

SERIES 107
BRAIDED GROUND
STRAPS
LIGHTWEIGHT
CONFIGURABLE

ARMORLITE™

Braided Ground Straps for electrostatic discharge, lightning strike and aircraft electrical power distribution applications



Lightning strikes, static electricity, and transient electrical currents from power systems have enough electrical potential to cause discharge on an aircraft that can ignite ground fuelling equipment or fry avionics gear. These events are managed in aircraft, Navy ships, next-generation eVTOL air taxis, and elsewhere via electrical bonding. Flexible bonding straps connect equipment, airframes, and structural elements to flight control surfaces to conduct destructive electrical surges to ground or bus bar components capable of absorbing the transient voltage.

Glenair designs and supplies a broad range of lightweight braided ground strap technologies, from our signature ArmorLite™ microfilament braided material for both commercial and military applications.

- **Ultra-lightweight** ground straps with highly conductive or dissipative performance
- **Significant contribution to weight reduction initiatives** in commercial and military aircraft
- **Standard-Duty Drawn Metal A-A-59569** plated copper and stainless steel materials also available
- **Mil-aero designs** with strap and lug configuration options beyond the mil-spec
- **Fast turnaround** on requests for unusual and build-to-print requirements

LIGHTWEIGHT

ARMORLITE™

Microfilament nickel-clad expandable stainless steel conductive braid material



ArmorLite™ is an ultra-lightweight microfilament stainless steel braiding material fabricated by Glenair into various forms of sleeving, shielding, and ground straps for EMI, lightning strike, and ESD applications

Save weight and fuel every time you fly! All-Up-Weight (AUW) has met its match: ArmorLite™ microfilament stainless steel braid material saves pounds compared to standard QQ-B-575/A-A-59569 solutions. Braided into cable shielding or ground straps, ArmorLite™ is a high-performance, high-strength, conductive stainless steel material ideally suited for use in aerospace applications. The principal benefit of ArmorLite™ is its extreme light weight compared to conventional nickel/copper braid material. By way of comparison, 100 feet of 5/8 inch ArmorLite™ braid is more than four pounds lighter than standard 575 A-A-59569 shielding. The ArmorLite braided ground straps in this catalog demonstrate outstanding performance in both ESD and lightning strike testing. Consult factory for complete test reports.

- **Ultra-lightweight** EMI/RFI braiding material for high-temperature applications -80°C to +260°C
- **Microfilament stainless steel: 70% lighter** than NiCu A-A-59569/QQB575
- **Outstanding electrical performance:** shielding, conductivity, and grounding
- **Commercial and military aerospace** qualifications
- **Superior flexibility** and “windowing” resistance
- **Strong:** 70,000 psi (min.) tensile strength
- **Best performing metallic braid** during lightning tests (IAW ANSI/EIA-364-75-1997 Waveform 5B)