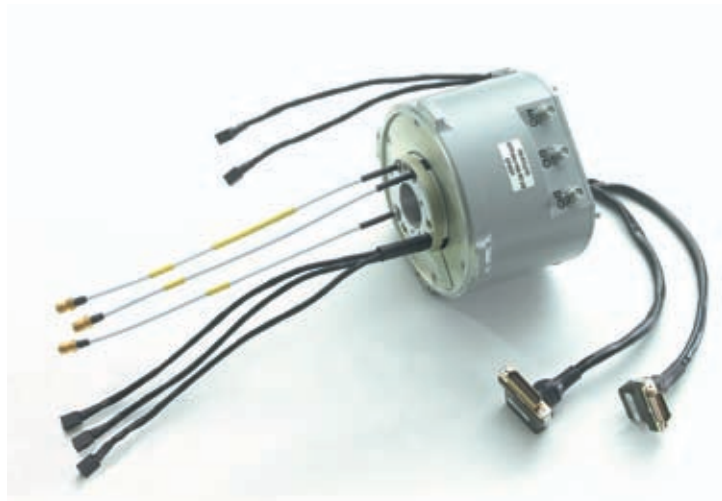

CUSTOM MICRO-D SOLUTIONS

CUSTOM DESIGN CONNECTORS

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CUSTOM DESIGN CONNECTORS

In addition to the standard range of Micro-D connectors and assemblies, AXON' can develop custom designed solutions, all based on Micro-D twist-pin contact technology. AXON' is the sole manufacturer in Europe to have fully integrated in-house the design and the manufacture of the Micro-D system, including :

- Twist pins, shells, inserts and interfacial seals.
- Custom designed conductors, wires and cables.
- Complex assembly processes including optimised EMC shielding, branch braiding and overmoulding.

This high level of vertical integration enables AXON' to offer complete solutions which meet the demanding requirements of the aeronautics, space, military, industrial and off-shore markets.

▶ Common applications

▶ MIL-AERO

- Missiles and counter measures.
- Electro-optics.
- Navigation systems.
- Avionics equipment.
- Radar systems.
- Twist capsules.
- Shoulder launched weapon systems.
- Advanced soldier technology systems.
- Military GPS systems.

▶ NON MILITARY

- Down-hole drilling tools.
- Automotive test equipment.
- Medical devices.
- Ruggedised computers.
- Research centres.

▶ SPACE

- Satellite electronics.
- Space station and planetary explorer applications.

MATERIALS & FINISHES

AXON' can offer micro-D solutions with standard and special shell materials and finishes. The table below illustrates some of the more common options, however other materials and finishes may be possible on request :



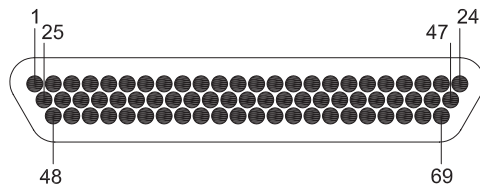
▲ SALT SPRAY TEST EQUIPMENT

MATERIAL	IN ACCORDANCE WITH	DENSITY (g/cm ³)	FINISH	SALT SPRAY RESISTANCE (IN ACCORDANCE WITH EIA-364-26)	TEMPERATURE RANGE	MISCELLANEOUS
ALUMINIUM 6061	SAE AMS-QQ-A-250/11	2.7	<u>STANDARD MIL-DTL-83513 FINISHES</u>			
			- CADMIUM WITH YELLOW CHROMATE OVER ELECTROLESS NICKEL	96 HOURS	150°C	MILITARY APPLICATIONS
			- ELECTROLESS NICKEL	48 HOURS	200°C	MOST COMMON PLATING
			<u>SPECIAL FINISHES</u>			
			- CADMIUM WITH YELLOW CHROMATE OVER ELECTROLESS NICKEL	500 HOURS	150°C	MILITARY APPLICATIONS
			- HEAVY ELECTROLESS NICKEL	500 HOURS	200°C	MILITARY & SPACE APPLICATIONS
			- BLACK ANODISATION (IN ACCORDANCE WITH MIL-A-8625 TYPE II CLASS 2)	48 HOURS	150°C	NON-REFLECTIVE / POOR CONDUCTIVITY
- CHEMICAL FILM IN ACCORDANCE WITH MIL-C-5541 CLASS 3	48 HOURS	150°C	NON MAGNETIC APPLICATIONS			
- GOLD PLATING IN ACCORDANCE WITH ASTM-B-488 OVER ELECTROLESS NICKEL	48 HOURS	150°C	SPACE GRADE APPLICATIONS			
STAINLESS STEEL SERIES 300	-	7.8	PASSIVATION IN ACCORDANCE WITH SAE AMS-27000	1000 HOURS	200°C	EXCELLENT CORROSION RESISTANCE
TITANIUM	-	4.5	NONE	500 HOURS	200°C	ALL ROUND PERFORMANCE WEIGHT, CORROSION, EMC
KOVAR (Fe/Ni/Co ALLOY)	-	8.4	ELECTROLYTIC NICKEL	48 HOURS	200°C	HERMETIC APPLICATIONS

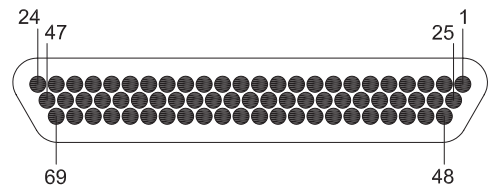
69 AND 74 WAY MICRO-D CONNECTORS

AXON' offers specific contact arrangements for custom applications. Specific designs are not covered by the MIL-DTL-83513 specification but AXON's connectors remain fully compatible with the MIL-DTL-83513 standard as far as performance and construction are concerned.

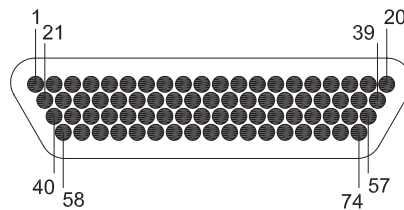
► Contact arrangements



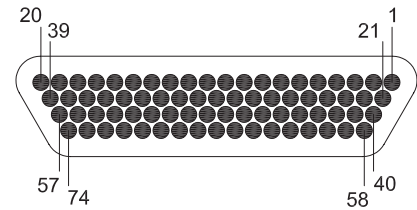
MATING FACE OF 69 WAY MALE CONNECTOR



MATING FACE OF 69 WAY FEMALE CONNECTOR



MATING FACE OF 74 WAY MALE CONNECTOR



MATING FACE OF 74 WAY FEMALE CONNECTOR

1.27 mm (.050") contact spacing.
1.09 mm (.043") spacing between rows.

► Electrical & mechanical characteristics

As per MIL-DTL-83513

SEE PAGE 15 FOR MORE INFORMATION

► Materials

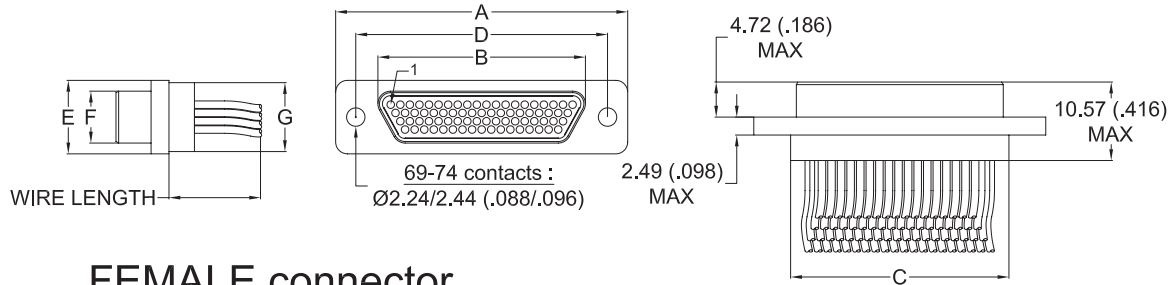
As per MIL-DTL-83513

SEE PAGE 15 FOR MORE INFORMATION

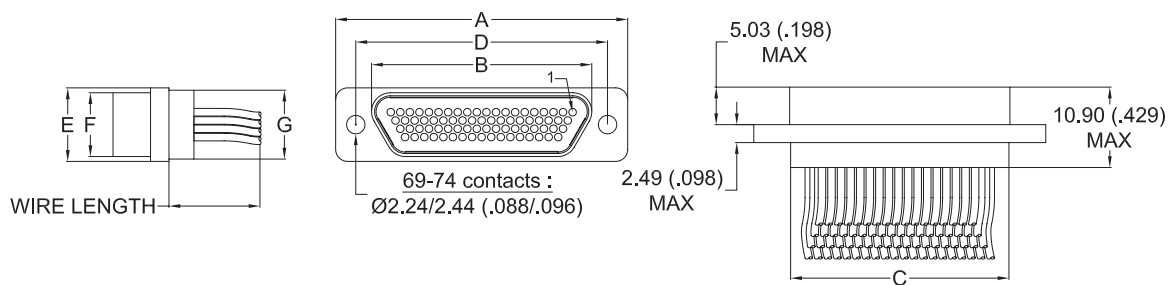
► Dimensions

Dimensions are in millimetres (inches).

MALE connector



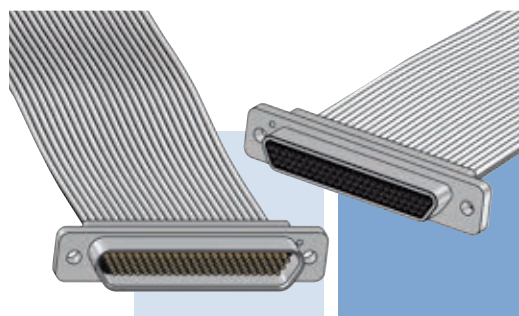
FEMALE connector



	A ± 0.25 (±.010)	B max		C -0.46/+0.25 (-.018/+0.010)	D ± 0.13 (±.005)	E ± 0.25 (±.010)	F max		G max
		Male	female				Male	female	
69P/69S	43.82 1.725	32.61 1.284	34.29 1.350	34.04 1.340	38.48 1.515	8.66 .431	5.79 .228	7.44 .293	7.87 .310
74P/74S	38.74 1.525	27.53 1.084	29.22 1.150	28.96 1.140	33.40 1.315	9.75 .384	6.88 .271	8.46 .333	9.14 .360

► Available versions metal shell only

- Male pigtail
- Female pigtail
- Saver
- PCB connectors (available on request)



▲ 69 WAY MICRO-D PIGTAIL CONNECTORS



▲ 74 WAY MICRO-D PIGTAIL CONNECTORS