

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

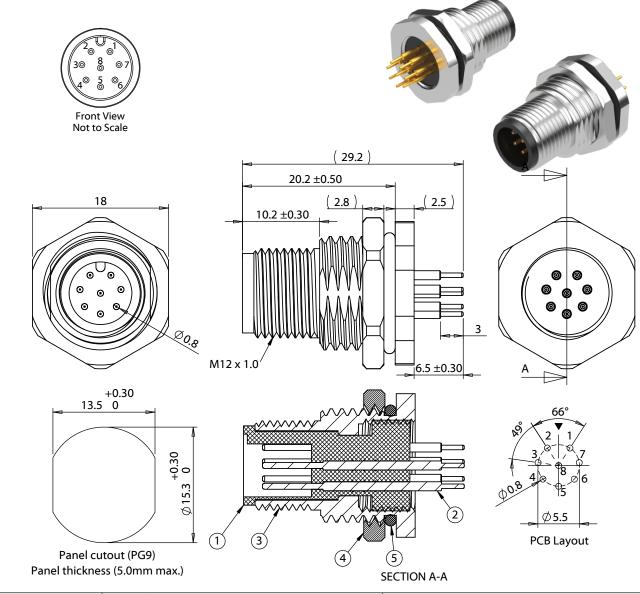
Electrical Requirements
Dielectric strength: 1 min @ 500 Vac Insulation resistance:  $100 \, M\Omega \, @ \, 500 \, Vdc$ Contact resistance:  $10 \, m\Omega$  or less

## **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 $\Omega$ . Waterproof: IP67

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| Revision: | Date:     | Description:    | Prepared:                      | Notes:   |   |     |             |              |
|-----------|-----------|-----------------|--------------------------------|--|---|-----|-------------|--------------|
| Α         | 10/6/2020 | Initial release |                                | RoHS compliant   |   | F   | <b>NSII</b> | ITY          |
|           |           |                 | Dimensions are in millimeters. | Function test: no open, no short circuit, no intermittent                                      | tel 1.541.323.3228 800 877.670.7118<br>fax 1.541.323.4202 web tensility.com |     |             |              |
|           |           |                 |                                | Description: Connector, 8 pin M12 A-code plug, 12xL29.2mm, gold plated, panel mount, PCB, IP67 | Size: Part number: A 54-00219   |     |             |              |
|           |           |                 |                                |  | Scale:  | 2:1 |             | Sheet 1 of 1 |