

Style

M12 Plug, 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: C3604 brass, 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

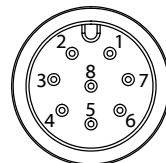
Life cycle: 500 mating cycles minimum

Environmental Requirements

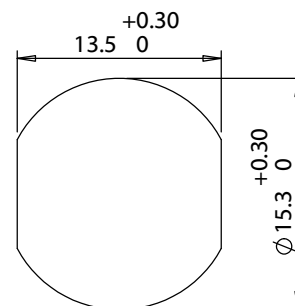
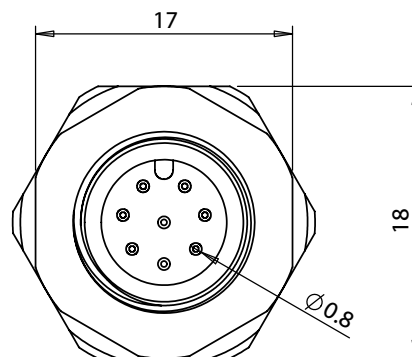
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67

Assembly Info

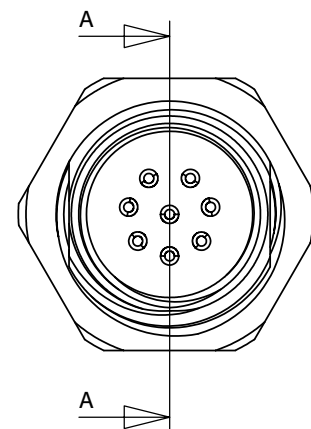
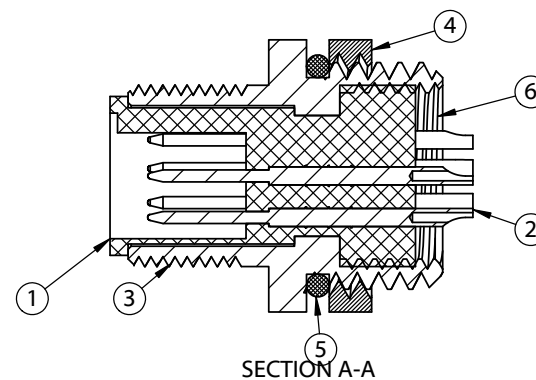
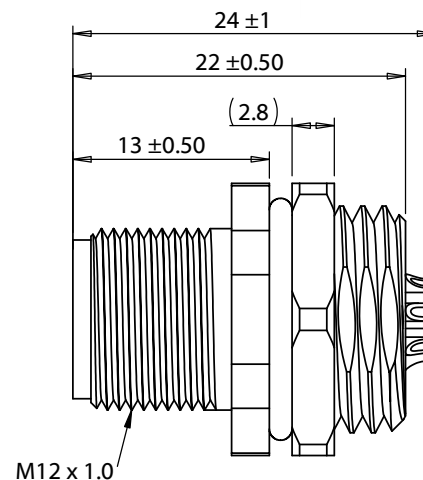
Wire gauge: 24 AWG max



Front View
Not to Scale



Panel cutout (PG9)
Panel thickness (4.5mm max.)



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	10/1/2020	Initial release	Verified:	RoHS compliant		
				Function test: no open, no short circuit, no intermittent	Size:	Part number:
			Dimensions are in millimeters.	Description:	A	54-00191
			Tolerances:	Connector, M12 A-code plug, 8 pin, 12xL24 mm, panel mount, solder cup, gold plated, IP67	Scale:	2:1
			X: ± 0.3 mm			
			X.X: ± 0.1 mm			
			X.XX: ± 0.05 mm			