Style

M12 Plug, 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°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) Threads: C3604 brass, nickel chrome

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 Ω . Waterproof: IP67

Assembly Info

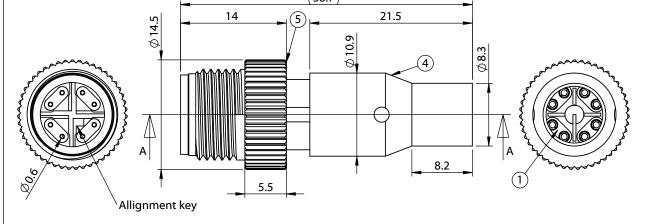
Wire gauge: 24 AWG max Wire size: \emptyset 7.5 mm max

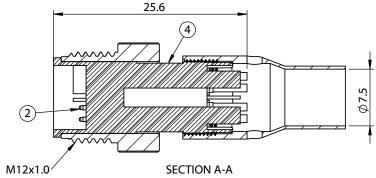
Transmission characteristics:

CAT6a









Scale: 2:1

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Revision:	Date:	Description:	Prepared:	Notes:		
A	5/16/2023	23 Initial release	Varifie d.	RoHS compliant		ENSILITY
			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 Size: Part number: A 54-00395
				Description: Connector, M12 X-code plug, 8 pin, 8xL38.6 mm, molding style, solder cup, gold plated, IP67,		
			$X.X: \pm 0.1 \text{ mm}$		Casla	Shoot 1 of 1

shielded

X.XX: ± 0.05 mm

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