



**Ratings**

Voltage: 48V  
Current: 10.5A

**Operating Temperature**

-40°C ~ 95°C

**Electrical Requirements**

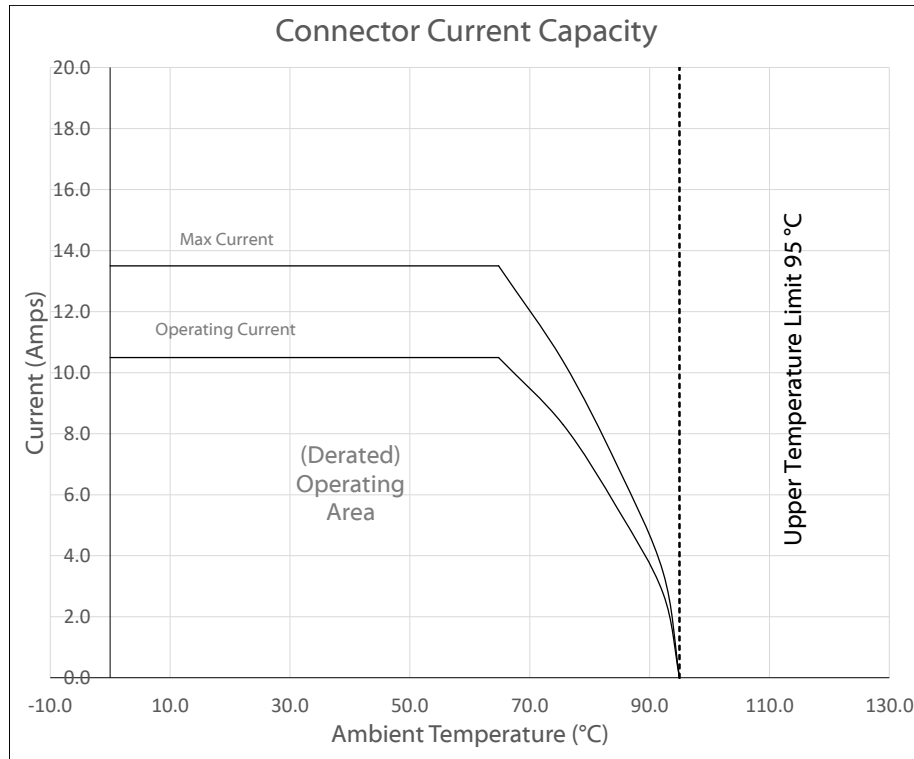
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 30 mΩ or less

**Mechanical Requirements**

Life cycle: 5000 mating cycles minimum  
Insertion force: 0.3~4 kgf  
Withdrawal force: 0.3~4 kgf

**Environment Requirements**

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.  
Salt spray test: 5% salt water (PH 6.5-7.2) for 48 hours without deformation.



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:	<b>TENSILITY</b> <i>tel</i> 1.541.323.3228 <i>800</i> 877.670.7118 <i>fax</i> 1.541.323.4202 <i>web</i> tensility.com		
A	02/27/2025	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: A 54-00410		
				Connector, dc jack, 5.5x2.0xL26.30 mm, panel mount, thru hole, nickel plated, IP68, threaded, nut and washer	Scale: 2:1		Sheet 2 of 2