



LIGHTWEIGHT

# Composite Backshells and Accessories

Corrosion resistance, weight reduction, durability and design innovation



Composite Swing-Arm™ shield termination strain-relief clamp

Composite Band-in-a-Can shield termination backshell and strain-relief clamp

## 1000 HOUR GREY™ Ni-PTFE NICKEL FLUOROCARBON POLYMER PLATING



The MIL-DTL-38999 Rev L detail specification lists Nickel Fluorocarbon Polymer as a qualified Cadmium free plating alternative. This highly conductive, RoHS compliant plating formula is now available on composite interconnect products from Glenair and offers the following benefits in harsh-environment applications:

- 2000+ hour salt spray
- Cadmium free
- Outstanding mating lubricity
- Hexavalent Chromium free
- 500+ mating cycles
- Non-Magnetic



- High temperature engineered thermo-plastics for maximum strength and durability
- Total immunity to galvanic corrosion
- Up to 70% weight reduction compared to standard metal connectors and accessories
- Hundreds of innovative, tooled designs in stock

## COMPOSITE Circular and Rectangular Backshells and Accessories



### COMPOSITE DESIGN INNOVATION REDUCES CABLE HARNESS ASSEMBLY TIME



| Composite Thermoplastic Vs. Common Metal Materials |                  |                                   |              |
|----------------------------------------------------|------------------|-----------------------------------|--------------|
| Material                                           | Specific Gravity | Density (lbs. Inch <sup>3</sup> ) | Salt Spray   |
| Composite                                          | 1.27 - 1.51      | .055                              | 2000+ Hrs    |
| Aluminum                                           | 2.55 - 2.80      | .098                              | 48-1000 Hrs  |
| Titanium                                           | 4.51 - 4.62      | .162                              | 500-1000 Hrs |
| Stainless Steel                                    | 7.70 - 7.73      | .284                              | 500-1000 Hrs |
| Brass                                              | 8.40 - 8.70      | .305                              | 500-1000 Hrs |

Glenair composite interconnect components are principally manufactured from 30% glass fiber polyetherimide (PEI). At room temperature PEI exhibits tensile strength yield of over 15,000 psi. The PEI material meets the most stringent outgassing and flammability requirements.



### ULTRA-LIGHTWEIGHT COMPOSITE THERMOPLASTIC SHIELD TERMINATION

