

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

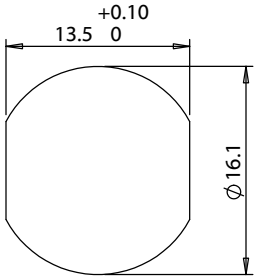
Life cycle: 500 mating cycles minimum

Envorinmental Requirements

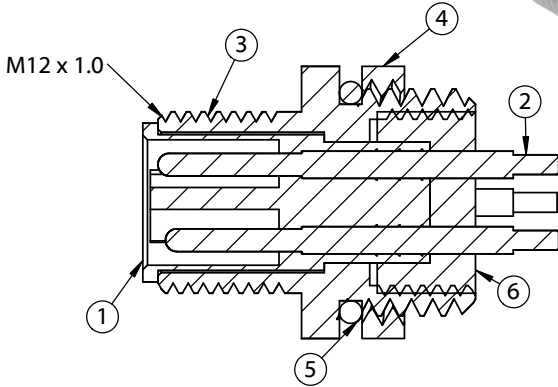
Salt spray test: 35 °C, relative humidity 90-95% NaCl mist for 48 hrs. Wash parts after test. Mantain mechanical requierements and a contact of less than 10mΩ
Waterproof: IP67



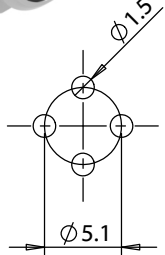
Front View
Not to scale



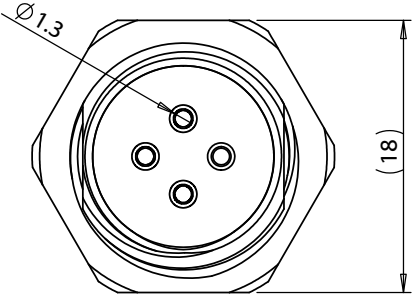
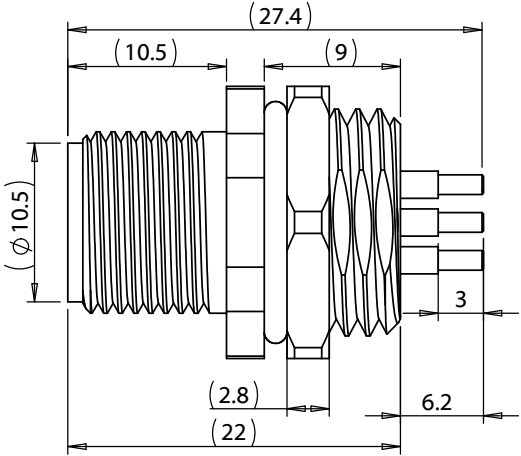
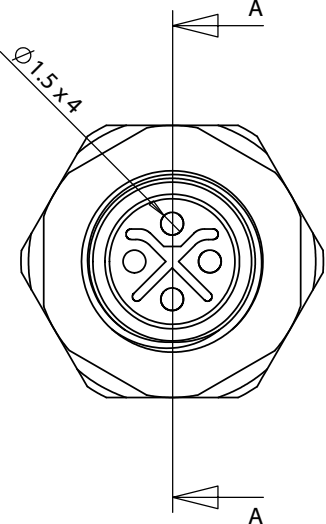
Panel cutout (M16 x 1.5)
Panel thickness (4.5mm max.)



SECTION A-A



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	03/10/2025	Initial release	Verified:	RoHS compliant		
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	Size:	Part number:
			Tolerances:	Description:	A	54-00459
			X: ± 0.3 mm	Connector, M12 S-code plug, 4 pin, 12xL27.4 mm, panel mount, thru hole, gold plated, IP67	Scale:	2:1
			X.X: ± 0.1 mm			Sheet 1 of 1
			X.XX: ± 0.05 mm			