Ratings
Voltage: 60 V
Current: 1 A
Waterproof: IP 67

Operating Temperature Range
-40 ~ 85 °C

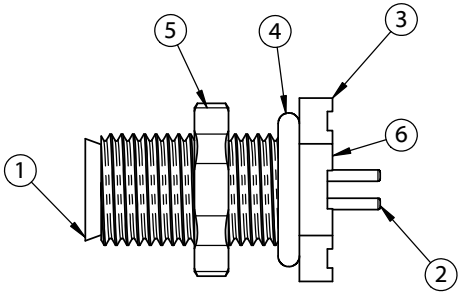
Materials
① Insulator: Nylon 66 + 30% glass fiber, black
② Pin: brass, gold-flashing
③ Shell: brass, nickel plated
④ O-ring: Silicone rubber
⑤ Hexagonal nut: brass, nickel plated
⑥ Epoxy: Epoxy resin

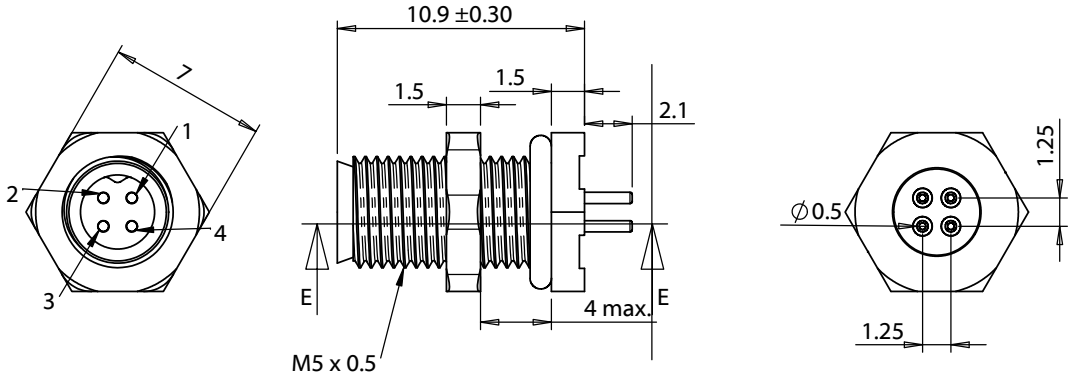
Electrical Requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 10^8 Ω min
Contact resistance: 10 mΩ or less

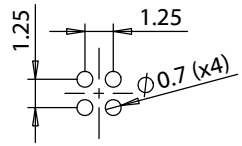
Mechanical Requirements
Insertion force: 0.82 kgf max
Withdrawal force: 0.62 kgf max
Life cycle: 500 mating cycles

Environmental Requirements
Cold test: -25 °C for 2 hours without deformation
Heat test: 85 °C for 16 hours while maintaining minimum 10^8 Ω insulation resistance

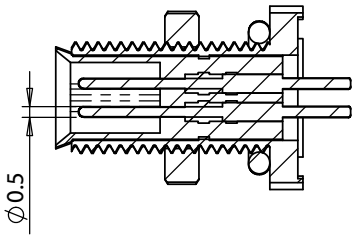
Assembly info
Wire guage: 26 AWG max (Ø0.55 mm)
Panel cutout: Ø5.1 mm recommended







PCB Layout



SECTION A-A

Revision:	Date:	Description:
A	8/7/2018	Initial release
A1	12/6/2018	Added PCB layout

Prepared: AV
Digitally signed by AV
Date: 2024.10.08 08:57:16 -07'00'

Verified: AL
Digitally signed by AL
Date: 2024.12.12 15:04:15 -08'00'

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, M5 A-code plug, 4 pin, 5xL13 mm, panel mount, thru hole, gold plated, IP67

TENSILITY
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Size: A
Part number: 54-00097
Scale: 3:1
Sheet 1 of 1

5 4 3 2 1