

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: Phosphor copper, gold plated
- ③ Inner shielding: zinc aluminum alloy, nickel plated
- ④ Shell: C3604 brass, nickel plated
- ⑤ O-ring: Silicone rubber
- ⑥ Sleeve: C3604 brass, nickel plated

Electrical Requirements

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

Mechanical Requirements

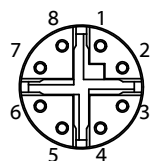
Life cycle: 500 mating cycles minimum

Environmental Requirements

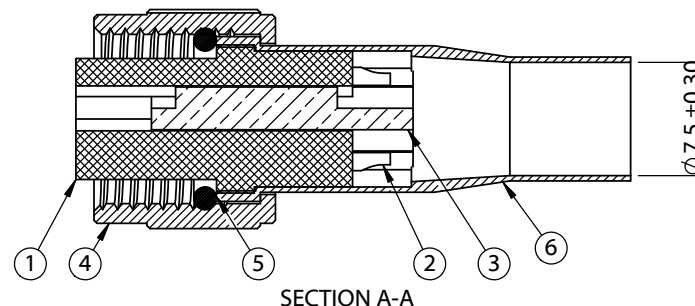
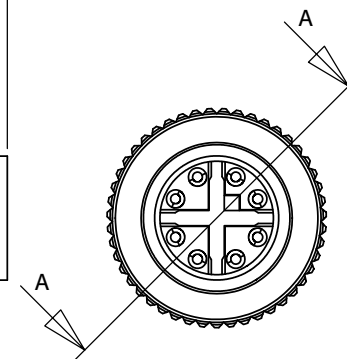
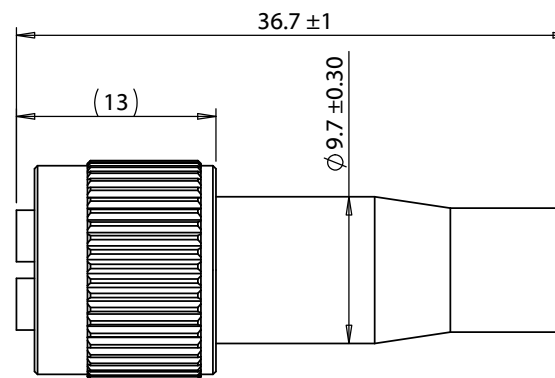
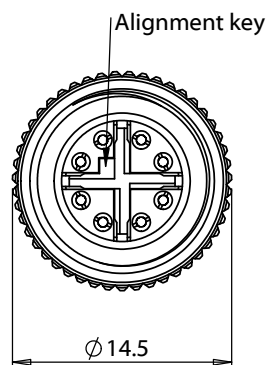
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67

Assembly Info

Wire gauge: 24 AWG max



Front view
Not to Scale



Revision:	Date:	Description:	Prepared: RR Digitally signed by RR Date: 2025.03.05 08:18:34 -08'00'	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	12/1/2020	Initial release	Verified: AL Digitally signed by AL Date: 2025.03.05 08:19:50 -08'00'	RoHS compliant	
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	
			Tolerances:	Description:	
			X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Connector, M12 X-code socket, 8 pin, 12xL36.7 mm, molding style, solder cup, gold plated, IP67, shielded	
				Size: A	Part number: 50-00994
				Scale: 2:1	Sheet 1 of 1