

## Segmented Lightning Diverter Strips

Lightning Diversion Systems is the pioneer and market leader in the design and manufacture of Segmented Lightning Diverter Strips and has stayed at the forefront of development to meet the needs of the full range of frequencies at which today's antennas operate.

Fourth generation diverter strips are currently available for the complete requirements of military and commercial fixed wing Aircraft, Rotorcraft and UAVs.

Segmented diverter strips provide maximum multiple-strike protection with negligible effect on RF pattern characteristics.

- Attached to an aircraft's radome or other structure, the system allows a lightning strike to travel safely and directly to ground in an ionized channel created in the air above the diverter strip.
- It combines permanent protection with low drag aerodynamics and has a negligible effect on radar antenna radiation patterns.
- The electrostatic shield created by the system provides a new source of streamers outside the radome wall to the fuselage.
- The resistance material in the strips help initiate the ionized channels and provides a bleed-off path for P-static.

- The small diameter of the disc segments makes the strips compatible with radar systems including Ku and Ka band antennas, and disc size can be modified for optimum antenna patterns at higher frequencies.
- Weight:
  - .012 Material Thickness  
Measured: 8.2 grams per 3 ft. section
  - .005 Material Thickness  
Measured: 5.4 grams per 3 ft. section
- Ease of Installation and Maintenance Cost with no holes drilled for installation to a radome, eliminating potential moisture problems.
- Benefits over solid diverter strips include fewer parts, easier installation with no drilling of holes, and no current flow in our segmented strips whereby you do not have electromagnetic effects from current flow in solid diverters or the physical damage from high current making right turn from a solid strip diverter to a bolt.
- Quality tested to DO-160 requirements.

Extensive testing indicates that the Lightning Diversion Systems strips will withstand current transfer greater than 200,000 amperes with little or no damage. (More than 99.5% of natural lightning strokes measured display peak current of less than 150,000 amperes.)

