

**Style**  
M12 Plug, shielded  
4 pin  
A-coding

**Ratings**  
Voltage: 250 V  
Current: 4 A

**Operating Temperature Range**  
-40~105°C

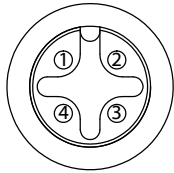
**Materials**  
① Insulator: Polyamide 66 (PA66), UL94 HB, black  
② Pin: C3604 Brass, gold plated  
③ M12 Shell: Brass, nickel plated  
④ Outer Shell: Zinc Alloy, nickel plated  
⑤ Collect nut: Brass, nickel plated  
⑥ Collect: Polyamide 66 (PA66), UL94 HB  
⑦ O-ring: Nitrile rubber, black & green

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

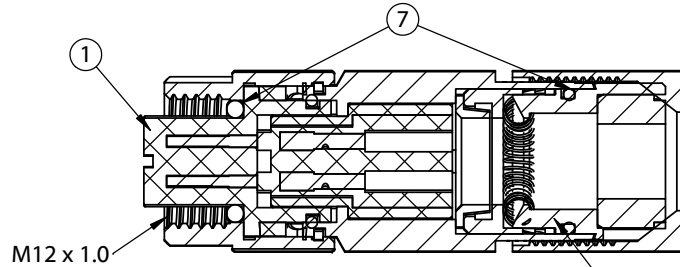
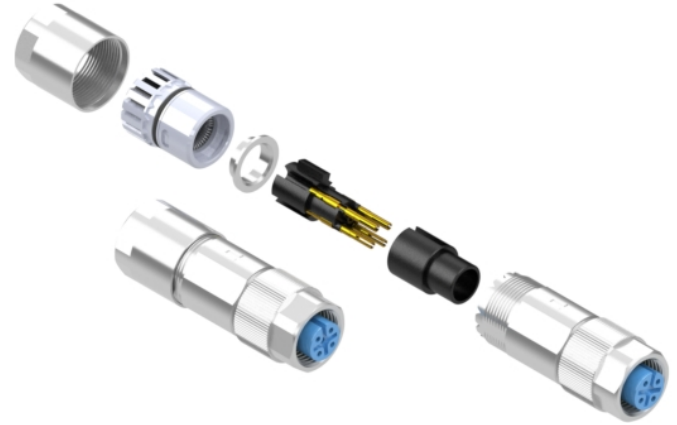
**Mechanical Requirements**  
Life cycle: 500 mating cycles minimum

**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

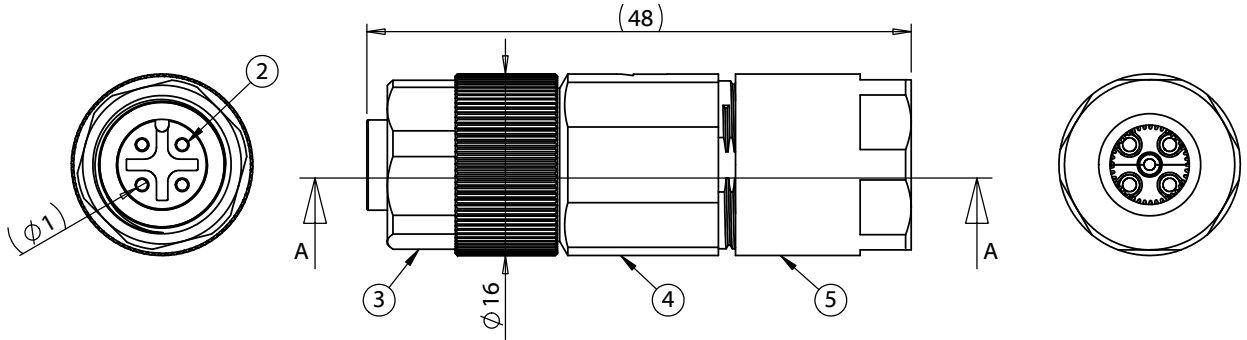
**Assembly Info**  
Wire gauge: 22 AWG max  
Wire size:  $\varnothing$  4~6 mm  
Terminal style: crimp

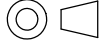


Front View  
Not to Scale



SECTION A-A



Revision:	Date:	Description:	Prepared:	Notes:	<b>TENSILITY</b> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	04/30/2024	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: $\pm$ 0.3 mm X.X: $\pm$ 0.1 mm X.XX: $\pm$ 0.05 mm	Description: Connector, 4 pin M12 A-code socket, 12xL48mm, gold plated, assembly style, crimp, IP67, shielded	Size: A	Part number: 55-00254	Scale: 1.5:1  Sheet 1 of 1