



PRODUCT FEATURES

- Glenair is the world's largest supplier of EMI shielding backshells and connector accessories. Over 65,000 part numbers are in stock and ready for same-day shipment
- Section includes a small selection of the most practical EMI noise suppression and shielding devices
- Cable shield termination backshells for all filter connector series
- Military standard EMI shielding backshells, shorting plugs and tubular braiding available for complete electromagnetic compatibility

Because the Art of EMI Management Usually Calls for More Technology Than Just a Filtered Connector

Backshells: A Part of Every Well-Designed EMI Management Solution

Effective shielding of avionic devices must anticipate both “radiated susceptibility” (the degree to which outside interference affects the reliable functioning of equipment) and “radiated emissions” (the extent to which the device itself creates electromagnetic waves which can affect its function). In both cases, the techniques for managing the interference include reflecting the signals outright, reducing entry points in equipment and cable shields, absorbing the interference in permeable material and dissipating it as heat, or conducting the EMI along the skin of the device/cable and taking it to ground.

In practical terms, EMI management is accomplished by plating the skins of cases and cable shields, building up the density (thickness) of shield material, or eliminating line-of-sight entry points through which electromagnetic waves can penetrate or escape.

In interconnect applications, wires and cables are typically shielded by placing a conductive material between the cable conductor and its outer jacket, or by covering individual conductors within a cable with shielding material. Again, the purpose of such shielding is to either capture the EMI and take it to ground or to dissipate the interfering signal as heat. Shields must also be effectively terminated to the connector backshell lest radiation enter the system at the backshell/connector/shield interface and defeat the purpose of the shield.

Glenair understands that the management of EMI usually includes technology above and beyond a filtered connector. We offer thousands of EMI management products, and we've organized a small selection of some of the most practical devices here for use in conjunction with filtered connector products.