**Style** M12 Socket, shielded 3 pin A-coding

Ratings Voltage: 250 V Current: 4 A

# Operating Temperature Range $-40 \sim 105 \, ^{\circ}\text{C}$

### Materials

- (1) Insulator: Polyamide 66 (PA66), UL94 HB, black (2) Pin: C3604 brass, gold plsted (3) Shell: C3604 brass, nickel plated (4) O-ring: Nitrile rubber, green

Electrical Requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 M $\Omega$  @ 500 Vdc Contact resistance:  $10 \text{ m}\Omega$  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 m $\Omega$ . Waterproof: IP67

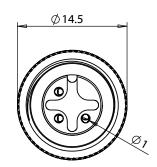
5

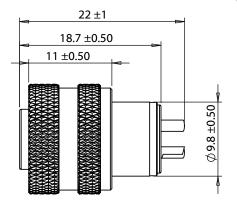
## **Assembly Info**

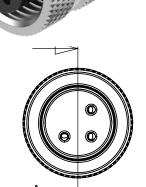
Wire gauge: 22 AWG max

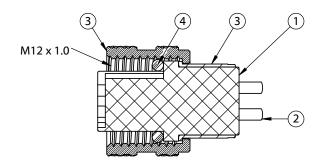


Front View Not to Scale









**SECTION A-A** 

Revision:	Date:	Description:	Prepared:	Notes:				
Α	7/22/2020	Initial release		RoHS compliant		F	<b>JISI</b>	ITY
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.3 mm	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
				Description:	Size: Part number:			
				Connector, 3 pin M12 A-code socket, 12xL22mm, gold plated, molding style, solder cup, IP67, shielded	Α	50-00979		
			X.X: ± 0.1 mm X.XX: ± 0.05 mm		Scale:	2:1		Sheet 1 of 1