

Style
M12 Socket, shielded
8 pin
A-coding

Ratings
Voltage: 30 V
Current: 2 A

Operating Temperature Range
-40~105°C

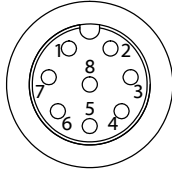
Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Pin: C5191 phosphor bronze, gold plated
③ Shell: C3604 brass, nickel plated
④ Nut: C3604 brass, nickel plated
⑤ O-ring: Silicone rubber
⑥ Epoxy: Epoxy resin

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

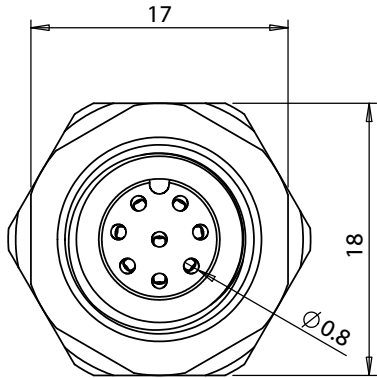
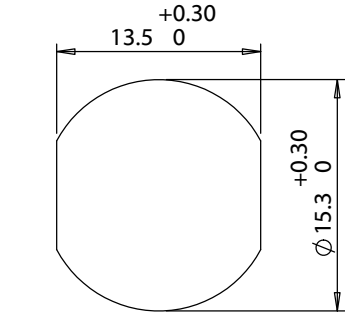
Mechanical Requirements
Life cycle: 500 mating cycles minimum

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

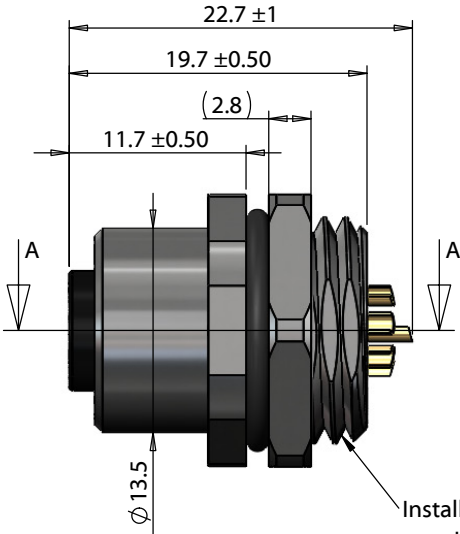
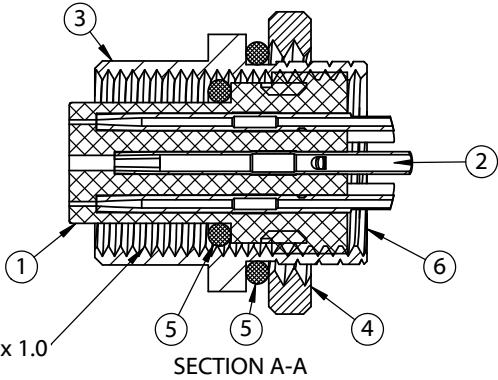
Assembly Info
Wire gauge: 24 AWG max



Front View
Not to Scale



Panel cutout (PG9)
Panel thickness (3.5mm max.)



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com	
A	10/1/2020	Initial release	CR	RoHS compliant		
			Verified:	Function test: no open, no short circuit, no intermittent	Size:	Part number:
			KW		A	54-00184
			Dimensions are in millimeters.	Description:	Scale: 2:1	Sheet 1 of 1
			Tolerances:	Connector, M12 A-code socket, 8 pin, 12xL22.7 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