

**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: Silicone rubber

**Electrical Requirements**

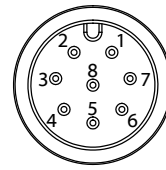
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 10 mΩ or less

**Mechanical Requirements**

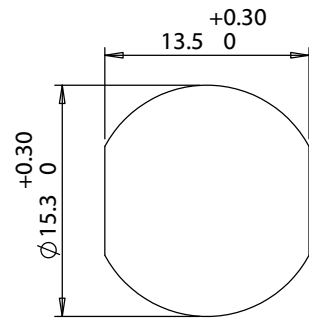
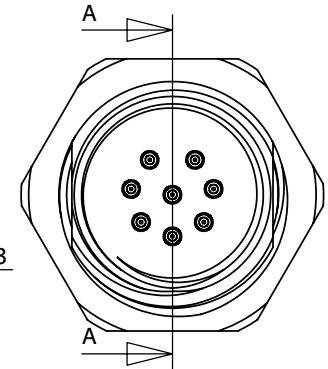
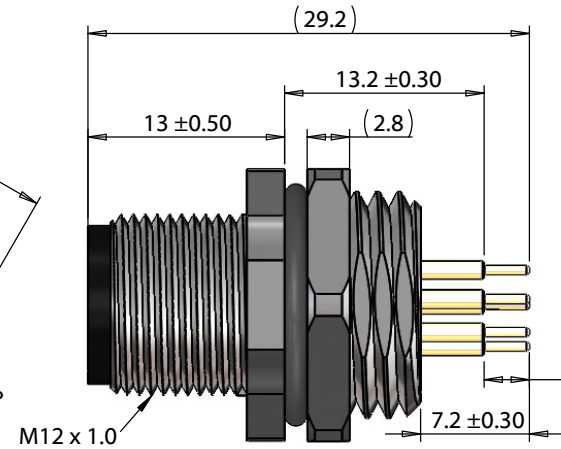
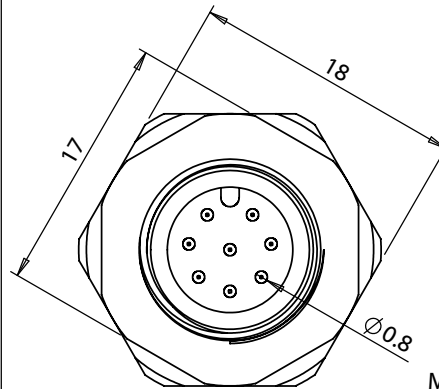
Life cycle: 500 mating cycles minimum

**Environmental Requirements**

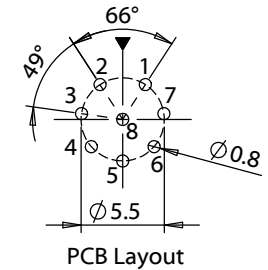
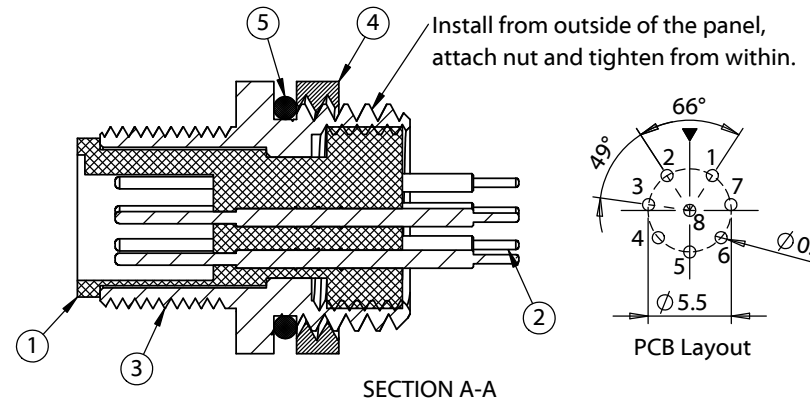
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.  
Waterproof: IP67



Front View  
Not to Scale



Panel cutout (PG9)  
Panel thickness (4.5mm max.)



|           |           |                 |                                                                                                  |                                                                                           |                                                                                                                                                 |              |
|-----------|-----------|-----------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Revision: | Date:     | Description:    | Prepared:                                                                                        | Notes:                                                                                    | <div style="text-align: center;"> <h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118<br/>fax 1.541.323.4202 web tensility.com</p> </div> |              |
| A         | 10/6/2020 | Initial release | Verified:                                                                                        | RoHS compliant<br>Function test: no open, no short circuit, no intermittent               |                                                                                                                                                 |              |
|           |           |                 | Dimensions are in millimeters.<br>Tolerances:<br>X: ± 0.3 mm<br>X.X: ± 0.1 mm<br>X.XX: ± 0.05 mm | Description:                                                                              | Size:                                                                                                                                           | Part number: |
|           |           |                 |                                                                                                  | Connector, M12 A-code plug, 8 pin, 12xL29.2 mm, panel mount, thru hole, gold plated, IP67 | A                                                                                                                                               | 54-00212     |
|           |           |                 |                                                                                                  |                                                                                           | Scale: 2:1                                                                                                                                      | Sheet 1 of 1 |