

Style

M12 socket, flush panel mount
8 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, nickel plated, contact area 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

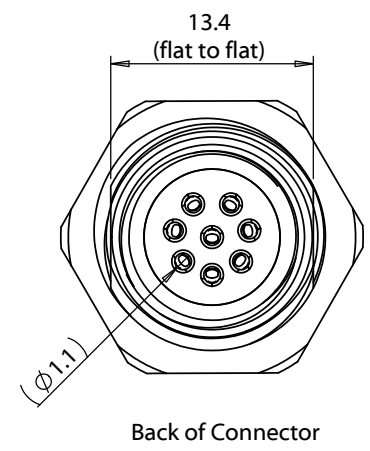
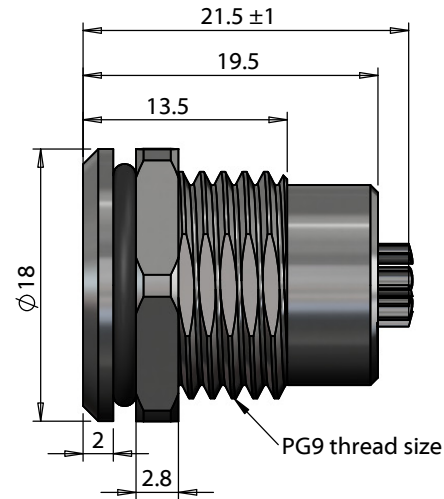
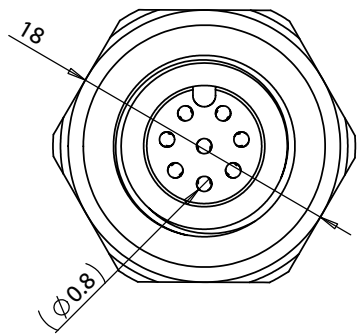
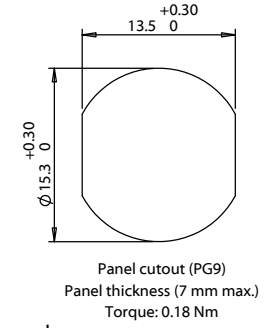
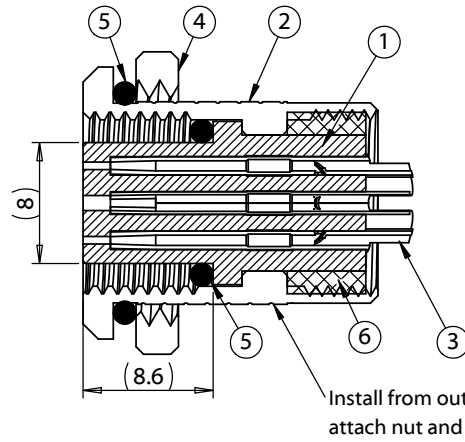
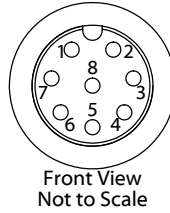
Life cycle: 500 mating cycles

Environmental Requirements

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

Compatibility

Maximum wire gauge: 24 AWG



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	03/27/2026	Initial release	CR	RoHS compliant			
			Verified:	Function test: no open, no short circuit, no intermittent	Size:	Part number:	
			KW		A	54-00553	
			Dimensions are in millimeters.	Description:	Scale:	2:1	Sheet 1 of 1
			Tolerances:	Connector, M12 A-code socket, 8 pin, 12xL21.5 mm, panel mount, solder cup, gold plated, IP67			
			X: ± 0.3 mm				
			X.X: ± 0.1 mm				
			X.XX: ± 0.05 mm				

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