Commercial AEROSPACE

Rugged Fiber Optic CONNECTORS

Series 806 Mil-Aero

Series 806 Mil-Aero is a Glenair Signature solution designed for advanced fiber optic performance in a reduced size- and weight package. Designed from the ground up to meet the requirements of aircraft engine and SWAMP (Severe Wind And Moisture Problem) areas, Series 806 incorporates features to withstand the harsh vibration, shock, pressure, and temperature challenges of modern aircraft applications. This innovative connector design meets key performance benchmarks in rigid conformance with MIL-DTL-38999 Series III—at nearly half the size and weight.

DYNAMIC VIBRATION AND SHOCK RESISTANCE
EXTREME TEMPERATURE RESISTANCE
ENVIRONMENTALLY SEALED
PRESSURIZED AND NON-PRESSURIZED ZONES
CORROSION-RESISTANCE
FLAMMABILITY, TOXICITY, LOW-SMOKE
INDIRECT LIGHTNING STRIKE
EASE-OF-MAINTENANCE
UNCOMPROMISED RELIABILITY

SAVE SIZE AND WEIGHT WITH SERIES 806 MIL-AERO CONNECTORS

Series 806 Mil-Aero
smallest shell (size 8)
.500 in. mating threads
3 #20 electrical or optical contacts / termini

MIL-DTL-38999
smallest shell (size 11)
.750 in. mating threads
2 #16 electrical or optical contacts / termini

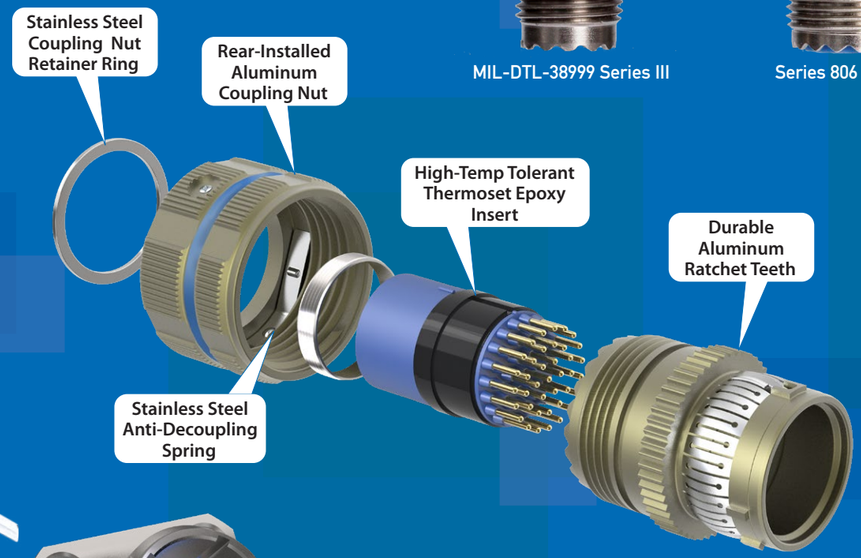
GLENAIR
QwikConnect

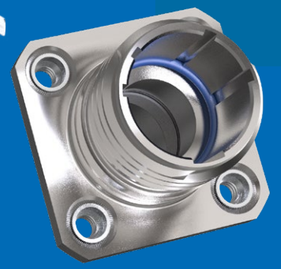
Designing for Performance

This side-by-side comparison shows the shallow ramp stub Acme triple-start thread of the Series 806 (right) compared to the steeper thread of a standard D38999 Series III connector (left). The 806 thread is more resistant to loosening under vibration compared to the standard mil-spec part.

MIL-DTL-38999 Series III

Series 806 Mil-Aero





The O-ring peripheral seal not only provides an excellent moisture seal, but also a mechanical and electrical benefit. Because the O-ring displaces radially, it allows full metal-to-metal bottoming without the use of tightening tools. This feature, combined with the shallow ramp threads, results in secure, vibration-resistant coupling by hand, no tool required. Metal-to-metal bottoming is essential for long-term mechanical survivability, EMI, and shell-to-shell conductivity.

ALSO-AVAILABLE INDUSTRY-STANDARD TECHNOLOGY: Ultra-Low dB Loss **ARINC 801** Fiber Optics

- Genderless terminus design eliminates pin and socket complexity
- Rear-release size #16 termini
- Singlemode and multimode
- Mechanical and environmental performance IAW ARINC 801 standards
- Sav-Con Connector Savers available