

**Style**  
M12 Socket, shielded  
4 pin  
D-coding

**Ratings**  
Voltage: 250 V  
Current: 4 A

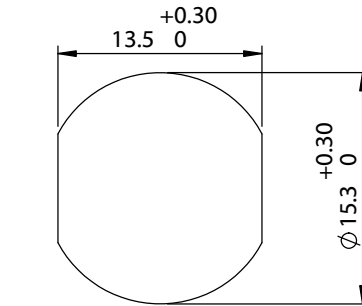
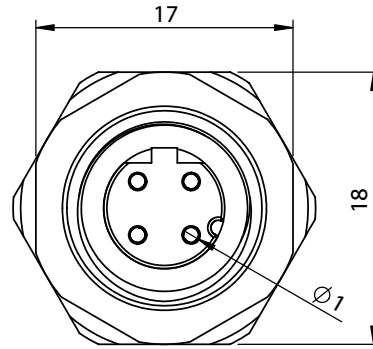
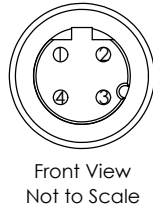
**Operating Temperature Range**  
-40~105 °C

**Materials**  
① Insulator: Polyamide 66 (PA66), UL94 HB, black  
② Pin: C5191 phosphor bronze, gold flashing  
③ Shell: C3604 brass, nickel plated  
④ Nut: C3604 brass, nickel plated  
⑤ O-ring: Nitrile rubber, green/black

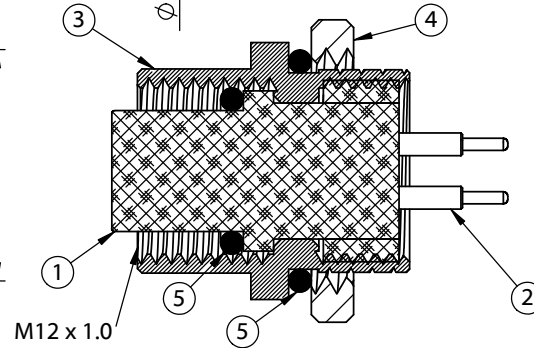
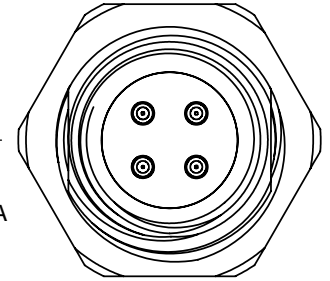
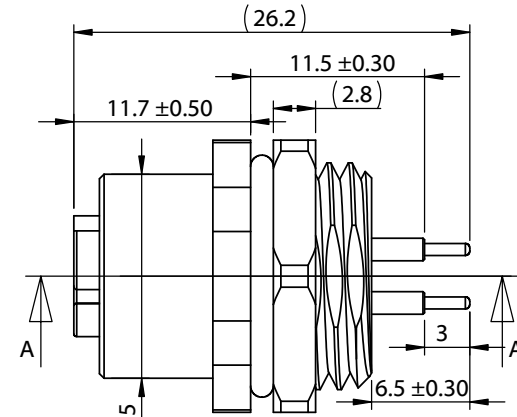
**Electrical Requirements**  
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 10 mΩ or less

**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

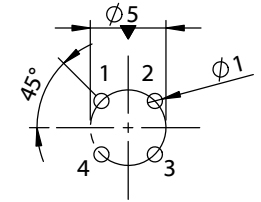


Panel cutout (PG9)  
Panel thickness (3.5mm max.)



M12 x 1.0

SECTION A-A



PCB Layout

|           |          |                 |                                                                                                  |                                                                                                     |                                                                                                 |                          |              |
|-----------|----------|-----------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------|--------------|
| Revision: | Date:    | Description:    | Prepared:                                                                                        | Notes:                                                                                              | <b>TENSILITY</b><br>tel 1.541.323.3228 800 877.670.7118<br>fax 1.541.323.4202 web tensility.com |                          |              |
| A         | 2/7/2023 | 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:<br>Connector, 4 pin M12 D-code socket, 12xL26.2mm, gold plated, panel mount, PCB, IP67 | Size:<br>A                                                                                      | Part number:<br>54-00371 | Sheet 1 of 1 |
|           |          |                 |                                                                                                  |                                                                                                     | Scale: 2:1                                                                                      |                          |              |