Style

M12 Socket, shielded 8 pin X-coding

Ratings Voltage: 50 Vac / 60 Vdc Current: 0.5 A (all contacts) 1 A (single contact)

Operating Temperature Range

-40~105℃

Materials

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

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

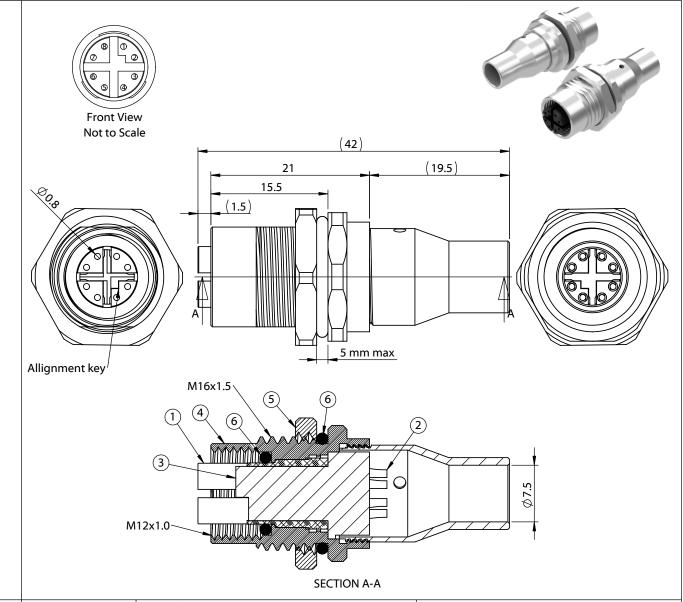
Environmental Requirements
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 m Ω . Waterproof: IP67 (in mated state). IP67 panel ingress requires sealing cap.

Assembly Info

Wire gauge: 24 AWG max Wire size: \emptyset 7.5 mm max

Transmission characteristics:

CAT6a



Revision:	Date:	Description:	Prepared:	Notes:				
Α	5/16/2023	Initial release		RoHS compliant		FN	SIL	ITY
			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			
				Connector, M12 X-code socket, 8 pin, 12xL40.5 mm, panel mount, solder cup, gold plated, IP67	Size: Part number: A 54-00398			
					Scale:	: 2:1	\bigcirc	Sheet 1 of 1

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