Materials

- (1) Insulator: LCP + 30% glass fiber, UL 94 V-0, gray
- (2) Pin: brass, nickel plated
- 3 Shell: brass, 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: $100 \text{ M}\Omega$ @ 500 Vdc Contact resistance: $30 \text{ m}\Omega$ or less

Mechanical Requirements

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

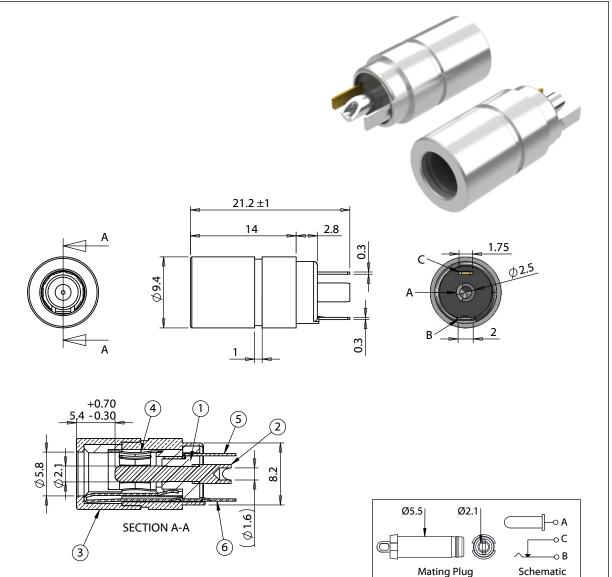
Life cycle: 5000 mating cycles while maintaining 0.4 kgf min. insertion force, 0.4 kgf min. withdrawal force and less than

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

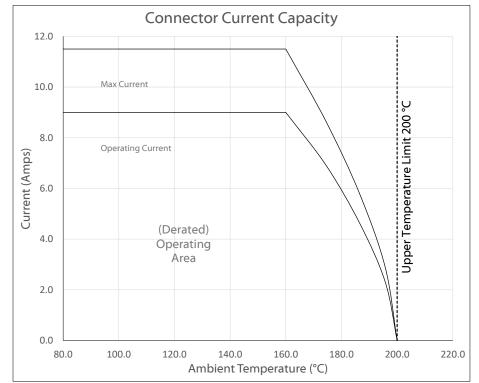
Humidity test: 40 °C, relative humidity 90-100% for 96 hours

without deformation



Revision:	Date:	Description:	Prepared:	Notes:					
Α	5/27/2022	Initial release		RoHS compliant		TENSILITY			
			Verified: Dimensions are in millimeters. Tolerances: X: ± 0.3 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, dc jack, 5.5x2.1xL22 plating, molding style, switch	.0 mm, nickel	Size:	Part number: 50-01002		
		A.	X.X: ± 0.1 mm X.XX: ± 0.05 mm	piating, moiding style, switch		Scale:	2:1		Sheet 1 of 2

5 3 2 -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. 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:		
Α	5/27/2022	Initial release			
			Verified:		
			Dimensions are in millimeters.		
			Tolerances:		
			X: ± 0.3 mm		
			X.X: ± 0.1 mm		
			X.XX: + 0.05 mm		

Notes:

RoHS compliant

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

Description:

Connector, dc jack, 5.5x2.1xL22.0 mm, nickel plating, molding style, switch

TENSILITY

email engineering@tensility.com

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at 541-323-3228

custom version of this cable assembly, call Tensility

see

tel 1.541.323.3228 800 877.670.7118

fax 1.541.323.4202 web tensility.com Part number: Size: 50-01002 Scale: 2:1 Sheet 2 of 2