Style

M12 Socket, shielded 8 pin X-coding

Ratings

Voltage: 48 V Current: 0.5 A

# Operating Temperature Range $-40\sim105^{\circ}\text{C}$

#### Materials

- (1) Insulator: Polyamide 66 (PA66) glass fiber, UL94 HB, black
- (2) Pin: phosphor copper, gold plated
  (3) Inner shielding: Zinc aluminum alloy, nickel plated
  (4) Shell: C3604 brass, nickel plated
  (5) O-ring: Silicone rubber

### **Electrical Requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance:  $5 \text{ m}\Omega$  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

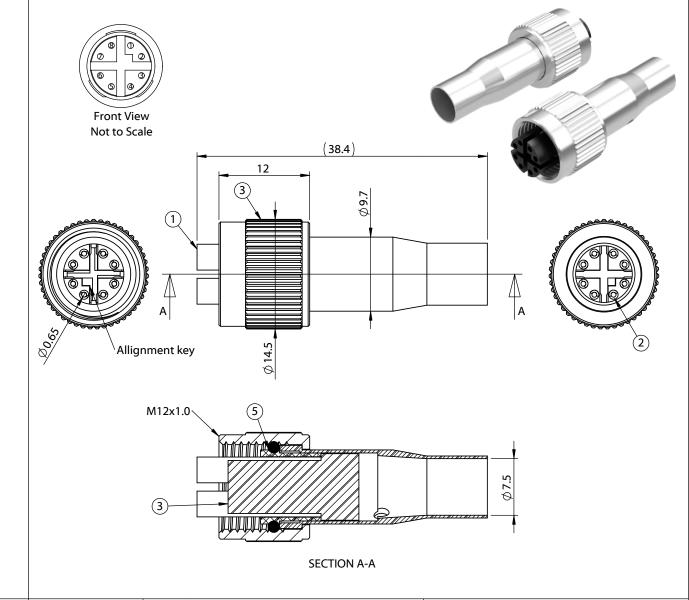
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# **Assembly Info**

Wire gauge: 24 AWG max Wire size: Ø7.5 mm max

#### **Transmission characteristics:**

CAT6a



Revision:	Date:	Description:	Prepared:	Notes:				
Α	5/16/2023	Initial release		RoHS compliant		F	<b>JSII</b>	ITY
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 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: Connector, 8 pin M12 X-code socket, L36.7 mm, gold plated, solder cup, molding style, IP67, shielded	Size: Part number: A 54-00394			
					Scale:	2:1		Sheet 1 of 1