

Engine Connectors - High Temperature, High Vibration

Amphenol produces several connectors that are designed for use in harsh environments such as gas turbine engines and other military aerospace applications. Amphenol is widely accepted as a prime supplier of stainless steel/firewall connectors. High vibration capabilities are also offered within these connector types due to their non-decoupling designs. This page gives an overview of Amphenol's high temperature/firewall and high vibration Engine Application Connectors.

Mil-Specs covered within Engine Connectors:

- Pyle MIL-C-83723, Series III
Stainless Steel/Firewalls
- MIL-DTL-38999 Series III
Stainless Steel/Firewalls
- MIL-C-26500 Stainless Steel Firewalls
- Matrix® MIL-C-5015 Stainless Steel/Firewalls

High Temperature/Firewall and High Vibration Capable Connectors

Amphenol®/Pyle® MIL-C-83723 Series III, EN2997 and ESC Styles



Miniature cylindrical MIL-C-83723 Series III and high temperature derivative connectors for aircraft engines. These connectors are capable of operation at temperatures up to 260° C. Within the family there are several styles designed specifically to meet the performance requirements of the following specifications:

- Aerospatiale: ASN-EO44X Class KE/SE
- AECMA EN2997
- Boeing: BACC63CM/CN
- General Electric: M50TF3564
- Rolls Royce/SBAC: ESC 10/ESC 11/ESC 15/ESC 16

MIL-C-83723 Series III Engine Connectors also offer the user a major performance advantage through a unique threaded coupling mechanism that features a greater resistance to decoupling than to coupling; in high vibration situations such as in jet aircraft engines, there is added assurance that the connectors will not decouple. These connectors are also described on page 19.

Amphenol® MIL-DTL-38999 Series III



Subminiature cylindrical MIL-DTL-38999 Series III stainless steel/firewall connectors, in Classes RK and RS, which are capable of temperatures up to 200° C. These connectors meet the highest performance requirements of MIL-DTL-38999 which includes high EMI/EMP shielding and electrolytic erosion resistance.

The latest Amphenol development in MIL-DTL-38999 technology, designed to provide assurance of non-decoupling under severe vibration, is the MTV CLUTCH-LOK™. These connectors have a unique clutch design that will not only remain mated and fully coupled under vibration, but will also tighten itself.

These connectors are also described on page 12.

Amphenol®/Pyle® MIL-C-26500



Pyle FPK/FPL miniature cylindrical MIL-C-26500 stainless steel/firewall connectors capable of temperatures up to 260° C. These connectors meet the fireproof requirements of MIL-C-5015, Class K. Within the family there are several variations including those designed to meet specifications of:

- Lockheed aircraft
- General Electric
- Boeing: BACC63

These connectors are also described on page 20.

Amphenol®/Matrix® MIL-C-5015



MS/Standard MIL-C-5015 firewall versions meet Classes KT and KS of MIL-C-5015 and are capable of temperatures to 200°C.

These connectors are also described on page 24.

Please see our websites:

www.amphenol-aerospace.com
www.amphenol-industrial.com