

Style

M12 Plug
4 pin
S-coding

Ratings

Voltage: 630 Vac
Current: 12 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 Hex nut: C3604 brass, nickel plated
- ⑤ O-ring: Silicone rubber
- ⑥ Epoxy: Epoxy resin

Electrical Requirements

Insulation resistance: 100 MΩ @500 Vdc
Contact resistance: 10 mΩ or less

Mechanical Requirements

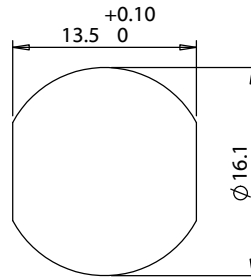
Life cycle: 500 mating cycles minimum

Environmental Requirements

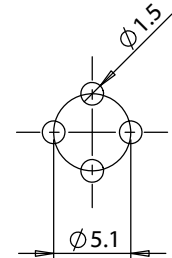
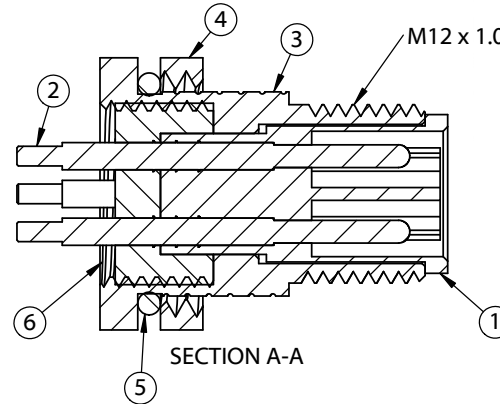
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ
Waterproof: IP67



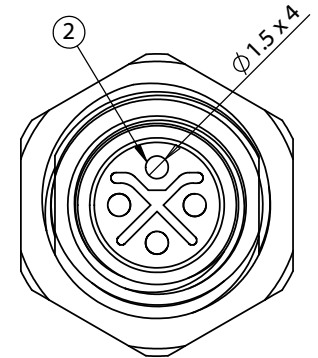
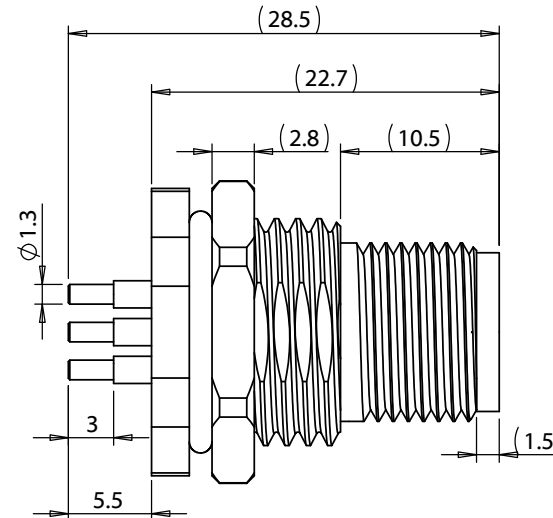
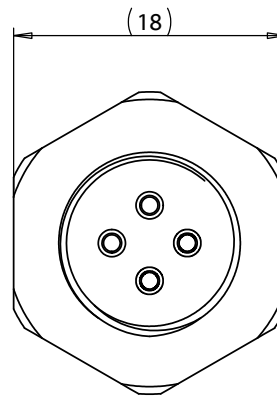
Front View
Not to scale



Panel cutout (M16 x 1.5)
Panel thickness (4.5mm max.)



PCB Layout



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>		
A	03/12/2025	Initial release	Verified:	RoHS compliant			
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	Size:	Part number:	
			Tolerances:	Description:	A	54-00443	
			X: ± 0.3 mm	Connector, M12 S-code plug, 4 pin, 12xL28.5 mm, panel mount, thru hole, gold plated, IP67	Scale:	2:1	Sheet 1 of 1
			X.X: ± 0.1 mm				
			X.XX: ± 0.05 mm				