack 3.5x1.35 mm, PCB mount, 90°, silver plated, thru hole		Size: Part number: A 54-00126			
		<u> </u>	>10.0: ± 0.3 mm			Scale: 4:1			Sheet 1 of 2

Ratings

Maximum operating voltage: 48 V Maximum operating current: 4 A (not mated under load) Flammability: UL 94 V-0

Operating Temperature Range

-25 ~ 85 °C, relative humidity of 85% or less

Materials

- 1 Insulator: PBT, black
- (2) Spring contact: stainless steel, silver plated (3) Terminal: brass, silver plated (4) Terminal: brass, silver plated

- (5) Center pin: copper alloy, nickel plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc minimum Contact resistance: 50 mΩ maximum

Mechanical Requirements

Insertion force: 0.3-1.2 kgf Withdrawal force: 0.3-1.2 kgf

Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and less than $100 \text{ m}\Omega$ contact resistance.

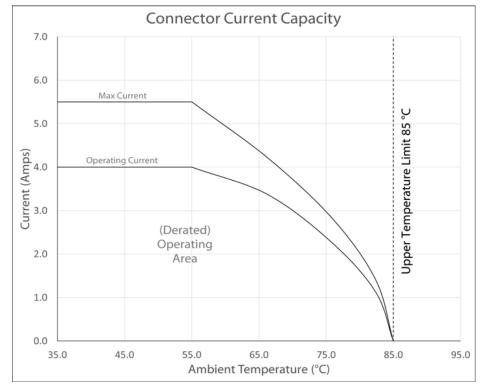
Terminal strength: 150 g applied to the terminal for 15 seconds in any direction while maintaining electrical characteristics and without damage or excessive looseness of terminals

Soldering

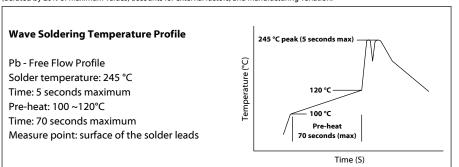
Solderability: 75% minimum coverage when terminals dipped 2mm in 245 ±5 °C solder bath for 3 ±0.5 seconds Solder bath durability: no deformation when immersed in 255 \pm 5 °C up to surface of the board 1.6 mm for 5 seconds or less Solder iron durability: no deformation when exposed to 350 \pm 10 $^{\circ}$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

Environmental Requirements

Cold test: -25 ± 3 °C for 48 hours without deformation Heat test: 85 ± 2 °C, 48 hours without deformation Humidity test: 40 ± 2 °C, relative humidity 90-95% for 48 hours without deformation



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	09/20/2018	Initial release		△ VV	y signed by AW 020.01.30 0 -08'00'			TFNSILITY					
				Verified: AG Digitally Date: 202 -08'00'	signed by AG 20.01.30 16:16:05	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					
			Ì	Dimensions are in millimeters.					lax 1.541.525.4202 web terisinty.com				
						Description:			Size: Part number:				
				Tolerances: < 1.0: ± 0.1 mm	Connector, dc jack 3.5x1.35 mm, PCB mount, 90°, silver plated, thru hole		А 54-00126						
				1.0 to 10.0: ± 0.2 mm >10.0: ± 0.3 mm			Scale	: 1:1		Sheet 2 of 2			

5