



Amphenol High Speed Hermetic Connectors

BENEFITS

- + Leak rate of 1×10^{-7} cc He/sec or less @ 1atm differential
- + Fused glass insert in stainless steel
- + Operating Frequency: 0-500 MHz
- + Insulation Resistance: 1,000 megohms min. at 25°C
- + Dielectric Withstanding Voltage: Center to Outer 500 VAC Rms at sea level
- + Contact Resistance:
 - Center at 1 Amp, 55 millivolts max. voltage drop at 25°C
 - Outer at 1 Amp, 55 millivolts max. voltage drop at 25°C

FEATURES

- + Incorporates size 8 coax contacts
- + Termination choices:
 - Printed circuit tails
 - Solder cup
- + Shell Finishes:
 - Passivated stainless steel, 200°C
 - Passivated stainless steel with Nickel plate

OPTIONS

- + Special flanges
- + PC board mounting stand-offs
- + EMI filtering
- + Through-bulkhead configurations

CONTACT US:

Matt Bobal
E-mail: mbobal@amphenol-aao.com
Phone: 607-563-5110

OVERVIEW

Amphenol Aerospace is offering superior electrical performance plus the rugged design of a glass sealed hermetic connector.



High Speed Hermetic Connectors have been designed to meet the demands of today's harsh environments and superior electrical needs.



Amphenol Aerospace is a leading supplier of high performance hermetic connectors. Amphenol's glass sealed hermetic connectors are available in a wide variety of MIL-Spec and custom configurations.

Sealed Connector Options

AMPHENOL HERMETIC CONNECTORS

Highly reliable glass sealed connectors:

- + Leak rate of 1×10^{-7} cc of He/sec or less
- + Utilizes fused glass inserts in a stainless steel shell
- + Approximately 1/2 inch longer than standard series
- + Filter and transient protection integration available
- + Hermetically sealed high speed coax contacts available

For more information, see the Hermetic section of Amphenol's combined circular catalog on-line at amphenol-aerospace.com



AMPHENOL EPOXY FILLED CONNECTORS

Lightweight alternative to glass sealed hermetic connectors:

- + Leak rate of 1×10^{-5} cc of He/sec, maintained after temperature cycling, 5 cycles -55 to $+125^{\circ}\text{C}$
- + Available in virtually all major MIL-Spec circular connectors
- + Available in standard and custom configurations

SEALED RECEPTACLES WITH CRIMP CONTACTS

Lightweight alternative to glass sealed hermetic connectors:

- + Uses Amphenol's standard "Filter Epoxy Compound" - 40 years of proven reliability
- + Intermateable & intermountable with standard 38999 Series III plugs
- + Crimp termination using Amphenol's UTS (Universal Termination System)
- + Extra thick panel mounting capable - up to .375 in.
- + Skydrol and jet fuel resistance inserts and seals



AMPHENOL AQUACON CONNECTORS

Designed to provide maximum service in oceanic or fluid immersion applications, features and benefits include:

- + Underwater use
- + Hermetically sealed - Moisture/oil resistant
- + 1500 PSI capability
- + Leak rate of 1×10^{-7} cc of He/sec or less
- + Utilizes fused glass insert in a stainless steel shell

For more information, see the Aquacon section of Amphenol's combined circular catalog on-line at amphenol-aerospace.com



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