



# MORE *HIGH SPEED* MATCHED IMPEDANCE SOLUTIONS FROM GLENAIR

*The world's broadest selection of high-speed, high-bandwidth interconnect products for mil-aero and other harsh environment applications*

Glenair offers a full range of products to solve the most demanding high-speed interconnect challenges—from the size- and weight-saving Mighty Mouse line, to Fiber Optic solutions that address the most demanding high bandwidth and EMI immunity requirements. Many Glenair connector technologies that are suitable for general purpose signal applications also excel in 100 Ohm high-speed differential impedance applications as well as other installations that require low insertion loss, low VSWR and high data-rate performance. These pages present brief overviews of the interconnection systems produced by Glenair capable of delivering benchmarked high-speed performance. Please view these catalogs on our website for additional information

## **Series 80 "Mighty Mouse" Connectors and Cables**

Glenair's revolutionary connector series that reduces interconnect system size and weight by 50% compared to MIL-DTL-38999 connectors. Originally developed as a smaller and lighter alternative to D38999 connectors for aerospace applications, the Mighty Mouse is used on hundreds of mission-critical defense, medical, industrial and geophysical applications. The Mighty Mouse product line includes filtered connectors, power and coaxial layouts, board mount connectors, overmolded cordsets, plus fiber optic and high-speed versions. High-speed cordsets, terminated to a broad range of commercial USB and Ethernet interconnects are available as standard catalog offerings.



## **MIL-DTL-83513 Micro-D Connectors and Cables**

Glenair offers both Military Standard 83513 Micro-D connectors as well as COTS selections, backshells, mounting hardware and more. Our TwistPin contact provides superior performance—especially in vibration and shock applications. Where interconnect failure is simply not an option, the Glenair high-reliability Micro-D offers a wealth of performance benefits which far outweigh any potential cost savings realized by specifying a lesser caliber connector. If downtime is a critical concern, other connectors cannot match the long-term durability and performance advantages of the MIL-DTL-83513 Micro-D.



## Fiber Optic Interconnect Solutions

Today, the use of fiber optic systems to carry digitized voice, video, and data is universal. Fiber optic interconnect systems offer exponentially larger bandwidth compared to standard electrical cabling. Glenair manufactures a solution for every branch of the military and every mission-critical commercial application. Glenair's fiber optic offerings include Series #16 AWG Mighty Mouse, QPL MIL-PRF-28876 fiber optic connectors and MIL-DTL-38999 type solutions, the innovative high-density GHD connector system, and the revolutionary Eye-Beam™ expanded-beam lens terminus. The low insertion loss Eye-Beam™ offers comparable performance to standard butt joint termini in a package that's built to withstand rugged use and frequent mating/de-mating in field conditions.



## AS39029 Qualified High Performance Contacts

Glenair brings a new perspective to the supply of high-performance crimp, shielded and fiber optic contacts: High Availability! Whether you need a standard duty socket for a MIL-DTL-28840 connector or an extended duty pin for MIL-DTL-38999 Series III, we have you covered with products that are always in stock—with no dollar or quantity minimums. The AS39029 product series supplied by Glenair includes all the most popular standard and extended duty pin and socket contacts for use in high-performance circular and rectangular multi-pin connectors. We are particularly well positioned to supply special-purpose shielded Coaxial, Twinax and Quadrax contacts.

## High-Speed Datalink Transmission Connectors

Bridge the gap between high performance data transmission and rugged field-ready circular connectors with Glenair Datalink Transmission Connectors: High-speed serial data connectors and standard duty Ethernet connectors protected with military-grade connector shell packaging. USB, RJ-45 and Quadrax interconnects are integrated inside sealed, ruggedized M5015 and M26482 type connector shells. By integrating the two into a single, refined package, users will no longer have to worry about damaging delicate high bandwidth connections in harsh conditions. The MIL-DTL-5015 or MIL-DTL-26482 type connector shells provide impact resistance, ingress protection and positive coupling—all in a wide array of finishes and shell styles.



## Series 79 Micro-Crimp Connectors

Today's defense/aerospace systems require advanced levels of environmental protection, electromagnetic shielding and size/weight reduction. The Series 79 was developed to meet these needs, especially for applications that require higher-density, smaller size and lighter weight than is provided by the venerable D-sub. The Micro-Crimp connector features crimp, rear-release size #23 contacts on .075 inch (1.9 mm) spacing, as well as size #12 and #16 power and coaxial crimp contacts in a range of hybrid layouts. Panel mounted connectors feature conductive sealing gaskets. Right angle printed circuit board connectors have an EMI shroud to prevent electromagnetic interference. Wire sealing grommets and interfacial seals protect circuits from moisture and contamination. Available in 31 insert arrangements, the Micro-Crimp provides a wide selection of arrangements for high-speed data as well as general-duty signal and power transmission.



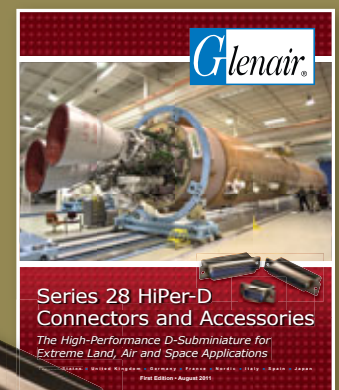
## MIL-DTL-38999 Cylindrical Connectors

MIL-DTL-38999 is a high-performance connector family designed for cable-to-panel I/O applications in military aerospace and other demanding situations. Environmental class plugs and receptacles—with high-density insert arrangements (up to 128 contacts)—are available with crimp removable contacts, PC tails, and solder cups. Glenair manufactures both Military Standard MIL-DTL-38999 as well as commercial Hermetic connectors plus EMI/EMP filter versions, standard environmentals, bulkhead feedthroughs, Sav-Con® connector savers and more. All of our D38999 type solutions are available with contacts and insulators optimized for high-speed applications



## Series 28 HiPer-D Connectors

Meet the Series 28 HiPer-D. Intermateable and intermountable with standard M24308 type D-Subs, the HiPer-D meets the need for improved performance in hostile environments. Unlike standard M24308 connectors with stamped steel shells, the HiPer-D is machined from aluminum or stainless steel. The dielectric inserts are made with thermoset epoxy for unbeatable resistance to chemicals and are capable of 200°C continuous operating temperature. Aerospace grade fluorosilicone grommets and face seals provide watertight sealing. Integrated grounding fingers provide advanced electromagnetic compatibility. Best of all, the HiPer-D is available in every standard and high-density M24308 layout and is stocked for immediate same-day shipment.



Visit us at [www.glenair.com](http://www.glenair.com) and use the literature order form for immediate catalog fulfillment