



SUCCESS STORY

Electromagnetic Solutions for Military Slip Rings

Electric slip ring signal and data transmissions require EMI shielding or EMC compliance between stationary and rotating systems. Spectrum Control delivers.

Spectrum Control delivers reliable products for the most rugged environments. This includes offering one of the largest and most trusted selections of EMI filtering components and assembly solutions for EMC compliance, energy efficiency, and power management, addressing both conducted and radiated EMI.

Plus, Spectrum Control manufactures the ceramic capacitors used in all of its filtering products. They are designed and produced in the State College, PA (USA) facility, providing customers with high-quality parts and the industry's shortest lead times.

Circular & Specialty Connectors

Filtered circular connectors are available in stainless steel, aluminum, composite shells, ideal for environmental and weight-sensitive aircraft applications. Cadmium, nickel, black nickel-zinc plating connectors are excellent for Military, RoHS, and harsh environments.

Connectors for transient survival that meet criteria for RTCA/DO-160, level 4 (1,500 voltage transient) are also available.

D-Sub Filtered Connectors

D-sub filtered connectors are designed for high reliability and demanding environmental applications. These connectors have various termination options such as PC mount, wire wrap, solder cup, and 90° PCB.

Spectrum Control manufactures a wide range of capacitance and selectively loaded designs. This includes a large capacitance pin-to-pin ratio range, providing power and signal filtering in a single package.



Discrete EMI Filters

Resin Sealed EMI filters are cost-effective and have design flexibility with a wide range of sizes, lead options, and circuit configurations.

Hermetically Sealed EMI filters feature hermetic glass seals with high EMI filtering performance. They are impervious to high moisture environments, solvents, and severe conditions.

Applications

Pedestal Products

- Missile launcher
- Airborne turret systems

Marine Swivels

- Towed arrays
- Shipboard antennas
- Radar and energy

Optical Systems

Ground Vehicles

- Tanks
- Mobility artillery
- Vehicles with moveable turret

Military/FAA Radars

- Ground radar
- Airborne radar



Circular & Specialty Connectors



D-Sub Filtered Connectors



Resin & Hermetically Sealed EMI Filters