Materials

- 1. Shell, C3604 brass, 2 μm nickel plated plated
- 2. Center contact, C5191 phosphor bronze, 2 μm nickel
- 3. Insulator, PBT + 15% glass fiber, black

Electrical requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: 30 m Ω or less

Mechanical requirements

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

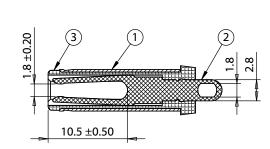
Durability: 5000 mating cycles while maintaining; 0.3-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and a less than 100 m Ω contact resistance.

Environmental requirements

Damp test: 40 °C, $\dot{R}H$ 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

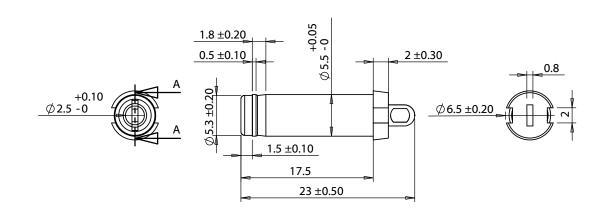
Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .





SECTION A-A

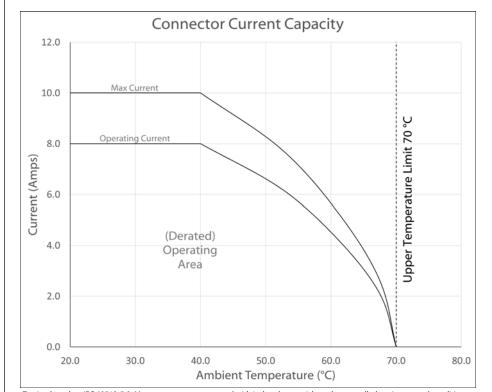


Revision:	Date:	Description:	Prepared:	Notes:				
Α	09/02/2009	Initial release		RoHS and REACH compliant		TENSILITY		
A1	11/09/2012	Added test data	Verified:	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
			Dimensions are in					
			millimeters. Tolerances: X: ± 0.5 mm	Description:		Size: Part number:		
				Connector, dc plug, 5.5x2.5xL23 mm, molding style, spring contacts	e, A	А 50-00026		
			X.X: ± 0.3 mm X.XX: ± 0.05 mm	spinig contacts		e: 2:1 Sheet 1 of 2		

5 4 2

Ratings Maximum operating Voltage: 48 Vdc Operating Current: 8 A

Operating Temperature Range -25° to 70°C, relative humidity of 85% or less



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	09/02/2009	Initial release		RoHS and REACH compliant		ENSIL	ITY		
A1	11/09/2012	Added test data	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 millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm						
				Description:	Size:	Part number:			
				Connector, dc plug, 5.5x2.5xL23 mm, molding style, spring contacts	Α	А 50-00026			
					Scale:	2:1	Sheet 2 of 2		