

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°C

Materials

- ① Insulator: Polyamide 66 (PA66), UL94 HB, black
- ② Pin: C3604 brass, gold flashing
- ③ M12 Shell: Zinc Alloy, nickel plated
- ④ Outer Shell: Zinc Alloy, nickel plated
- ⑤ Collet nut: Zinc Alloy, nickel plated
- ⑥ Collet: Polyamide 66 (PA66), UL94 HB
- ⑦ O-ring: Silicone rubber

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 10 mΩ or less

Mechanical Requirements

Life cycle: 500 mating cycles minimum

Environmental Requirements

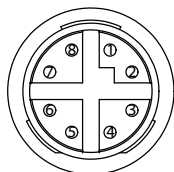
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67

Assembly Info

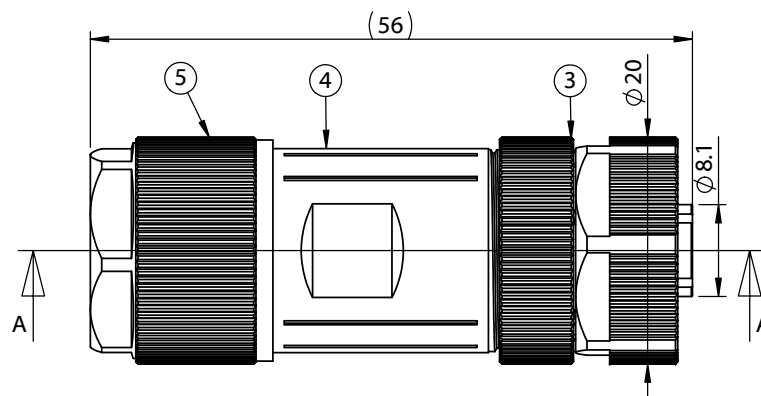
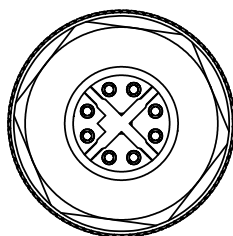
Wire gauge: 24 AWG max
Wire size: Ø6~8 mm

Transmission Characteristics:

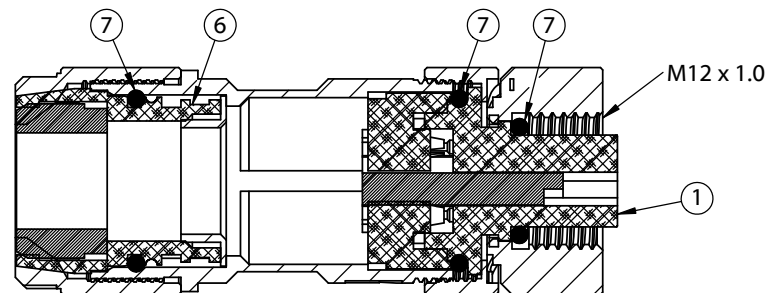
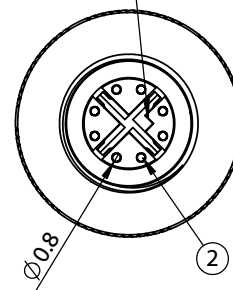
CAT6a




Front View
Not to Scale



Alignment key



SECTION A-A

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	5/9/2023	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, M12 X-code socket 8 pin, L56 mm, crimp, assembly style, gold plated, IP67, shielded	Size: A	Part number: 55-00191	
					Scale: 3:2		Sheet 1 of 1

5

4

3

2

1