

**Style**

M12 Plug, shielded  
5 pin  
D-coding

**Ratings**

Voltage: 60 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 M12 Shell: Brass, nickel plated
- ④ Outer Shell: Zinc Alloy, nickel plated
- ⑤ Collect nut: Brass, nickel plated
- ⑥ Collect: Polyamide 66 (PA66), UL94 HB
- ⑦ O-ring: Nitrile rubber, black & green

**Electrical Requirements**

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

**Mechanical Requirements**

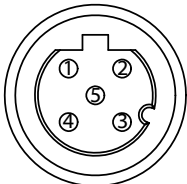
Life cycle: 500 mating cycles minimum

**Environmental Requirements**

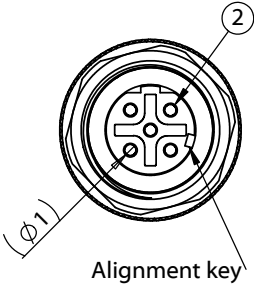
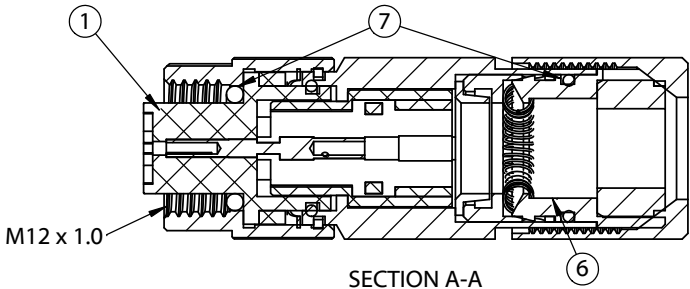
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.  
Waterproof: IP67

**Assembly Info**

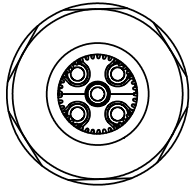
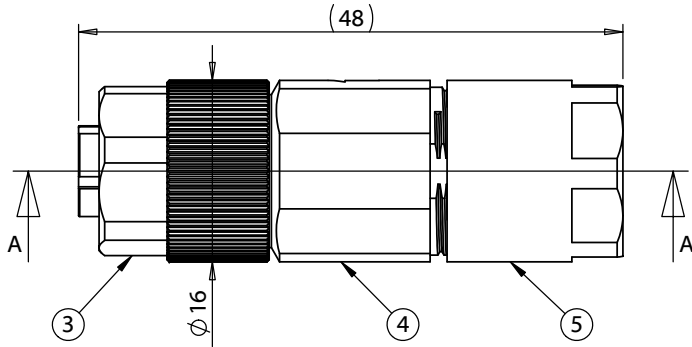
Wire gauge: 22 AWG max  
Wire size: Ø 4~6 mm  
Terminal style: crimp



Front View  
Not to Scale



Alignment key



Revision:	Date:	Description:	Prepared:	Notes:	<div>TENSILITY</div> <div>tel 1.541.323.3228 800 877.670.7118</div> <div>fax 1.541.323.4202 web tensility.com</div>		
A	05/02/2024	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, 5 pin M12 D-code socket, 12xL48mm, gold plated, assembly style, crimp, IP67, shielded	Size: A	Part number: 55-00257	
					Scale: 1.5:1		Sheet 1 of 1