

**MIL-DTL-83513 Type  
Micro-D Hermetic Connectors  
Materials/Finishes and Performance Specifications**



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

PERFORMANCE SPECIFICATIONS	
Current Rating	1.5 AMP
Dielectric Withstanding Voltage	150 VAC
Working Voltage	100 VDC
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	40-50 Milliohms Maximum
Hermeticity	1 x 10 <sup>-7</sup> 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 (MOD Code 429)
Mating Force	(10 Ounces) X (# of Contacts)
For additional performance requirements, please refer to MIL-DTL-83513	

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HERMETIC LEAK RATE MOD CODES	
Designator	Required Leak Rate
585A	1 x 10 <sup>-10</sup> cc Helium per second
585B	1 x 10 <sup>-9</sup> cc Helium per second
585C	1 x 10 <sup>-8</sup> cc Helium per second

Dimensions in Inches (millimeters) are subject to change without notice.