ITEM NO.	PART NUMBER	DESCRIPTION		NOTES
1	50-01002	Connector, dc jack, 5.5x2.1xL22.0 mm, nickel plating, molding style, switch		
2	24-00387	Overmold, jack, Ø15 mm, panel mount, M12x1.0		LCP, black
3	55-00177	Gasket, Ø12 ID x Ø15 OD x 1.5mm, silicone, black	1	
4	56-00024	Hardware, nut, hex, 15x2.5 mm, M12x1.0, brass, nickel plated	1	
5	56-00025	Hardware, washer, lock, M12, nickel plated	1	
6	Ероху	Epoxy resin, high temperature	1	

## **Installation Details**

Panel thickness: 4.5 mm max Recommended panel cutout:













Notes: Panel ingress protection: IP67

Revision:	Date:	Description:	Prepared:	Notes:						
A	6/16/2022	Initial release		RoHS compliant				NSIL	ITY	
			Verified:	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			
			millimeters. Tolerances: X: ± 0.3 mm	Description: Connector, dc jack w/switch, 5.5x2.1xL22 mm, panel			Size: Part number: A 54-00309			
			X.X: ± 0.1 mm X.XX: ± 0.05 mm	mount, threaded, nut and washer, IP67		Scale:	2:1	$\bigcirc \bigcirc$	Sheet 1 of 2	
		5	4	3	2				1	

Ratings Voltage: 48 Vdc Current: 9.0 A Operating Temperature Range			12.0	Connector Current Ca	apacity		
-30° to 180 Electrical F Dielectric Insulation Contact re Mechanica Insertion f Withdraw Life cycle: insertic 100 mΩ Environme Cold test: Heat test: withou Humidity	D°C Requirements strength: 1 min 6 resistance: 100 esistance: 30 mΩ I Requirements orce: 0.4-4 kgf al force: 0.4-4 kgf 5000 mating cyo on force, 0.4 kgf 2 contact resistant ental Requirement -25 ±3 °C for 48 70 ±2 °C, relative t deformation	@ 500 Vac $M\Omega$ @ 500 Vdc $\Omega$ or less <b>f</b> cles while maintaining 0.4 kgf min. min. withdrawal force and less than nce.	10.0 0000000000000000000000000000000000	urrent ting Current (Derated) Operating Area 100.0 120.0 140.0 Ambient Temperatu 12-5-2. Max current curve generated with isolated test a ture rise difference. Test does not take into account extu p current curve (derated by 20% of maximum values) acc	160.0 180.0 UTE (°C) article under controlled environmer ernal factors such as housings,ma	iental conditions, ating cables, or	
Revision:	Date:	Description:	Prepared:	Notes:			
A	6/16/2022	Initial release	Verified:	RoHS compliant Function test: no open, no short ci		<b>TENS</b>	800 877.670.7118
		5	Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	intermittent Description: Connector, dc jack w/switch, 5.5x2 mount, threaded, nut and washer, 3	.1xL22 mm, panel	fax 1.541.323.4202   ze: Part number:   A 54-00309   cale: 2:1	Sheet 2 of 2

To see a custom version of this cable assembly, call Tensility at 541-323-3228 or email engineering@tensility.com