Materials

- (1) Insulator: LCP + 30% glass fiber, UL 94 V-0, gray
- (2) Pin: brass, nickel plated
- (3) Shell: srass, nickel plated
 (4) Spring contact: phosphor bronze, nickel plated
 (5) Switch contact: brass
 (6) Shell contact: brass, nickel plated

Electrical Requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: $30 \text{ m}\Omega$ or less

Mechanical Requirements

Insertion force: 0.4-4 kgf Withdrawal force: 0.4-4 kgf

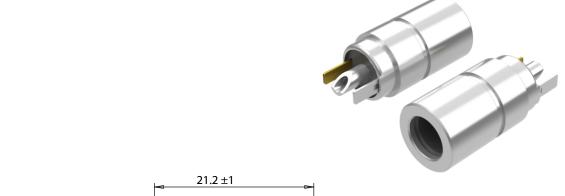
Life cycle: 5000 mating cycles while maintaining 0.4 kgf min. insertion force, 0.4 kgf min. withdrawal force and less than

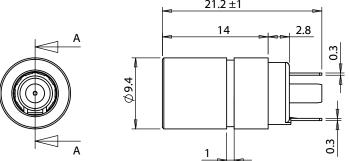
100 m Ω contact resistance.

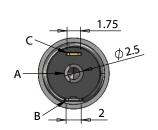
Environmental Requirements
Cold test: -25 ±3 °C for 48 hours without deformation
Heat test: 70 °C, relative humidity 70-85% for 96 hours
without deformation

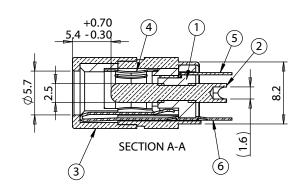
Humidity test: 40 °C, relative humidity 90-100% for 96 hours

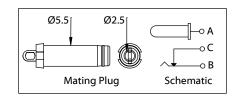
without deformation







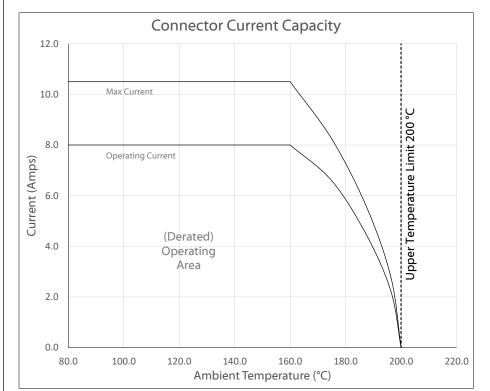




Revision:	Date:	Description:	Prepared:	Notes:		TENSILITY			
A	5/3/2022	Initial release	JD Digitally signed by Date: 2022.05.25 10:22:50 -07'00' Verified:	RoHS compliant					
			AG Digitally signed by AG Date: 2022.05.27 15:34:04-07000 Dimensions are in	Function test: no open, no short circuit, no intermittent				23.3228 <i>800</i> 877.670.7118 23.4202 <i>web</i> tensility.com	
			millimeters. Tolerances: X: ± 0.3 mm	Description: Connector, dc jack, 5.5x2.1xL22.0 mm, nickel	Size: Part number: A 50-00999				
			X.X: ± 0.1 mm X.XX: ± 0.05 mm	plating, molding style, switch		: 2:1		Sheet 1 of 2	
		5	4	3 2			•	1	

Ratings Voltage: 48 V Current: 8 A

Operating Temperature Range -50 ~200 °C



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions based on a 40°C temperature rise difference. Test 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	5/3/2022	Initial release	Digitally signed by JD Date: 2022.05.25 10:23:04 -07'00'	RoHS compliant		TENSILIT			ITY
			Verified: AG Digitally signed by AG Date: 2022.05.27 15:34:22-07'00'	Function test: no open, no short intermittent	circuit, no	tel	1.541.32	.323.3228 800 877.670.7118 .323.4202 web tensility.com	
			Dimensions are in millimeters.	Description:			Part num		
			Tolerances: X: ± 0.3 mm	Connector, dc jack, 5.5x2.1xL22.0 mm, nickel plating, molding style, switch	Α	50-009	50-00999		
			X.X: ± 0.1 mm X.XX: ± 0.05 mm	plating, molding style, switch		Scale:	2:1		Sheet 2 of 2
		5	4	3	2				1