A single lightning strike can hit an aircraft with as much as 1,000,000 volts. Static electricity can charge an aircraft, particularly in cold and wet air, with enough electrical potential to result in a discharge that can ignite ground fueling equipment or fry avionics gear. Power generation systems (engines, alternators, starters, etc.) can also produce transient electrical current that can damage adjacent electronic systems.

Damage from these events is minimized and managed in aircraft, Navy ships, mass transit systems and elsewhere through the use of electrical bonding. Flexible bonding straps are attached between equipment and airframes as well as between structural elements and flight control surfaces to conduct destructive electrical surges to ground or to bus bar components capable of absorbing significant amounts of transient voltage.

Glenair has designed and supplies a broad range of braided ground strap technologies to both commercial and military aerospace customers, as well as US Navy and a broad range of mass transit applications. Our ground strap technologies are exacely designed with appropriate conductive and dissipative materials for each application.

Ultra-lightweight ground straps with highly conductive or dissipative performance

Metal-clad microfilament braided solutions

Significant contribution to weight reduction initiatives in commercial and military aircraft

Heavy-duty variants for electrical potential grounding from engines, starters, and power units

Mil-qualified designs for Navy shipboard applications

Fast turnaround on requests for unusual and build-to-print requirements
## LIGHTWEIGHT ARMORLITE™ MICROFILAMENT GROUND STRAPS

- Ultra lightweight metal-clad stainless steel braid material
- Low-profile lug design and assembly
- Available in seven widths and any length
- Low electrical resistance and high temperature tolerance
- High conductivity-to-weight / material-cross-section ratio
- Corrosion resistant materials for life-of-system durability
- Bend cycle durability up to 250,000 cycles per EN4199-001

## GENERAL DUTY, CONFIGURABLE GROUND STRAPS

- Designed for general-purpose military and commercial aerospace as well as mass transit and industrial applications
- Nickel-plated copper lugs with configurable mounting hole options
- Broad range of standard-duty braid materials, including tin and silver-plated copper, stainless steel, and nickel 200
- Insulated sleeving option for environmental protection

## MIL-DTL-24749 TYPE IV QUALIFIED GROUND STRAPS FOR NAVY SHIPBOARD APPLICATIONS

- Meets the rigorous specifications of MIL-DTL-24749 Rev. B Type IV
- Tested to survive 1000 hours salt spray
- Unique Stainless Steel/Nickel hybrid braid
- Available in six standard configurations, with non-standard length/lug size configurations available
- Rugged square form-factor lug

## FAST TURNAROUND ON UNUSUAL/BUILD-TO-PRINT REQUESTS

- Hybrid braid materials and customizable lug material options
- Specialized lug configurations including integrated bonding hardware and angled lugs
- Heavy-duty braid and lug configurations
- Round cross-section braid
- Harsh environment and chemical-resistant ground strap jacketing

## GROUND CONTROL EARTH BOND SYSTEM

<table>
<thead>
<tr>
<th>How To Order</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>600-120</td>
<td>Hydraulic Setting Tool for 1/4&quot; Earth Bonds</td>
</tr>
<tr>
<td>600-123</td>
<td>Hydraulic Setting Tool for 3/8&quot; Earth Bonds</td>
</tr>
<tr>
<td>600-124</td>
<td>Hydraulic Setting Tool for M6 Earth Bonds</td>
</tr>
<tr>
<td>600-125</td>
<td>Hydraulic Setting Tool for M10 Earth Bonds</td>
</tr>
</tbody>
</table>

The tools feature one hand operation and ram retract mechanism actuated by release trigger. Consult factory for control gauges and earth bond part numbers for each material type and size.