

Materials

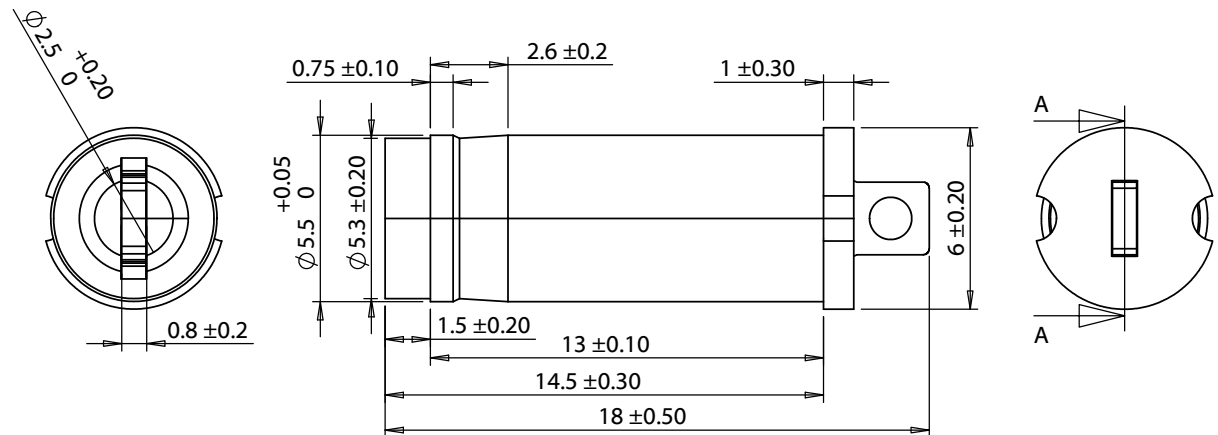
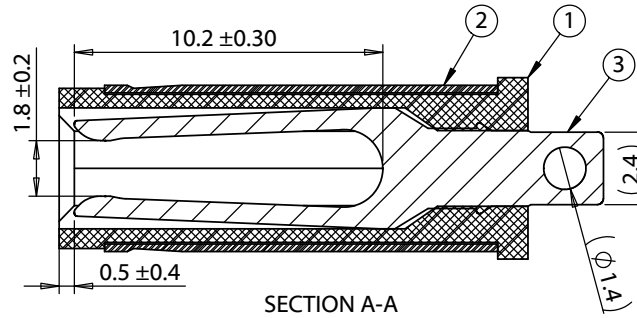
1. Insulator: PBT (Halogen Free), UL 94 V-0, black
2. Shell: Brass C2700, $\geq 2 \mu\text{m}$ nickel plated
3. Spring contac: C5191, $\geq 2 \mu\text{m}$ nickel plated

Electrical Requirements

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

Mechanical Requirements

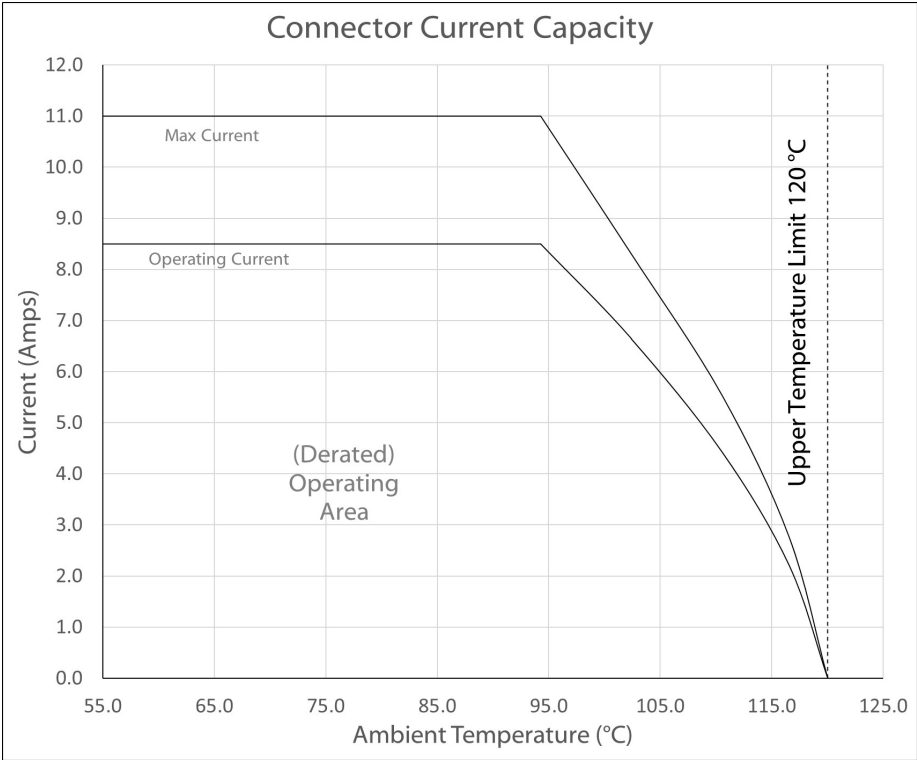
Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Life cycle: 5000 mating cycles while maintaining 0.3-2 kgf min.
insertion force, 0.2-1.5 kgf min. withdrawal force and less than
100 m Ω contact resistance.



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	01/22/2024	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: $\pm 0.3 \text{ mm}$ X.X: $\pm 0.2 \text{ mm}$ X.XX: $\pm 0.05 \text{ mm}$	Description: Connector, dc plug, 5.5x2.5xL18 mm, molding style, spring contacts, Halogen Free	Size: A	Part number: 50-00707	
					Scale: 4:1		Sheet 1 of 2

Ratings
Maximum Operating Voltage: 48 Vdc
Maximum Operating Current: 8.5 A

Operating Temperature Range
-25° to 120 °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.

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