

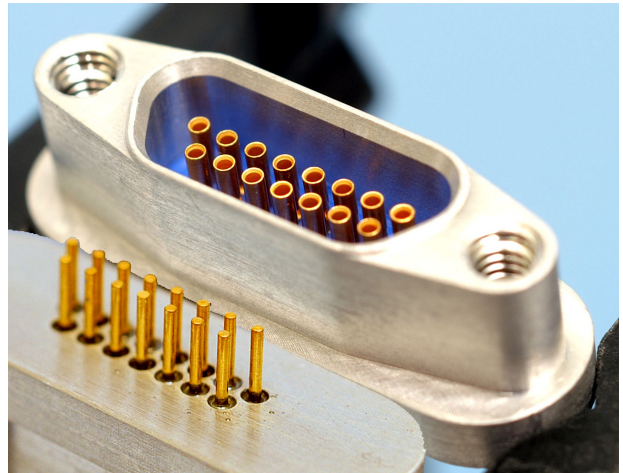
# Aluminum Micro-D Connectors

## Overview

These Micro-D connectors meet the same interface requirements as our other robust mil-spec compliant connectors. The controlled CTE characteristics, chemical bonding properties and polycrystalline structure of Kryoflex®, allow the Hermetic Solutions Group to use gold plated beryllium copper contacts for excellent electrical performance and environmental characteristics.

## Technical Advantages

The Hermetic Solutions Group's technology is proven in the harshest environments – from deep beneath the earth's surface to deep space and even within the human body. Our all aluminum Micro-D connectors provide a unique solution for application that require a combination of light weight, and high electrical performance.



## Applications

- Defense Aircraft
- Airborne Weapons Systems
- Launch Vehicles
- Satellites

## Materials

- Material Compatibility: Designed for Aluminum Applications
- Shell Finish Options: Chromate Conversion Coated per MIL-C-5541
- Contact Material: Beryllium Copper CDA Alloy 172/173
- Contact Finish: Nickel/Gold Plating

## Electrical

- Current Rating: Subject to Pin Configuration
- Insulation Resistance: Provides Greater Than 5,000 Megohms at 500 VDC When Tested in IAW MIL-STD-1344, Method 3003
- Dielectric Withstanding Voltage: Exhibits No Evidence of Breakdown or Flash-over When Tested in IAW MIL-STD-1344, Method 3003

## Environmental

- Operating Temperature: -55°C to 125°C
- Salt Spray Resistance: Connectors Meet Salt Spray Test in IAW MIL-STD-1344, Method 3003
- Sealing: Kryoflex Polycrystalline Ceramic

## Mechanical

- Interface: Per MIL-PRF-83513
- Number of Contacts: 9, 15, 21, 25, 31 and 37
- Leak Rate: Less Than  $1 \times 10^{-9}$  cc/sec Helium at 1 Atmospheric Differential Pressure

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