MICRO D AND D SUB CONNECTORS

HSC HERMETIC SEAL™ AMETEK ENGINEERED INTERCONNECT AND PACKAGING

Microminiature D Connectors

Microminiature D connectors are compact, high-density interconnect solutions designed for applications requiring minimal space without compromising performance. With features like a sealed glass insulator and various pin configurations, Micro D connectors offer robust reliability, ensuring secure connections in critical electronic system.



General Description and Advantages

- HSC's hermetic Micro D connectors are manufactured to meet performance requirements.
- The standard connector comes with a durable Kovar body material and gold plated Kovar contacts.
- Body is plated with electrodeposited Nickel per SAE-AMS-QQ-N-290 Class 2, 200-300 microinch thick.
- The insulator is made of matched sealed glass forming a strong chemical bond with the metal body creating a hermetic seal.
- A resilient Fluorosilicone rubber interfacial seal may also be provided as a moisture barrier.
- Ideal usage of these connectors is for electronic or electrical equipment, space, commercial and defense (airborne, ground support or shipboard). The connector's size and weight lend to various applications and the D shape ensures a positive polarization.
- MIL-DTL-83513 can be offered as equivalent to MIL spec requirements or custimized.
- Meets all applicable MIL-SPEC requirements and often exceeds them.

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Microminiature D Connectors are manufactured to the following MIL-SPECS

Design Parameters	Specification
Current Rating	1.5 AMP
Dielectric Withstanding Voltage	150 VAC
Working Voltage	100 VDC
Insulation Resistance	>5,000 MΩ
Hermeticity	1 x10 $^{-6}$ cc He/sec at 14 PSI
Shock	50 g.
Vibration	20 g.
Matting Force	10 ounces per contact

D Subminiature Connectors

D Subminiature connectors are versatile, characterized by their distinctive D- shaped design, which ensures proper alignment and prevents incorrect mating. These connectors are available in multiple configurations and are constructed from durable materials, resisting environmental factors.

General Description and Advantages

- Standard cold rolled and/or stainless-steel body material comes with #52 alloy gold plated contacts.
- Standard finish is electro-tin fused; other finishes are available.
- The insulator is made of a compression-sealed glass.
- Qualified Product Listed.
- Ideal usage is in electronic and electrical equipment for commercial and defense applications, including airborne, ground support, or shipboard systems.
- Size and weight lend the connector to various applications, and the D shape ensures a positive polarization.
- MIL-24308 can be offered equivalent to MIL spec requirements and customized depending on application needs.
- Meets all applicable MIL-SPEC requirements and often exceeds them.

MICRO D AND D SUB CONNECTORS

D Subminiature Connectors are manufactured to the following MIL-SPECS

Design Parameters	Specification
Insulation Resistance	> 5,000 MΩ EIA-364-21
Corrosion resistant (Salt Spray Testing)	48 hours EIA-364-26 test condition B
Electrical interruption due to shock	< 1microsecond EIA-364-27 test condition E
Thermal Cycle	-55°C - +125° CEIA-364-32 test condition I
Contact Size	20
Positions	9,15, 25, 37, 50 MIL-DTL-24308/9
Hermeticity	1 x10 $^{-6}$ cc He/sec at 14 PSI

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