Style
M12 socket, flush panel mount
6 pin, A-coding

Ratings
Voltage: 30 V
Current: 2 A
Ingress protection: IP67

Operating Temperature Range
-40 ~ 105 °C, relative humidity of 85% or less

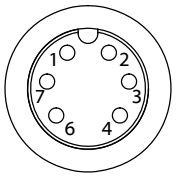
Materials
1. Insulator: Nylon, PA66 + 33% GF, black
2. Shell: C3771 brass, nickel plated
3. Pin: C3771 brass, gold plated
4. Nut: C3771 brass, nickel plated
5. O-ring: Silicone rubber
6. Epoxy: Epoxy resin

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

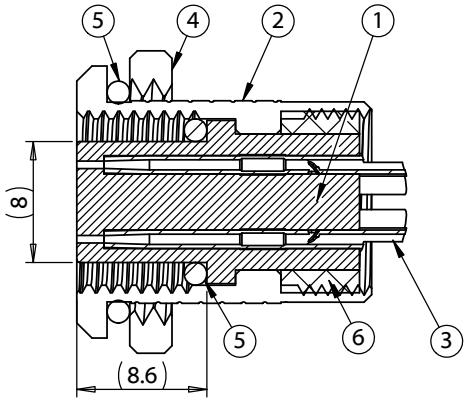
Mechanical Requirements
Life cycle: 500 mating cycles

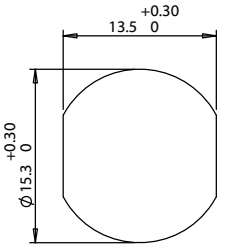
Environmental Requirements
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hours

Compatibility
Maximum wire gauge: 24 AWG

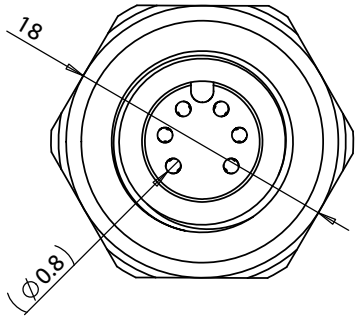


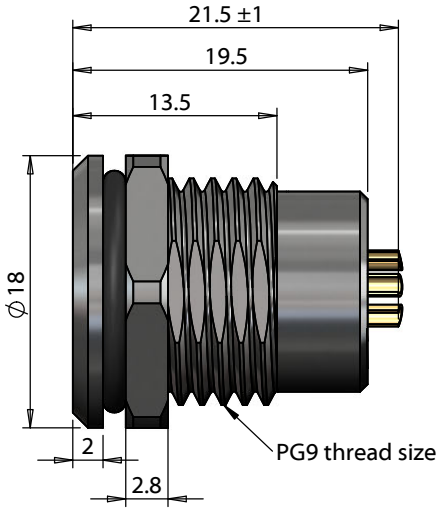
Front View
Not to Scale

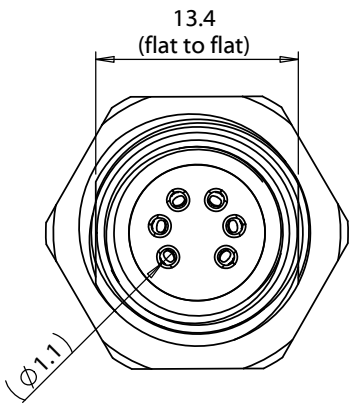




Panel cutout (PG9)
Panel thickness (7 mm max.)
Torque: 0.18 Nm







Back of Connector

Revision:	Date:	Description:
A	03/27/2026	Initial release

Prepared: CR
Digitally signed by CR
Date: 2026.04.20 09:15:18 -07'00'

Verified: KM
Digitally signed by KM
Date: 2026.04.20 12:49:36 -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, M12 A-code socket, 6 pin, 12xL21.5 mm, panel mount, solder cup, gold plated, IP67

TENSILITY
tel 1.541.323.3228 800 877.670.7118
fax 1.541.323.4202 web tensility.com

Size: A
Part number: 54-00552
Scale: 2:1
Sheet 1 of 1

5 4 3 2 1