Style M12 Socket 8 pin X-coding

Ratings Voltage: 48 V Current: 0.5 A

Operating Temperature Range

-40~105℃

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 Nut: C3604 brass, nickel plated
 6 O-ring: Nitrile rubber, black & green

Electrical Requirements

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

Mechanical Requirements Life cycle: 500 mating cycles minimum

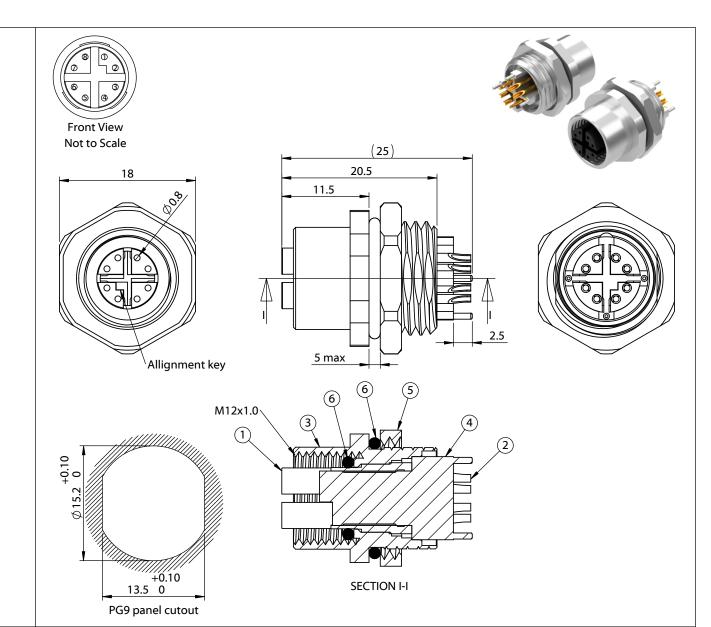
Environmental Requirements
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ. Waterproof: IP67 (in mated state). IP67 panel ingress requires sealing cap.

Assembly Info

Wire gauge: 24 AWG max

Transmission characteristics:

CAT6a



Revision:	Date:	Description:	Prepared:	Notes:					
Α	5/16/2023	Initial release		RoHS compliant		F	JSII	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	tei	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, L25 mm, gold plated, panel mount, solder cup, IP67	Size: Part number: A 54-00396				
					Scale:	2:1		Sheet 1 of 1	

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