

### Style

M12 Plug  
5 pin  
L-coding

### Ratings

Voltage: 63 Vdc  
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

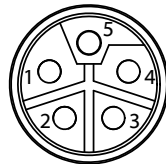
Life cycle: 500 mating cycles minimum

### Environmental Requirements

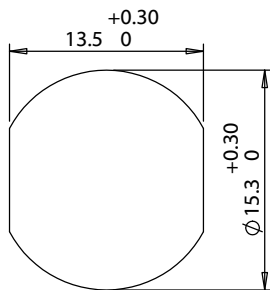
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ  
Waterproof: IP67

### Assembly Info

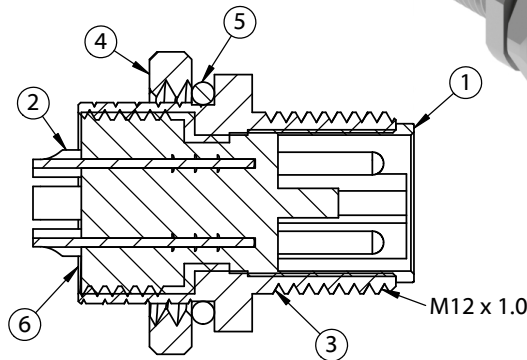
Wire gauge: 18 AWG max



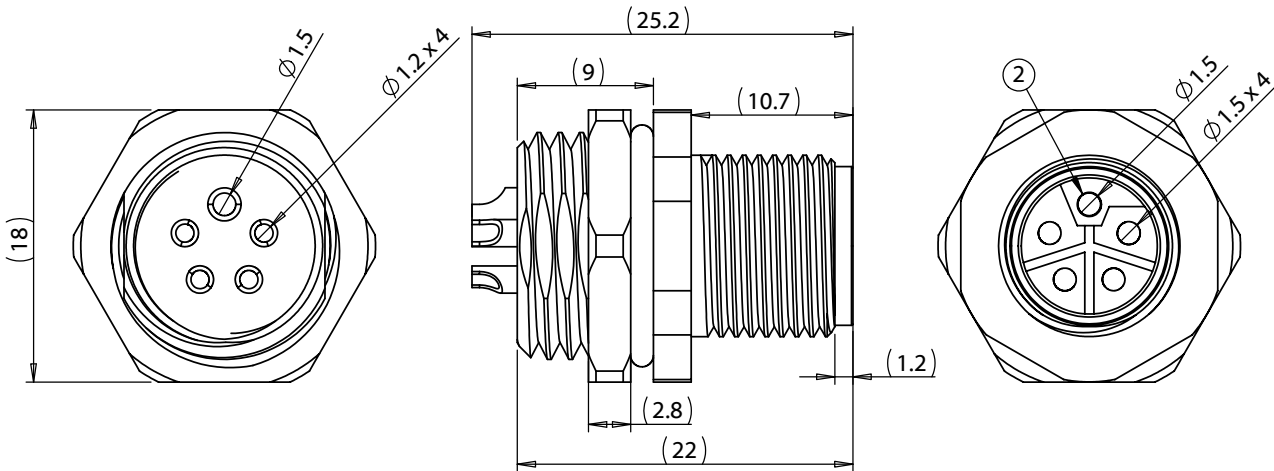
Front View  
Not to scale



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



SECTION A-A



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	03/10/2025	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent		
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, M12 L-code plug, 5 pin, 12xL25.2 mm, panel mount, solder cup, gold plated, IP67	Size: A	Part number: 54-00455
					Scale: 2:1	Sheet 1 of 1