

Style

M12 Plug, shielded
8 pin
X-coding

Ratings

Voltage: 50 Vac / 60 Vdc
Current: 0.5 A/per contact (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 plated
- ③ Inner shielding: zinc aluminum alloy, nickel plated
- ④ Shell: C3604 brass, nickel plated
- ⑤ 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

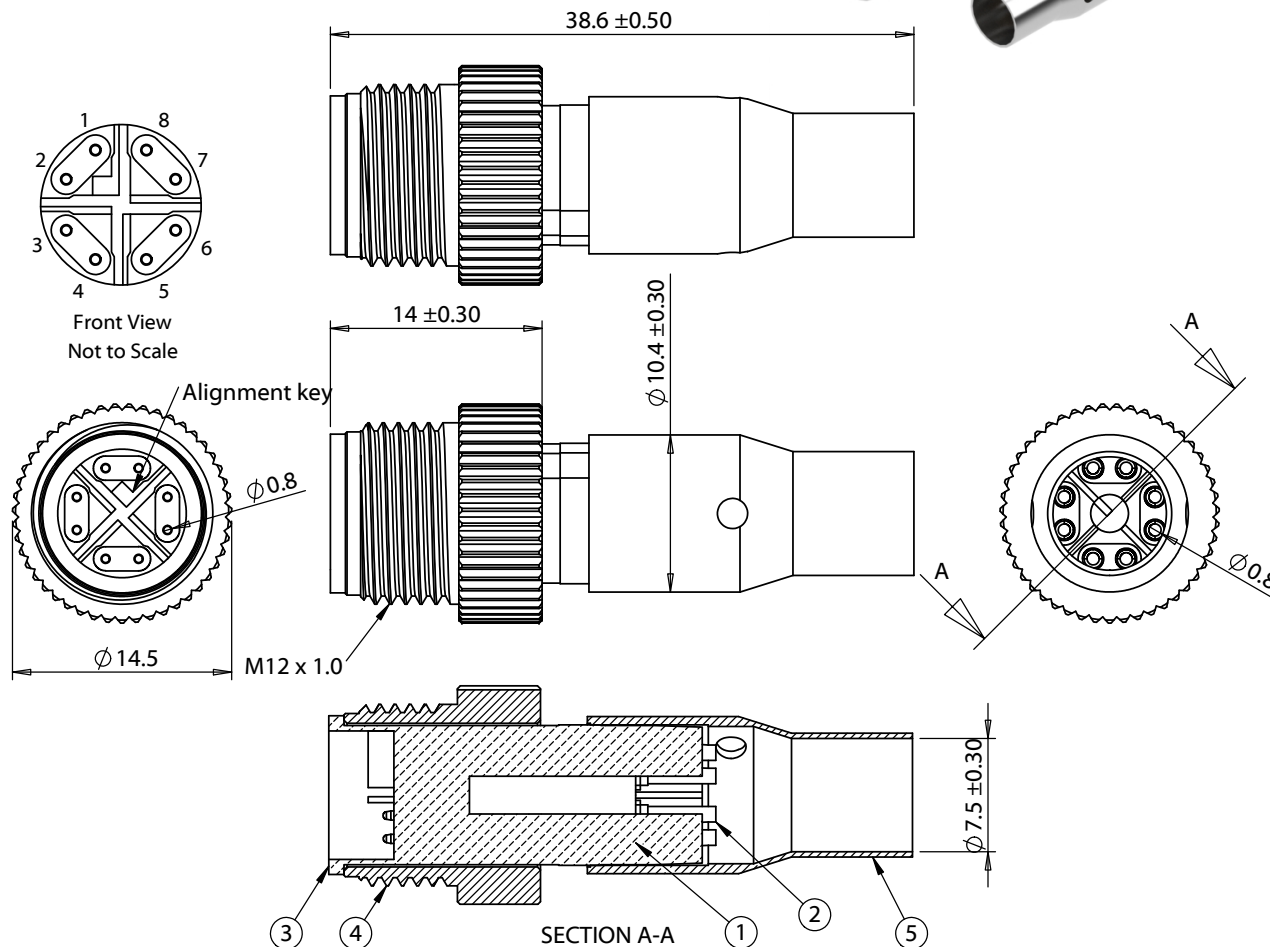
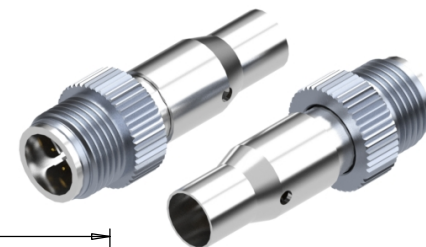
Life cycle: 500 mating cycles minimum

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



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	11/19/2020	Initial release	AG	RoHS compliant			
			Verified: AL	Function test: no open, no short circuit, no intermittent	Size:	Part number:	
			Dimensions are in millimeters.	Description:	A	50-00993	
			Tolerances:	Connector, 8 pin M12 X-code plug, 12xL38.6mm, gold plated, molding style, solder cup, IP67, shielded	Scale:	1:0.2	Sheet 1 of 1
			X: ± 0.3 mm				
			X.X: ± 0.1 mm				
			X.XX: ± 0.05 mm				