

Style
M12 Plug, shielded
8 pin
X-coding

Ratings
Voltage: 50 V
Current: 0.5 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 Collet nut: Brass, nickel plated
 - ⑥ Collet: Polyamide 66 (PA66), UL94 HB
 - ⑦ O-ring: Nitrile rubber, black

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

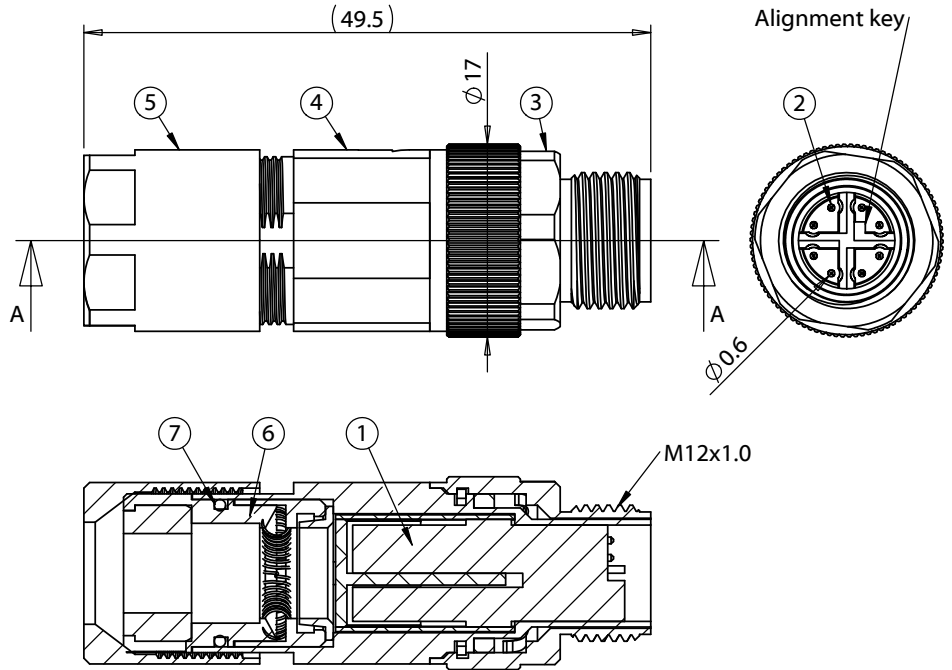
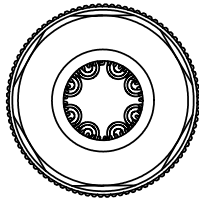
Mechanical Requirements
Life cycle: 500 mating cycles minimum

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 guage: 24 AWG max
Wire size: Ø 6~8 mm
Terminal style: crimp



Front view
Not to Scale



SECTION A-A

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	02/28/2024	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:	Size:	Part number:	
				Connector, 8 pin M12 X-code plug, 12xL49.5mm, gold plated, assembly style, crimp, IP67, shielded	A	55-00259	
					Scale: 1.5:1		Sheet 1 of 1