



**Ratings**

Voltage: 48 Vdc  
Current: 9.0 A

**Operating Temperature Range**

-30° to 180°C

**Electrical Requirements**

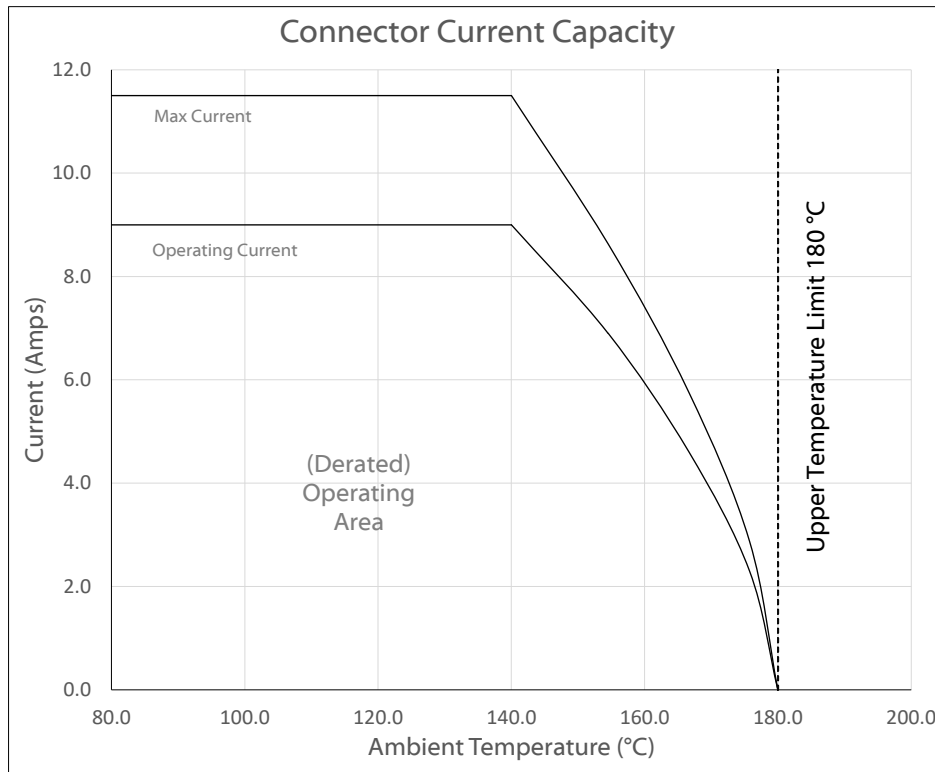
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 30 mΩ or less

**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 mΩ contact resistance.

**Environmental Requirements**

Cold test: -25 ±3 °C for 48 hours without deformation  
Heat test: 70 ±2 °C, relative humidity 70-85% for 48 hours without deformation  
Humidity test: 40 ±2 °C, relative humidity 90-95% for 48 hours without deformation



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 difference. 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:	Notes:	<b>TENSILITY</b> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com	
A	6/16/2022	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent		
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description:	Size: Part number:	
				Connector, dc jack w/switch, 5.5x2.1xL22 mm, panel mount, threaded, nut and washer, IP67	A 54-00309	
				Scale: 2:1	 	Sheet 2 of 2

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