Style
M12 Socket, shielded
4 pin
B-coding

Ratings
Voltage: 250 V
Current: 4 V

Operating Temperature Range
-40~105 °C

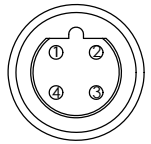
Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Socket: C5191 Phosphor bronze, gold plated
③ Shell: C3604 brass, nickel plated
④ O-ring: Nitrile rubber, green

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

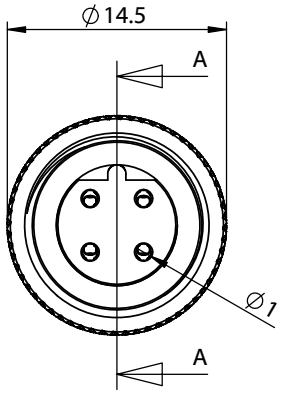
Mechanical Requirements
Life cycle: 500 mating cycles minimum

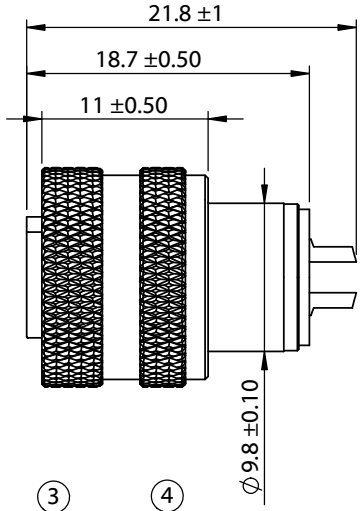
Environmental Requirements
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67

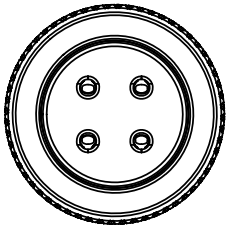
Assembly Info
Wire gauge: 22 AWG max

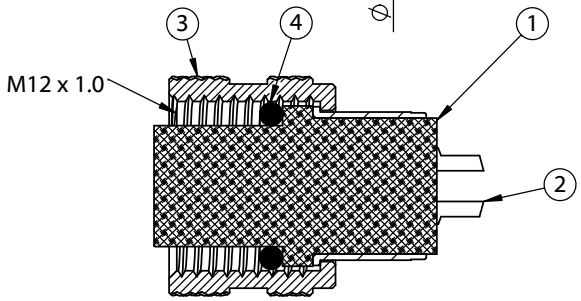


Front View
Not to Scale









SECTION A-A

Revision:	Date:	Description:
A	1/31/2023	Initial release

Prepared: JD Digitally signed by JD Date: 2023.04.05 09:23:43 -07'00'

Verified: PB Digitally signed by PB Date: 2023.04.05 09:26:53 -07'00'

Dimensions are in millimeters.
Tolerances:
X: ± 0.3 mm
X.X: ± 0.1 mm
X.XX: ± 0.05 mm

Notes:
RoHS compliant
Function test: no open, no short circuit, no intermittent

Description:
Connector, 4 pin M12 B-code socket, 12xL21.8mm, gold plated, molding style, solder cup, IP67, shielded

TENSILITY
tel 1.541.323.3228 800 877.670.7118
fax 1.541.323.4202 web tensility.com

Size: A
Part number: 50-01016
Scale: 2:1
Sheet 1 of 1

To see a custom version of this cable assembly, call Tensility at 541-323-3228 or email engineering@tensility.com

5 4 3 2 1