### Materials

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

### **Electrical requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: 30 m $\Omega$  or less

#### **Mechanical requirements**

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

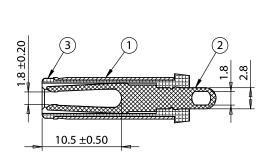
Durability: 5000 mating cycles while maintaining; 0.3-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and a less than 100 m $\Omega$  contact resistance.

## **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 $\Omega$  @ 500 Vdc minimum and a contact resistance of 100 m $\Omega$  or less.

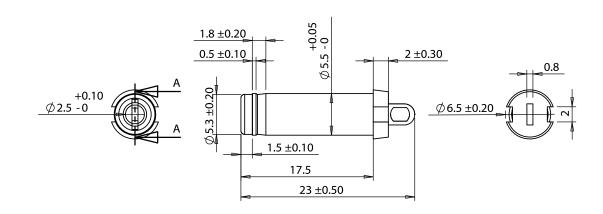
Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50  $M\Omega$  @ 500 Vdc minimum and a contact resistance of 100  $m\Omega$  or less.

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 $\Omega$ .





**SECTION A-A** 



Revision:	Date:	Description:	Prepared:	Notes:					
А	09/02/2009	Initial release	GL Digitally signed by GL Date: 2018.06.28 11:42:49 -07'00'	RoHS compliant  Function test: no open, no short circuit, no intermittent  Description:  Connector, dc plug, 5.5x2.5xL23 mm, molding style, spring contacts		TENSILITY			
A1	11/09/2012	Added test data	Verified:  AG  Digitally signed by AG Date: 2018.06.28 14:04:45-07'00'			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			Scale:	: 2:1	Sheet 1 of 2	

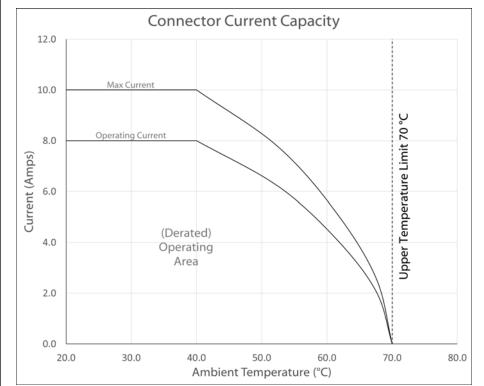
Downloaded from Arrow.com.

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# 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	GL Digitally signed by GL Date: 2018.06.28 11:43:07 -07'00'	RoHS compliant	TENSILITY				
A1	11/09/2012	Added test data	Verified:  AG  Digitally signed by AG Date: 2018.06.28 14:05:02 - 07:00'	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:	Description:	Size:	Size: Part number:			
			X: ± 0.5 mm	Connector, dc plug, 5.5x2.5xL23 mm, molding style, spring contacts		А 50-00026			
			X.X: ± 0.3 mm X.XX: ± 0.05 mm			: 2:1	Sheet 2 of 2		