



MIL-DTL-83513 Type Micro-D Hermetic Connectors General Information

MATERIALS AND FINISHES

Connector Shell	Kovar® Alloy in Accordance With SAE AMS-I-23011 Class 1, Plated with Electrodeposited Nickel In Accordance With SAE-AMS-QQ-N-290 Class 2, 0.0002-0.0003 Inches Thick*.
Insulator	Borosilicate Glass
Interfacial Seal	Flourosilicone Rubber, Blue
Socket Contact	Kovar® Alloy in Accordance With SAE AMS-I-23011 Class 1, Gold Plated In Accordance With ASTM B 488 Type II, Class 1.27 (50 microinches minimum) over Nickel Underplate in Accordance With SAE-AMS-QQ-N-290 Class 2.
O-Ring	Flourosilicone Rubber, Blue
Encapsulant	Epoxy

* Additional shell materials available including titanium. Please consult factory for ordering information

PERFORMANCE SPECIFICATIONS

Current Rating	1.5 AMP
Dielectric Withstanding Voltage	150 VAC
Working Voltage	100 VDC
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	30 Milliohms Maximum
Hermeticity	1 x 10 ⁻⁶ Maximum Helium Leak Rate per Second at One Atmosphere
Operating Temperature	-55° C. to +125° C.
Shock	50 g.
Vibration	20 g.
Outgassing	Meets NASA Outgassing Requirements
Mating Force	(10 Ounces) X (# of Contacts)
For additional performance requirements, please refer to MIL-DTL-83513	

HERMETIC LEAK RATE MOD CODES

Designator	Required Leak Rate
-585A	1 x 10 ⁻¹⁰ cc's Helium per second
-585B	1 x 10 ⁻⁹ cc's Helium per second
-585C	1 x 10 ⁻⁸ cc's Helium per second