

NEXT-GENERATION
ULTRAMINIATURE
CONNECTORS

SERIES
806
MIL-AERO

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

Series 806 Mil-Aero
Smallest Size
.500 In. Mating Threads
3 #20 Contacts or 7 #22
contacts



MIL-DTL-38999
Smallest Size
.625 In. Mating Threads
3 #20 Contacts or 6 #22
contacts



- 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

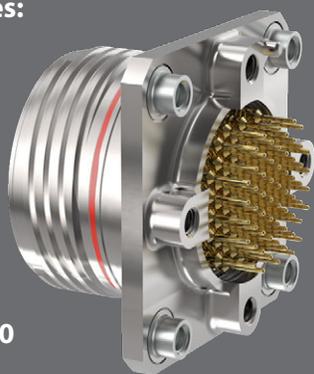
Series 806 Mil-Aero Ultraminiature Circular Connectors



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
22–28AWG
- 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



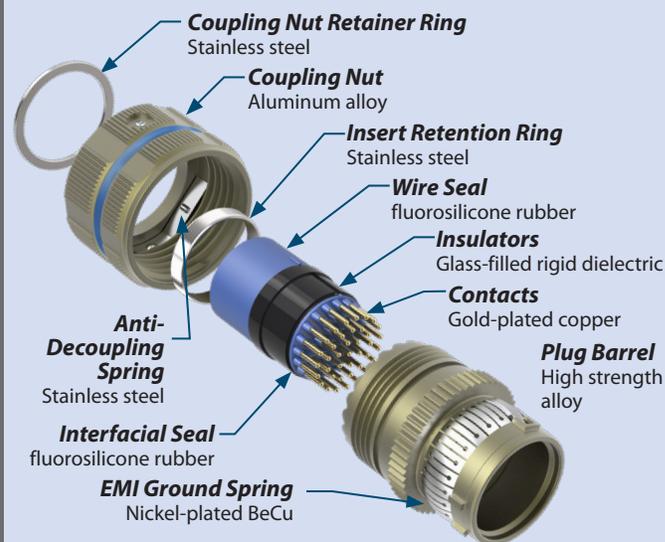
AVAILABLE LIGHTWEIGHT ALUMINUM “CODE RED” HERMETICS

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 1×10^{-7} leak rate performance. Gold-plated copper contacts deliver outstanding low-resistance current carrying capacity.

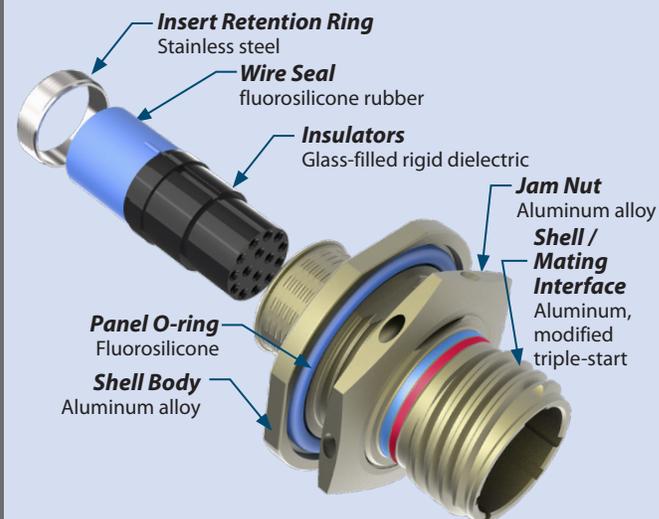


CODE RED

SERIES 806 MIL-AERO PLUG



SERIES 806 MIL-AERO RECEPTACLE



SMALLER AND LIGHTER WITH EQUAL D38999 PERFORMANCE?

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