

Style
M12 Socket, shielded
6 pin
A-coding

Ratings
Voltage: 30 V
Current: 2 A

Operating Temperature Range
-40 ~ 105 °C

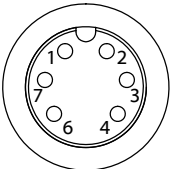
Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Socket: C5191 Phosphor bronze, gold plated
③ Shell: C3604 brass, nickel plated
④ O-ring: Silicone rubber

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

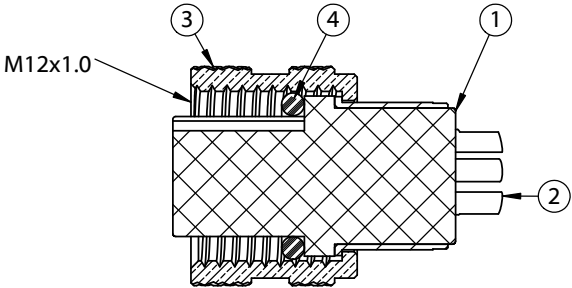
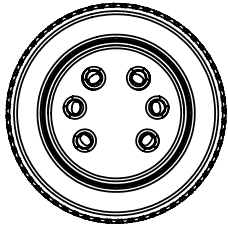
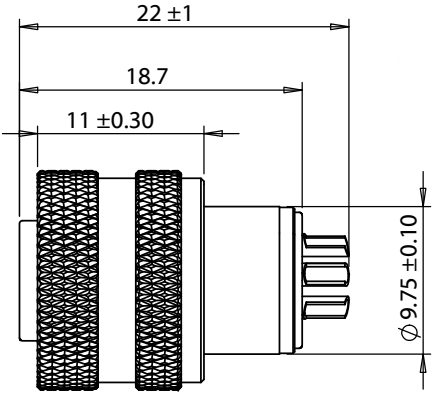
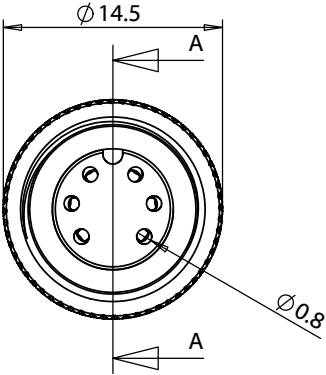
Mechanical Requirements
Life cycle: 500 mating cycles minimum

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: 24 AWG max



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	7/22/2020	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, M12 A-code socket, 6 pin, 12xL22 mm, molding style, solder cup, gold plated, IP67, shielded	A	50-00982	
					Scale: 2:1		Sheet 1 of 1