Style M12 Plug, shielded 8 pin

A-coding

Ratings

Voltage: 30 V Current: 2 A

Operating Temperature Range

-40 ~ 105 °C

Materials

1 Insulator: Polyamide 66 (PA66), UL94 HB, black (2) Pin: C3604 brass, gold plated (3) Shell: C3604 brass, nickel plated (4) Nut: C3604 brass, nickel plated

- (5) O-ring: Nitrile rubber, black & green
 (6) Pin alignment guide: Polyamide 66 (PA66), UL94 HB, black

Electrical Requirements

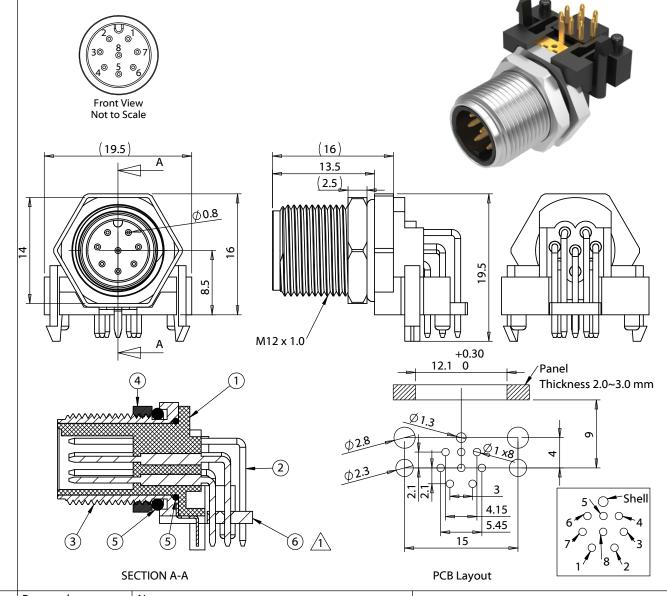
Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: $10 \text{ m}\Omega$ or less

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 (in mated state). IP67 panel ingress requires sealing cap

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Revision:	Date:	Description:	Prepared:	Notes:							
Α	9/30/2020	Initial release	AG Digitally signed by AG Date: 2023.06.20 13:35:32 -07'00'	RoHS compliant			Τľ	NSII.	ITY		
A1	10/13/2021	Added pin alignment guide	Verified: PB Digitally signed by Pt Date: 2023.06.20 16:44:20-07:00'	Function test: no open, no short intermittent	ction test: no open, no short circuit, no mittent			tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm	Description: Connector, 8 pin M12 A-code plug, 12xL25mm, gold plated, PCB mount, 90°, PCB, IP67		Size: Part number: A 54-00251					
			X.X: ± 0.3 mm X.XX: ± 0.1 mm			Scale:	: 2:1		Sheet 1 of 1		