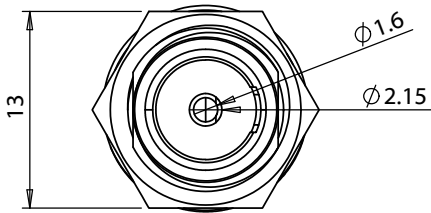
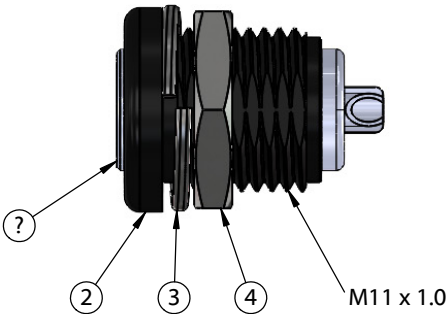
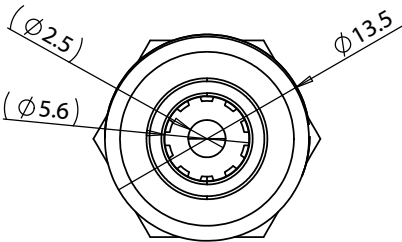
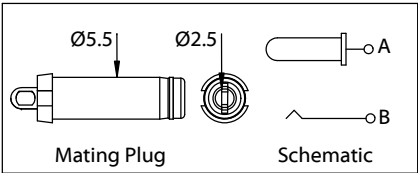
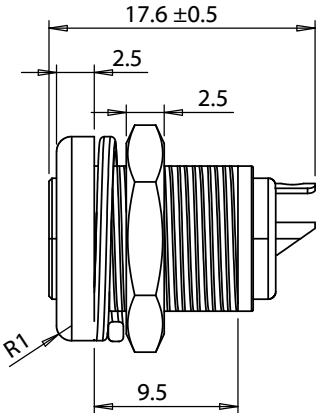
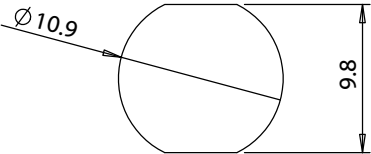


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	COMPONENT NOTES
1	50-01095	Connector, dc jack, 5.5x2.5xL17.6 mm, molding style, spring contacts, nickel plated, 200 °C	1	
2	24-00287	Overmold, jack, 13.5x14 mm, panel mount	1	LCP, 94V-0, black
3	56-00001	Hardware, washer, lock, 14x11.1x1.1 mm, SPCC, nickel plated	1	
4	56-00000	Hardware, nut, hex, 13x2.5 mm, M11x1.0, brass, nickel plated	1	

Installation Details

Panel thickness: 1.5 - 4.5  
Recommended panel cutout:



Revision:	Date:	Description:	Prepared:	Notes:	<div>TENSILITY</div> <div> tel 1.541.323.3228 800 877.670.7118  fax 1.541.323.4202 web tensility.com </div>	
A	05/14/2025	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:
				Connector, dc jack, 5.5x2.5xL17.6 mm, panel mount, nickel plated, threaded, nut and washer	A	54-00402
					Scale: 2:1	Sheet 1 of 2

**Ratings**

Maximum Operating Voltage: 48 Vdc  
Maximum Operating Current: 10 A

**Operating Temperature Range**

-50°~200 °C

**Electrical Requirements**

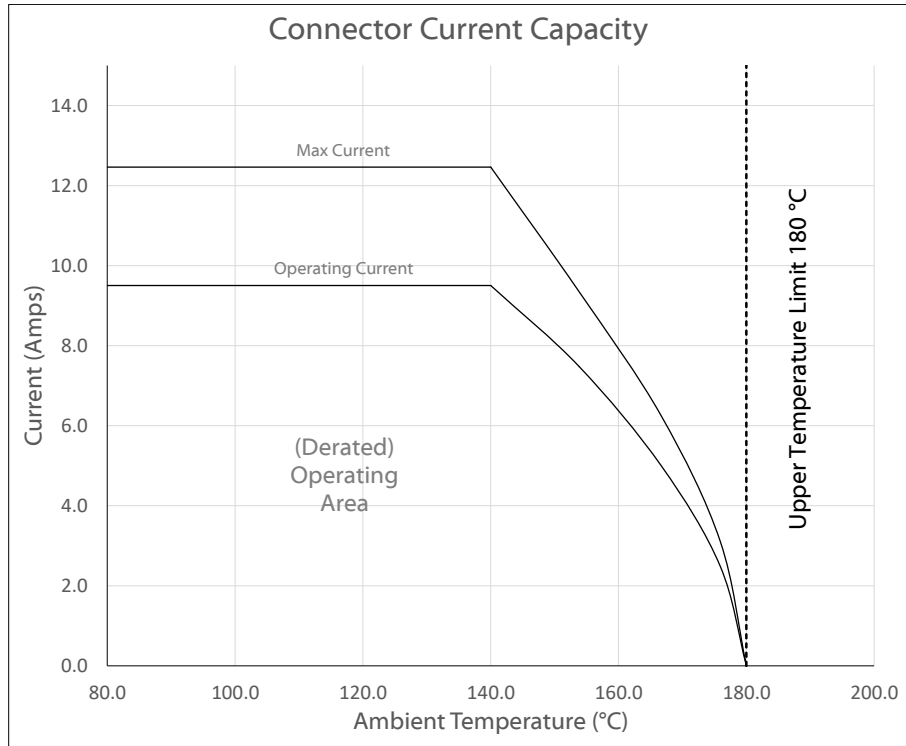
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 30 mΩ or less

**Mechanical Requirements**

Insertion force: 0.3-3 kgf  
Withdrawal force: 0.3-3 kgf  
Life cycle: 5000 mating cycles while maintaining 0.3-2.0 kgf min. insertion force, 0.2-1.5 kgf min. withdrawal force and less than 100 mΩ contact resistance.

**Environmental Requirements**

Heat test: 70 °C, relative humidity 70-85% for 96 hours while maintaining contact resistance: 100 mΩ maximum, insulation resistance: 50 MΩ @500 Vac, without looseness or deformation  
Humidity test: 40 °C, relative humidity 90-100% for 96 hours while maintaining dielectric strength: 1 min. @ 500 Vac, insulation resistance: 50 MΩ @ 500 Vdc, contact resistance: 100 mΩ maximum  
Salt spray test: 35 ±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 mΩ.



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:	<div>TENSILITY</div> <div>tel 1.541.323.3228 800 877.670.7118</div> <div>fax 1.541.323.4202 web tensility.com</div>		
A	05/14/2025	Initial release	Verified:	RoHS compliant			
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Function test: no open, no short circuit, no intermittent	Part number: 54-00402		
				Description: Connector, dc jack, 5.5x2.5xL17.6 mm, panel mount, nickel plated, threaded, nut and washer	Size: A		
					Scale: 2:1		Sheet 2 of 2

5

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