Materials

- 1. Shell, C3604 brass, 2 µm nickel plated
- 2. Insulator, PBT+ 15% GF, black
- 3. Pin, C3604 brass, 2 um nickel plated
- 4. Spring contact, C5191 phosphor bronze, 2 µm nickel plated

Electrical requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 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 kgf min. insertion force, 0.2 kgf min. withdrawal force and a less

than $100 \text{ m}\Omega$ contact resistance.

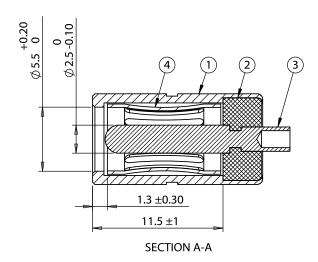
Environmental requirements

Damp test: 40 °C, RH 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.

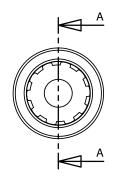
Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 $M\Omega$ @ 500 Vdc minimum and a contact resistance of 100 $m\Omega$ or less.

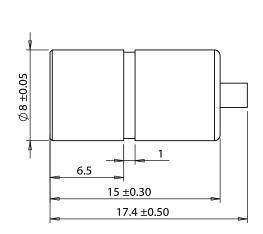
Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

5

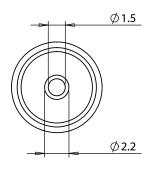








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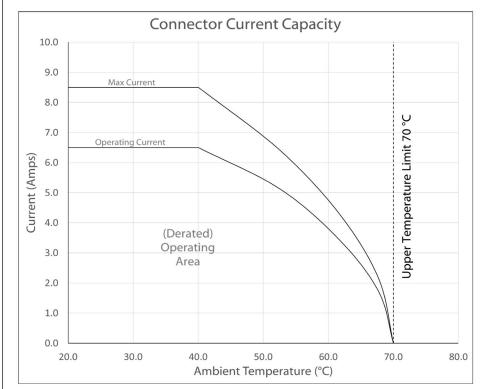


Revision:	Date:	Description:	Prepared:	Notes:						
А	09/02/2009	Intiial release	JP Digitally signed by JP Date: 2018.05.25 10:16:10 -07:00'	RoHS compliant		E	NSIL	ITY		
A1	11/09/2012	Added test data	Verified: AG Digitally signed by AG Date: 2018.05.25 10.33:22 -0700	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118					
A2	05/24/2018	Changed material	Dimensions are in			fax 1.541.323.4202 web tensility.com				
			millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size:	Part number:				
				Connector, dc jack, 5.5x2.5xL17.4 mm, molding	Α	50-00027				
				style	Scale:	3:1		Sheet 1 of 2		

3

Ratings Operating Voltage: 48 Vdc Max Current: 6.5 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:				
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A1	11/09/2012	Added test data	Verified: AG Digitally signed by AG Date: 2018.05.25 10:3337-0700'	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118			
A2	05/24/2018	Changed material	Dimensions are in			fax 1.541.323.4202 web tensility.com		
			millimeters. Tolerances: X: ± 0.5 mm	Description:	Size:	Part number: 50-00027		
				Connector, dc jack, 5.5x2.5xL17.4 mm, molding	Α			
			X.X: ± 0.3 mm X.XX: ± 0.05 mm	style	Scale:	2:1 Sheet 2 of 2		