

Introduction to Crimp Contacts High Performance Shielded



About High Performance Shielded Contacts

Glenair shielded contacts are fabricated from the best available materials and manufacturing processes. Conductive elements are gold-plated copper alloy. Dielectrics are high-performance fluorocarbon. When applicable, contacts are approved to SAE AS39029.

Shielded Coaxial Contacts

Shielded coaxial contacts have a special role in the interconnect system and are designed for use in a wide range military and aerospace connectors that service analog radio frequency or microwave applications. Most Glenair cylindrical connectors, including MIL-DTL-38999, can accommodate shielded coaxial contacts. Rectangular connector packages, such as our high-performance HiPer-D are also ideally suited for shielded high frequency contacts. Glenair coaxial contacts are specified according to size, cable choice and impedance. The contacts are easily incorporated into standard 8, 12 and 16 size contact cavities, enabling users to interchange high-frequency contacts into connector insert arrangements originally designed for power or signal contacts. Special 50 Ohm matched impedance contacts are also available. Various grades of coaxial cables can be supplied directly by Glenair, or other commercial suppliers.



Quadrax

A Quadrax contact is really a “connector within a connector.” These unique high-speed contacts house four discrete size 24 pin or socket contacts within each keyed size 8 crimp body. Two sets of twisted pair wires terminate to the size 24 contacts, while the overall shield is grounded via the outer size 8 shell—affording 360° shielding. These high speed contacts have outstanding EMI compatibility for high data transfer digital applications where little or no power is needed. Standard crimping tools can be used to terminate all components, making shop or field assembly fast and simple.

Shielded Concentric Twinax

These contacts are designed for high-speed twisted pair applications that count on reliable shielding and contact durability. The concentric twinax cartridge is designed for easy crimp termination of twisted pair cable and shielding, and are designed specifically for use in MIL-DTL-38999 connectors. Unlike standard twinax designs, Glenair concentric twinax contacts deliver outstanding shield integrity from the conductor through the connector and do not require contact polarization within the insert. Glenair size #8 concentric twinax contacts feature a hooded socket and hardened plating for outstanding durability. Pin contacts are chamfered for easy and reliable mating. Termination is supported with easy to follow crimp instructions. Assembly tooling is available for these and all Glenair contacts.