## Style

M12 Socket, shielded 3 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: C5191 phosphor bronze, gold plated
  3 Shell: C3604 brass, nickel plated
  4 Nut: C3604 brass, nickel plated

- (5) O-ring: Nitrile rubber, green/black

## **Electrical Requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance:  $10 \text{ m}\Omega$  or less

## **Mechanical Requirements**

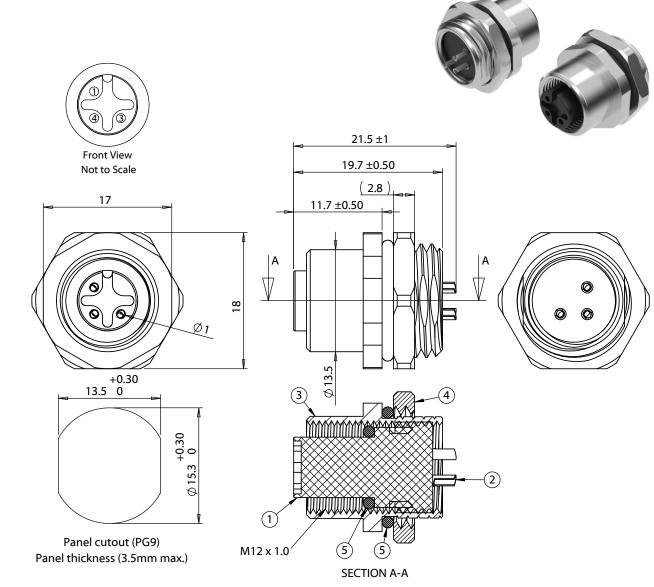
Life cycle: 500 mating cycles minimum

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

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### **Assembly Info**

Wire gauge: 22 AWG max



Revision:	Date:	Description:	Prepared:	Notes: RoHS compliant Function test: no open, no short circuit, no intermittent						
Α	10/1/2020	Initial release				TENSILITY  tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com				
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.3 mm							
				Description:			Size: Part number:			
				Connector, 3 pin M12 A-code socket, 12xL21.5mm, gold plated, panel mount, solder cup, IP67		Α	54-00180			
			X.X: ± 0.1 mm X.XX: ± 0.05 mm			Scale:	2:1		Sheet 1 of 1	