

**Style**

M12 Plug, shielded  
4 pin  
A-coding

**Ratings**

Voltage: 250 V  
Current: 4A

**Operating Temperature Range**

-40 ~ 105 °C

**Materials**

- ① Insulator: Polyamide 66 (PA66), UL94 HB, black
- ② Pin: C3604 brass, gold plated
- ③ Shell: C3604 brass, nickel plated
- ④ Nut: C3604 brass, nickel plated
- ⑤ O-ring: Silicone rubber

**Electrical Requirements**

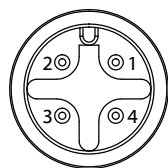
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 10 mΩ or less

**Mechanical Requirements**

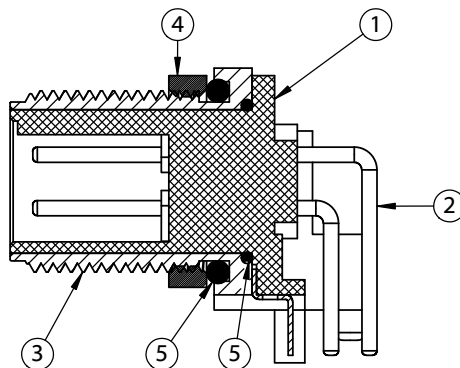
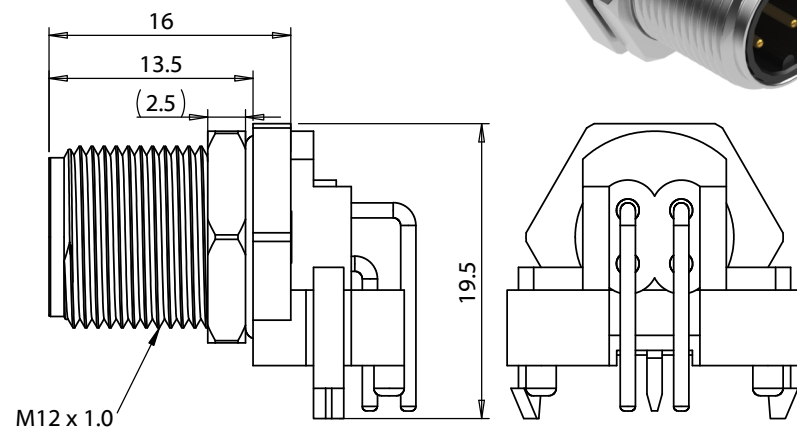
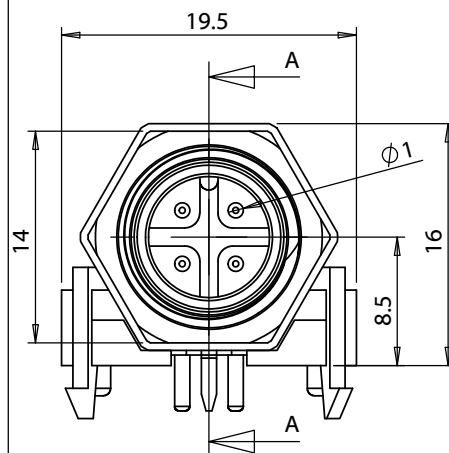
Life cycle: 500 mating cycles minimum

**Environmental Requirements**

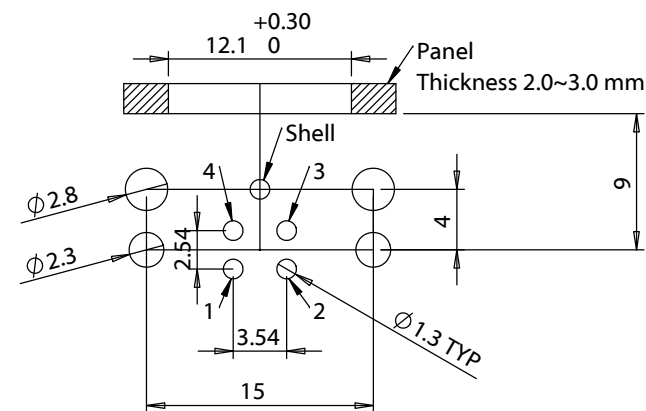
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.  
Waterproof: IP67 (in mated state). IP67 panel ingress requires sealing cap



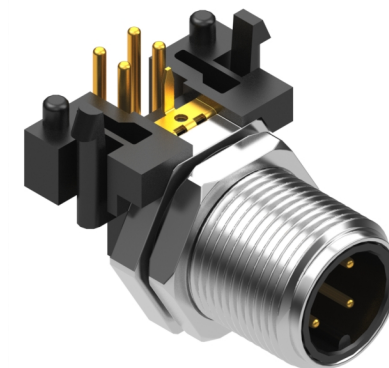
Front View  
Not to Scale



SECTION A-A



PCB Layout



Revision:	Date:	Description:	Prepared:	Notes:	<div style="text-align: center;"> <h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118</p> <p>fax 1.541.323.4202 web tensility.com</p> </div>
A	9/30/2020	Initial release	Verified:	RoHS compliant	
				Function test: no open, no short circuit, no intermittent	
			Dimensions are in millimeters.	Description:	
			Tolerances:	Connector, M12 A-code plug, 4 pin, 12xL24.3 mm, panel mount, thru hole, 90°, board lock, gold plated, IP67	
			X: ± 0.5 mm		Size: A
			X.X: ± 0.3 mm		Part number: 54-00249
			X.XX: ± 0.1 mm		Scale: 2:1
					Sheet 1 of 1