

Style

M12 Plug, shielded
3 pin
A-coding

Ratings

Voltage: 250 V
Current: 4 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

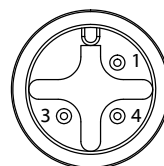
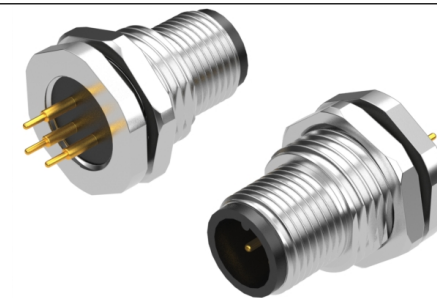
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 10 mΩ or less

Mechanical Requirements

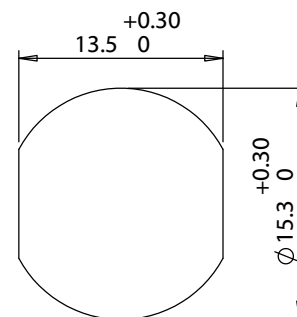
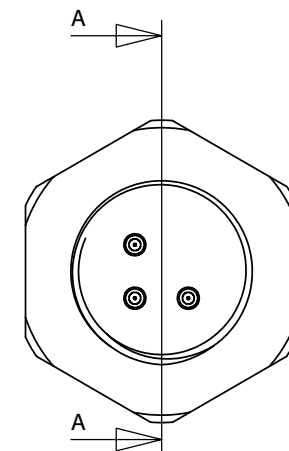
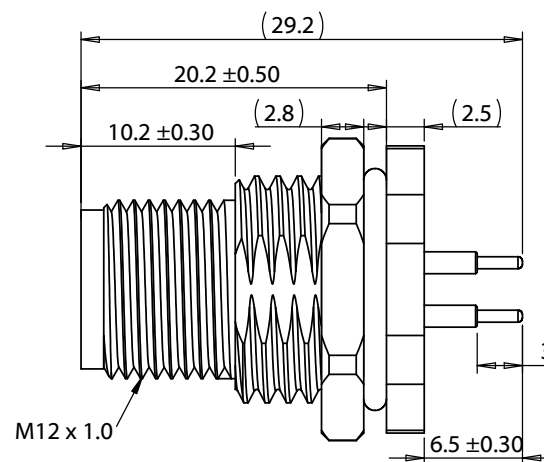
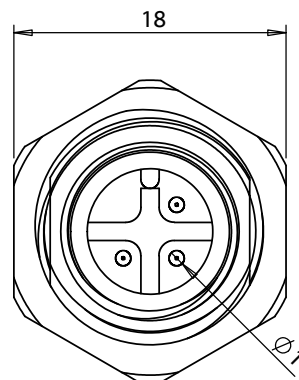
Life cycle: 500 mating cycles minimum

Environmental Requirements

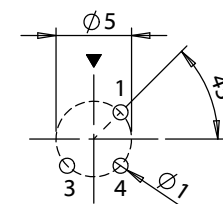
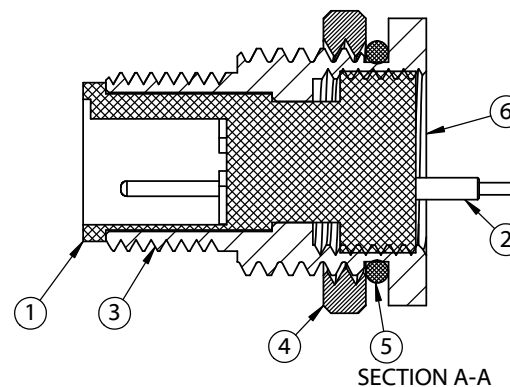
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67



Front View
Not to Scale



Panel cutout (PG9)
Panel thickness (5.0mm max.)



PCB Layout

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	10/6/2020	Initial release	Verified:	RoHS compliant	
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	
			Tolerances:	Description:	
			X: ± 0.3 mm	Connector, M12 A-code plug, 3 pin, 12xL29.2 mm, panel mount, thru hole, gold plated, IP67	Size: A
			X.X: ± 0.1 mm		Part number: 54-00215
			X.XX: ± 0.05 mm		Scale: 2:1
					Sheet 1 of 1