

**Style**  
M8 Plug  
6 pin  
A-coding

**Ratings**  
Voltage: 30 V  
Current: 1 A

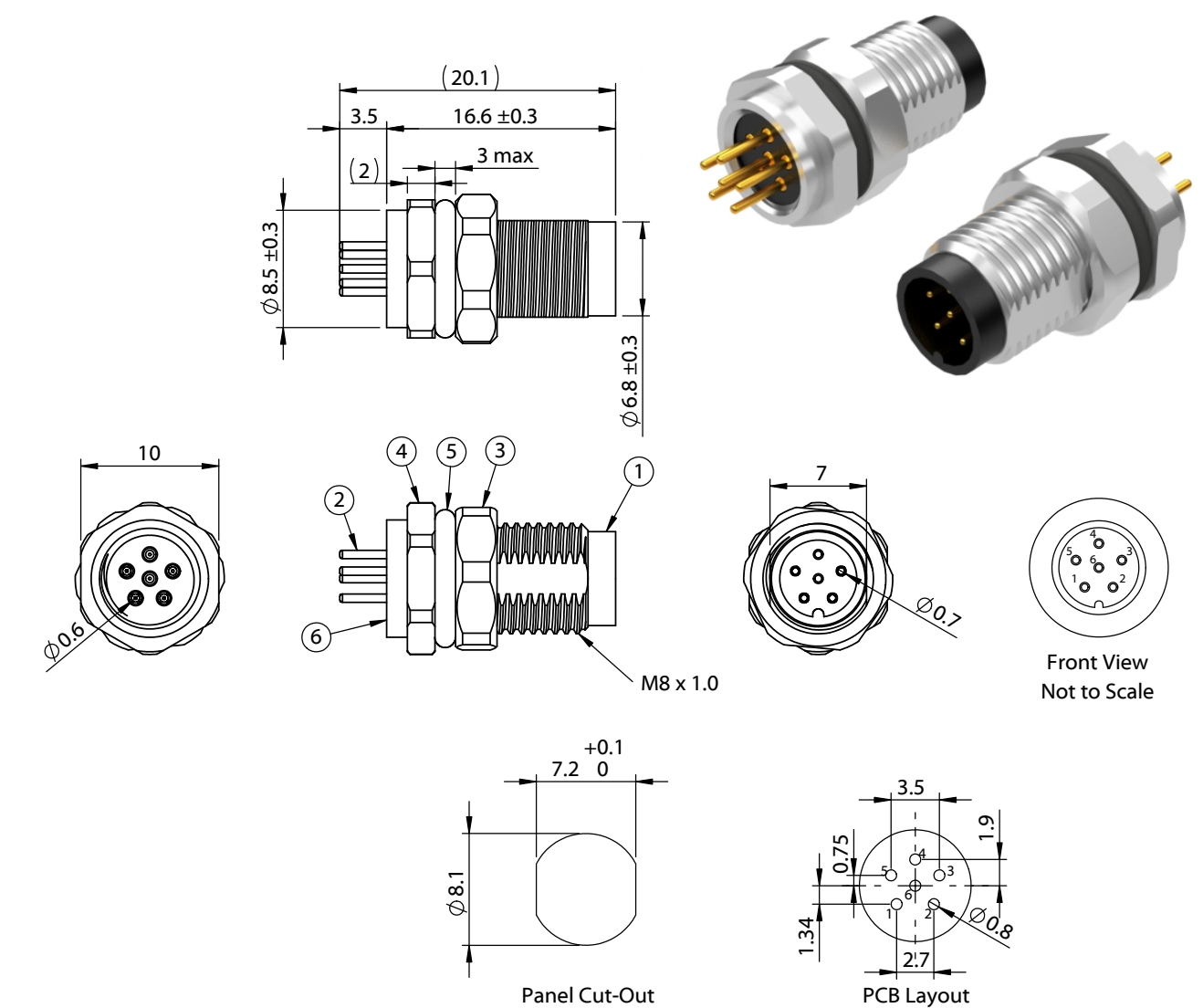
**Operating Temperature Range**  
-40~105 °C

**Materials**  
① Insulator: PA66, UL 94 HB, black  
② Pin: C3604 brass, gold flashing  
③ Nut: C3604 brass, nickel plated  
④ Shell: C3604 brass, nickel plated  
⑤ O-ring: Silicone rubber  
⑥ Epoxy: Epoxy resin

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

**Mechanical Requirements**  
Life cycle: 1000 mating cycles minimum

**Environmental Requirements**  
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.  
Waterproof: IP67



|           |           |                 |                                |                                                                                         |                                                                                                                     |              |              |
|-----------|-----------|-----------------|--------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Revision: | Date:     | Description:    | Prepared:                      | Notes:                                                                                  | <div>TENSILITY</div> <div>tel 1.541.323.3228 800 877.670.7118</div> <div>fax 1.541.323.4202 web tensility.com</div> |              |              |
| A         | 1/13/2023 | Initial Release | Verified:                      | RoHS compliant                                                                          |                                                                                                                     |              |              |
|           |           |                 | Dimensions are in millimeters. | Function test: no open, no short circuit, no intermittent                               |                                                                                                                     |              |              |
|           |           |                 | Tolerances:                    | Description:                                                                            |                                                                                                                     |              |              |
|           |           |                 | X: ± 0.3 mm                    | Connector, M8 A-code plug, 6 pin, 8xL20.1 mm, panel mount, thru hole, gold plated, IP67 | Size:                                                                                                               | Part number: |              |
|           |           |                 | X.X: ± 0.1 mm                  |                                                                                         | A                                                                                                                   | 54-00322     |              |
|           |           |                 | X.XX: ± 0.05 mm                |                                                                                         | Scale: 2:1                                                                                                          |              | Sheet 1 of 1 |