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), UL94 HB, black
- (1) Insulator: Folyamide of (FAOs), October 18, Black
  (2) Pin: phosphor copper, gold plated
  (3) Inner shielding: Zinc aluminum alloy, nickel plated
  (4) Shell: C3604 brass, nickel plated
  (5) O-ring: Nitrile rubber, black & green
  (6) Shield contact: C3604 brass, nickel plated

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

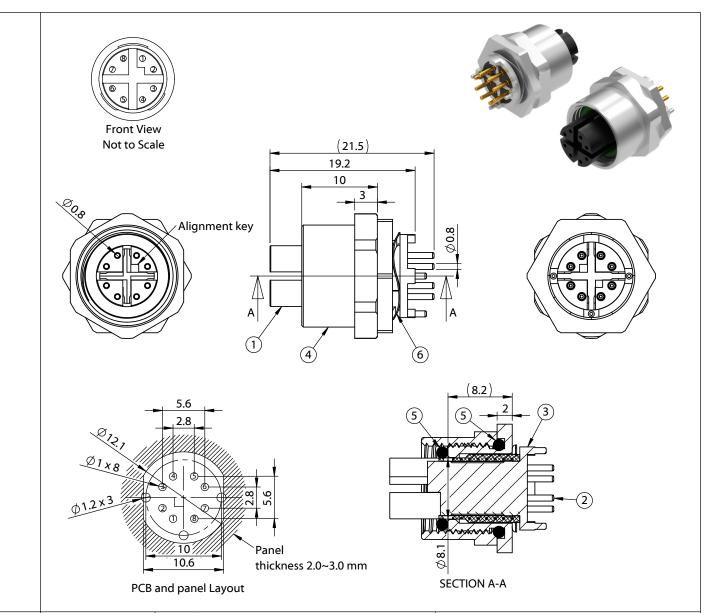
## **Mechanical Requirements**

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 (in mated state). IP67 panel ingress requires sealing cap.

## **Transmission Characteristics:**

CAT6a



Revision:	Date:	Description:	Prepared:	Notes:		
Α	5/9/2023	Initial release		RoHS compliant		FNSII 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: Connector, 8 pin M12 X-code socket, L21.5 mm,	Size:	Part number: 54-00390
			X.X: ± 0.1 mm X.XX: ± 0.05 mm	gold plated, thru hole PCB, panel mount, IP67, shielded	Scale:	2:1 Sheet 1 of 1

5 3