Style

M12 Socket, shielded 3 pin A-coding

Ratings Voltage: 250 V Current: 4 A

Operating Temperature Range

-40~105 °C

Materials

- 1 Insulator: Polyamide 66 (PA66), UL94 HB, black
 2 Pin: C5191 phosphor bronze, gold plated
 3 Shell: C3604 brass, nickel plated
 4 Nut: C3604 brass, nickel plated

- (5) O-ring: Nitrile rubber, green/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

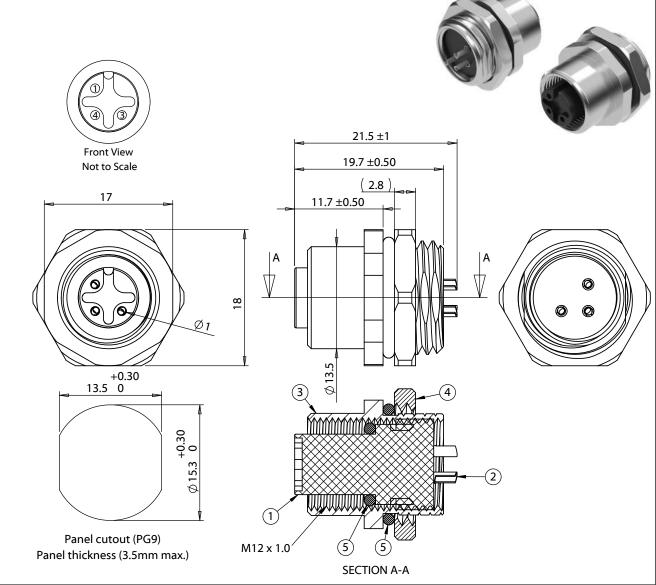
Life cycle: 500 mating cycles minimum

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

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Assembly Info

Wire gauge: 22 AWG max



Revision:	Date:	Description:	Prepared:	Notes:				
Α	10/1/2020	Initial release	Digitally signed by JC Date: 2020.10.23 12:43:24 -07'00'	RoHS compliant		\top	NSIL	ITY
			Verified: AG Digitally signed by AG Date: 2020.10.23 13.04.29 Dimensions are in	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			millimeters. Tolerances: X: ± 0.3 mm	Description: Connector, 3 pin M12 A-code socket, 12xL21.5mm,	Size: Part number: 54-00180			
			X.X: ± 0.1 mm X.XX: ± 0.05 mm	gold plated, panel mount, solder cup, IP67	Scale:	2:1		Sheet 1 of 1