

**Style** M12 Plug, shielded 8 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) Pin: C3604 brass, gold plated (3) Shell: C3604 brass, nickel plated (4) Nut: C3604 brass, nickel plated

- (5) O-ring: Nitrile rubber, black & green
   (6) Pin alignment guide: Polyamide 66 (PA66), UL94 HB, black

# **Electrical Requirements**

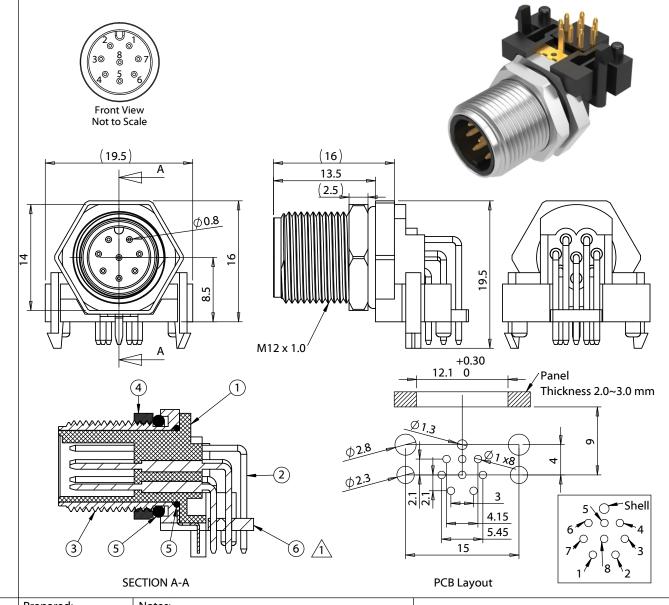
Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance:  $10 \text{ m}\Omega$  or less

# **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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Revision:	Date:	Description:	Prepared:	Notes:					
Α	9/30/2020	Initial release		RoHS compliant			NSII	ITY	
A1	10/13/2021	Added pin alignment guide	Verified:	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			
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.1 mm		10X 1.341.323.4202 Web terisinty.com				
				Description:	Size:	Part number:			
				Connector, 8 pin M12 A-code plug, 12xL25mm, gold	Α	A 54-00251			
				plated, PCB mount, 90°, PCB, IP67	Scale:	2:1		Sheet 1 of 1	