

**Style**

M12 Socket, shielded  
8 pin  
A-coding

**Ratings**

Voltage: 30 V  
Current: 2 A

**Operating Temperature Range**

-40~105°C

**Materials**

- ① Insulator: Polyamide 66 (PA66), UL94 HB, black
- ② Pin: C5191 phosphor bronze, gold plated
- ③ Shell: C3604 brass, nickel plated
- ④ Nut: C3604 brass, nickel plated
- ⑤ O-ring: Silicone rubber
- ⑥ Epoxy: Epoxy resin

**Electrical Requirements**

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

**Mechanical Requirements**

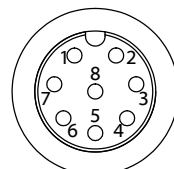
Life cycle: 500 mating cycles minimum

**Environmental Requirements**

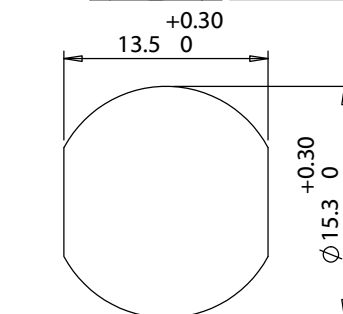
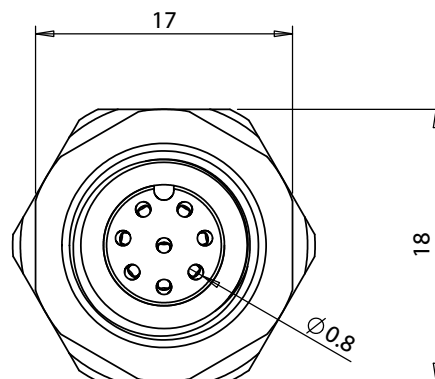
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.  
Waterproof: IP67

**Assembly Info**

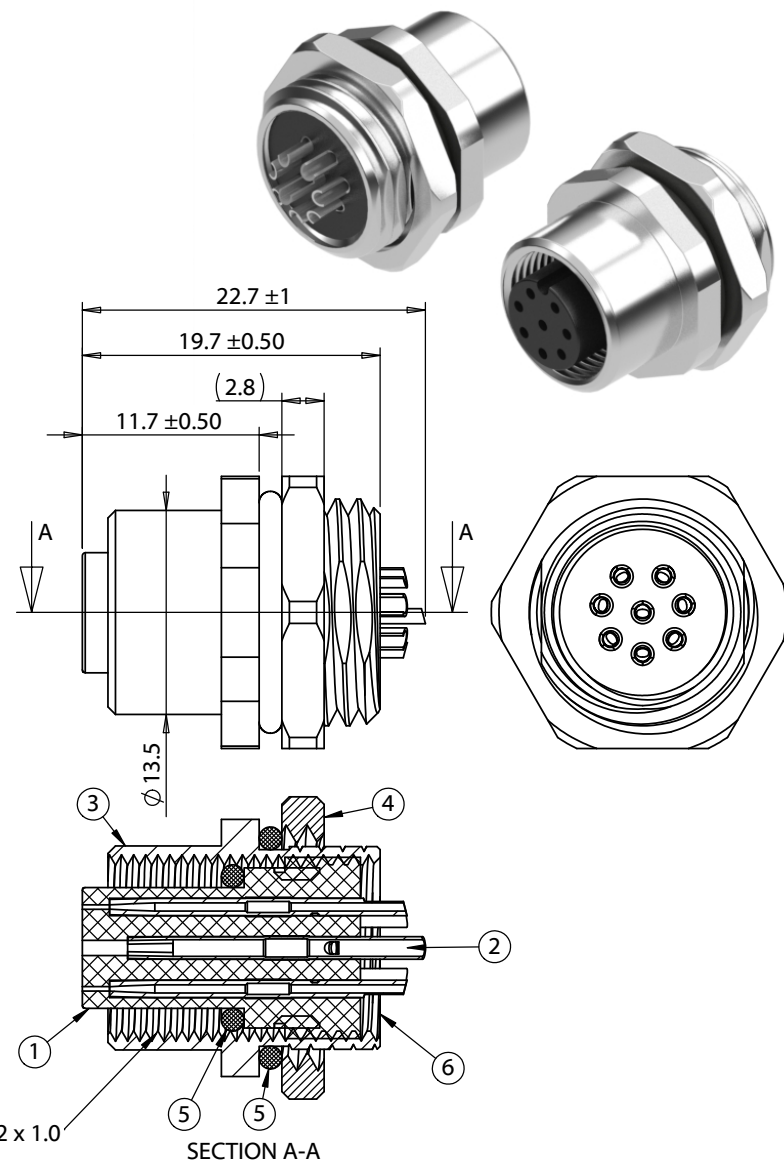
Wire gauge: 24 AWG max



Front View  
Not to Scale



Panel cutout (PG9)  
Panel thickness (3.5mm max.)



Revision:	Date:	Description:	Prepared:	Notes:	<div style="text-align: center;"> <h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p> </div>		
A	10/1/2020	Initial release	Verified:	RoHS compliant			
				Function test: no open, no short circuit, no intermittent	<div> <div>Size: A</div> <div>Part number: 54-00184</div> </div>		
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, M12 A-code socket, 8 pin, 12xL22.7 mm, panel mount, solder cup, gold plated, IP67			
					Scale: 2:1		Sheet 1 of 1