Series 806 Mil-Aero: Advanced performance, reduced size and weight

Innovative design meets key performance benchmarks for harsh vibration, shock, and environmental settings—as well as high-altitude, unpressurized aircraft zones with aggressive voltage ratings and altitude immersion standards.

SAVE SIZE AND WEIGHT WITH SERIES 806 CONNECTORS

- Next-generation small form factor aerospace-grade circular connector
- Designed for harsh application environments such as aircraft, industrial robotics and more
- Upgraded environmental, electrical and mechanical performance
- Integrated anti-decoupling technology
- Higher density 20HD and 22HD crimp contact arrangements
- Hermetic and filter versions
- +200°C temperature rating
Series 806 Mil-Aero Ultraminiature Circular Connectors for harsh mil-aero applications IAW MIL-DTL-38999

Series 806 Mil-Aero: Features / Specifications

- Supported wire sizes:
  - #20HD contacts
  - 20–24 AWG
  - #22HD contacts
  - 22–28 AWG
- Dielectric withstanding voltage:
  - #20HD layouts: 1800 Vac
  - #22HD layouts: 1300 Vac
- Reduced pitch triple-start modified anti-decoupling stub ACME mating threads
- “Triple ripple” wire sealing grommet (75,000 ft. rated)
- Integral Nano-Band shield termination platform
- EMI shielding effectiveness per D38999M para. 4.5.28 (65 dB min. leakage attenuation @ 10GHz)
- 10,000 amp indirect lightning strike
- MIL-S-901 Grade A high impact shock

Available Lightweight Aluminum “Code Red” Hermetics

Code RED is a lightweight encapsulant sealing and assembly process with 50% package-weight savings compared to glass-to-metal seal Kovar/stainless steel solutions. Non-outgassing CODE RED (IAW NASA/ESA) provides durable hermetic sealing with 1X10^-7 leak rate performance. Gold-plated copper contacts deliver outstanding low-resistance current carrying capacity.

Series 806 Mil-Aero Plug

- Coupling Nut Retainer Ring: Stainless steel
- Coupling Nut: Aluminum alloy
- Insert Retention Ring: Stainless steel
- Wire Seal: Fluorosilicone rubber
- Insulators: Glass-filled rigid dielectric
- Contacts: Gold-plated copper
- Plug Barrel: High strength alloy

Series 806 Mil-Aero Receptacle

- Insert Retention Ring: Stainless steel
- Wire Seal: Fluorosilicone rubber
- Insulators: Glass-filled rigid dielectric
- Jam Nut: Aluminum alloy
- Shell / Mating Interface: Aluminum, modified triple-start

Smaller and Lighter with Equal D38999 Performance?

- High-Density Layouts: Twice as many contacts in a smaller package
- “Top Hat” Insulator: High voltage rating, foolproof alignment
- Triple Ripple Wire Seal: Reliable 75,000 ft. altitude immersion