

Style
M12 Socket
8 pin
X-coding

Ratings
Voltage: 48 V
Current: 0.5 A

Operating Temperature Range
-40~105°C

Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Pin: phosphor copper, gold plated
③ Inner shielding: Zinc alluminum alloy, nickel plated

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.

Transmission Characteristics:
CAT6a

Front View
Not to Scale

3D View

Side View

Rear View

PCB Layout

Revision:	Date:	Description:	Prepared: PB	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	5/17/2023	Initial release	Verified: AG	RoHS compliant			
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	Size: Part number: A 54-00388		
			Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, 8 pin M12 X-code socket, L21.5 mm, gold plated, thru hole PCB, unshielded			
					Scale: 2:1		Sheet 1 of 1

5

4

3

2

1