Ratings

Operating temperature range: -10° to 60° C Flammability: UL 94 V-0

Materials

- 1. Insulator: PBT, black
- 2. Pin: copper alloy, nickel plated 3. Shell: brass, nickel plated
- 4. Spring contact: stainless steel, nickel plated
- 5. Spring contact collar: copper alloy, nickel plated
- 6. Solder tab: brass, nickel plated
- 7. Washer p/n 56-00001: cold rolled steel, nickel plated
- 8. Nut p/n 56-00000: brass, nickel plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: $50 \text{ m}\Omega$ or less

Mechanical Requirements

Insertion force: 0.3-3 kaf Withdrawal force: 0.2-3 kgf

Terminal strength: a static load of 150 gf shall be applied to the terminal for 15 seconds in any direction.

Life cycle: 5000 mating cycles while maintaining less than 100 m Ω contact resistance, $50M\Omega$ insulation resistance minimum, and dielectric strength of 500 Vac for 1 minute withstand voltage.

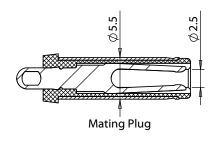
Solderina

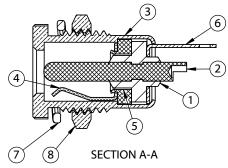
Solderability: 75% minimum coverage when terminals dipped 2mm in 245 \pm 5 °C solder bath for 3 \pm 0.5 seconds

Solder bath durability: no deformation when immersed in 255 \pm 5 °C bath for 5 seconds or less

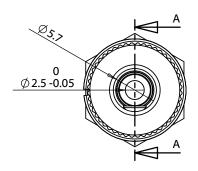
Solder iron durability: no deformation when exposed to 350 \pm 10 °C for 3 ±0.5 seconds

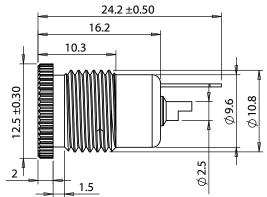
Environmental Requirements Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 70 ±2 °C, for 48 hours without deformation Humidity test: 40 ± 2 °C, relative humidity 90-95% for 48 hours without deformation

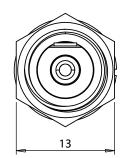








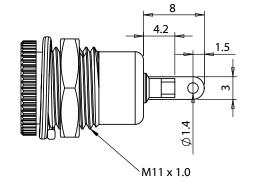


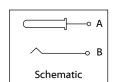


Installation Details

Panel thickness: 1.0 - 4.5 mm

Panel cutout Ø: 11.0 - 12.0 mm





Revision:	Date:	Description:	Prepared:		
Α	8/05/2016	Initial release			
A1	1/04/2017	Updated materials list	Verified:		
A2	8/25/2017	Updated notes	Dimensions are ir millimeters.		
			Tolerances: X: + 0.5 mm		
		_	X.X: ± 0.3 mm X.XX: ± 0.05 mm		

	Prepared:					
	Verified:					
	Dimensions are in millimeters.					
-						
	Tolerances:					
	X: ± 0.5 mm					
	X.X: ± 0.3 mm					

Notes:

RoHS compliant

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

Description:

Connector, dc jack, 5.5x2.5xL24.2 mm, panel mount, threaded, nut and washer, brass, nickel

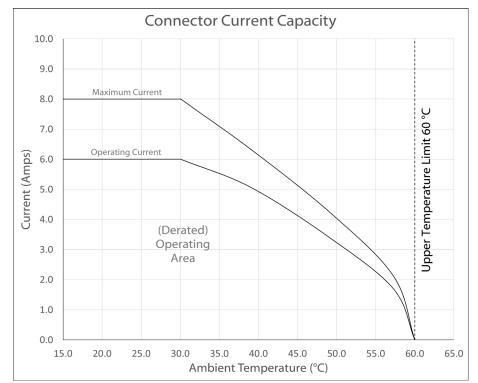
tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com

Size: Part number: 54-00064

Scale: 2:1

Sheet 1 of 2

Ratings Maximum Operating Voltage: 48 Vdc Maximum Operating Current: 6.0 A



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	8/05/2016	Initial release		RoHS compliant		ENSILITY	
A1	1/04/2017	Updated materials list	Verified:	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118	
A2	8/25/2017	Updated notes	Dimensions are in			fax 1.541.323.4202 web tensility.com	
			millimeters. Tolerances:	Description:	Size:	Part number: 54-00064	
			X: ± 0.5 mm		Connector, dc jack, 5.5x2.5xL24.2 mm, panel mount, threaded, nut and washer, brass, nickel	Α .	
			X.X: ± 0.3 mm X.XX: ± 0.05 mm	threaded, natural washer, brass, meret	Scale:	: 2:1 Sheet 2 of 2	