

# Carlisle Interconnect Technologies

## EMI & TVS Filter Capabilities Protect Your Most Critical Data

Carlisle Interconnect Technologies (CarlisleIT) is a manufacturer of high reliability interconnect solutions for the aerospace, defense, test and measurement, industrial, space and medical markets. CarlisleIT has a broad product offering ranging from component level to complete interconnect solutions that include: high performance bulk wire and cable; optical fiber; RF, filtered, Transient Voltage Suppression (TVS) and specialty connectors; contacts; crimp splices; fully integrated racks; lightweight ARINC trays and Electronic Flight Bag (EFB) solutions.

In addition to its interconnect products, CarlisleIT has a long history of providing customers with system integration engineering services and certification as well as design and manufacturing of full turnkey installation kits installed on transport, regional, corporate and military aircraft.

CarlisleIT has built this integrated offering through uniting global brand leaders such as Tensolite, Carlyle, Jerrik, ECS and, more recently, Tri-Star Electronics International by strategic acquisitions and by a committed execution of the enterprise-wide Carlisle Operating System (COS). COS focuses on continuous improvement of quality, cost and on-time delivery of products with the alignment of organizational purpose and elimination of non-value added activity.

CarlisleIT/Jerrik, located in Tempe, Ariz., is a premiere designer and manufacturer of EMI filter and Transient Voltage Suppression, and Specialty (custom) connectors and specializes in manufacturing connectors that meet various military specifications and custom configurations while taking advantage of the latest design, material and manufacturing standards in our industry.



### About our Filter Connectors

- All of CarlisleIT's filter connectors are based on a design concept that meets the strictest requirements of 38999 III qualification including full shock and vibration.
- Low band pass filters constructed of multi-pin capacitor array assemblies. The capacitor array is the ideal construction for stopping unwanted signals at the customer's box interface.
- The monolithic capacitor construction also allows the end-user to specify multiple capacitance values, feedthroughs and/or ground contacts for every connector.
- Popular circuit selection includes Pi, C, L-C, C-L or T filters.
- 50 ohm insertion loss testing is performed on every filter connector, regardless of mechanical complexity.

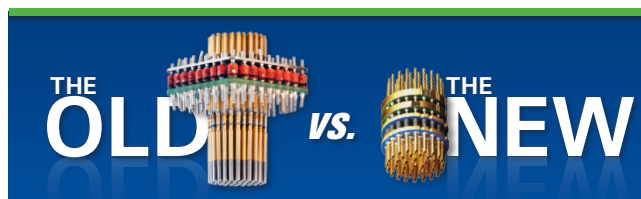
specific and address the requirements of RTCA DO-160 as called for by our customer base.

- CarlisleIT TVS connectors save space, are lighter, more reliable and more cost effective than current industry standards for diodes in Mil/Aero connectors.
- CarlisleIT engineering can provide the customer with a thorough Design Guide when specifying the requirements of the TVS connector.
- Consult your factory representative for the very latest design technology.

### Specialty Connectors

- Resolve challenging mechanical problems with adaptations of all major Military and Aerospace spec'd connectors. Solutions can be as simple as providing PC tails for board manufacturing to much more complex shell and contact solutions.
- CarlisleIT can provide solutions, filtered or non-filtered, that is sealed and capable of meeting IP-67/IP-68 requirements.
- Specialty shells/components can be developed to integrate brackets, etc, for applications specific mounting needs.
- A vast offering of materials and plating options can be specified for shells and contacts.

### TVS FILTER CONNECTORS



### About our Transient Voltage Suppression Connectors

- On average, every commercial aircraft is struck by lightning twice a year.
- CarlisleIT provides lightning protection using a patented zener diode packaging method.
- Our TVS solutions are application

and protection of your own critical data — *When Performance Matters.*

### Contact Information

CarlisleIT  
Phone 480-730-5700 or  
Visit [www.CarlisleIT.com](http://www.CarlisleIT.com)