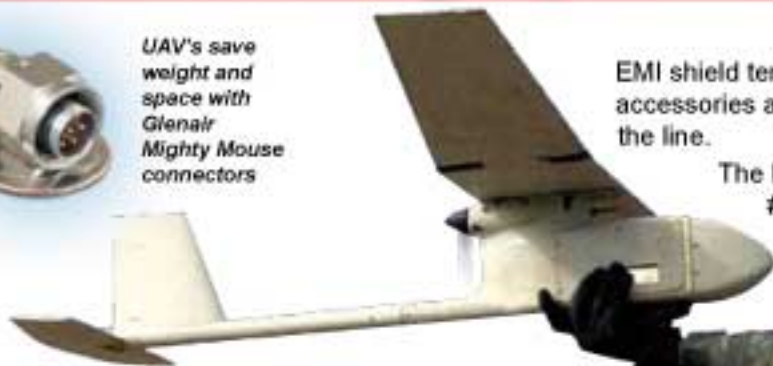


SERIES 80 Mighty Mouse AT A GLANCE



UAV's save weight and space with Glennair Mighty Mouse connectors



EMI shield termination or rear-end threads for backshell accessories are also standard throughout the line.

The Mighty Mouse features #23 contacts to accept #22 to #28 wire. Contact

The Series 80 Mighty Mouse Connector is designed for high-reliability aerospace/defense interconnect applications requiring robust environmental performance and reduced size and weight. The Series 80 Mighty Mouse Connector offers virtually equal performance to MIL-DTL-38999 interconnects with up to 71% weight and 52% size savings for similar contact layouts.

The Series 80 Connector was originally developed as a smaller and lighter alternative to D38999 connectors for aerospace applications such as Attack Helicopters and Unmanned Aerial Vehicles. Today, the Series 80 Mighty Mouse serves in dozens of safety-critical defense, medical, industrial and geo-physical applications.

The Series 80 Mighty Mouse Connector is supplied in six standard designs:

- **Series 800 Light Duty UN Thread**
- **Series 801 Heavy Duty Double-Start**
- **Series 802 "Aqua Mouse" Harsh Environmental**
- **Series 803 Bayonet**
- **Series 804 Quick-Disconnect**
- **Series 805 Triple-Start**

All the connectors in the Series 80 family are available with rear-release crimp contacts or with PC tail or solder cup terminations. Shell styles, including in-line plugs, square-flange and jam-nut receptacles are available for all types. Integrated banding platforms for

spacing is .076." Size #12, #16 and #20 layouts are now available for higher current requirements and for coaxial contact accommodation. The smaller and lighter Mighty Mouse maintains the same approximate electrical and mechanical performance of larger and heavier Military Standard environmental connectors. Insert arrangements are available for as few as 1 and as many as 130 contacts. The products presented in this



Dimensions in inches (millimeters) and are subject to change without notice.

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catalog, including cable sets and backshells, are available with accelerated lead-times—many are packaged for immediate same-day shipment. Custom layouts, such as might be required to accommodate a different gage or type of contact, may be readily incorporated into existing shell and coupling designs.

Born in the U.S.A.

Series 80 Mighty Mouse Connectors are manufactured at Glenair's Air Way factory in Glendale, California. The plant occupies approximately 450,000 square feet. Glenair's connector manufacturing facility is vertically integrated. All connector fabrication, including precision machining, hermetic firing, component assembly, contact termination, potting and electrical testing are completed at the factory.

For custom connector applications, we operate a dedicated prototype development shop complete with CNC machining and EDM equipment. In addition, a wide range of electrical, mechanical and environmental tests are completed in-house including dielectric withstanding voltage, contact resistance, contact engagement and separation, mating cycles, pressure testing and outgassing. Glenair is well versed in connector design and development, and has been producing and qualifying military-standard type connectors for over 35 years. Our Microway facility in Chicago, a 35,000 sq. ft. plant, contributes additional design and tooling resources to the Series 80 Mighty Mouse. Our UK Factory in Mansfield, England participates in performance testing of the product and in the assembly of bespoke cable assemblies for the UK and other EU customers.

Glenair is well known in the interconnect industry as the world's largest manufacturer of military standard and commercial connector accessories (backshells, dust-caps, EMI shield termination devices and so on). We are also the world's largest supplier of MIL-DTL-83513 Micro-D Connectors and M24758 Conduit Systems and Fittings. We also produce hermetic connectors qualified to MIL-DTL-38999 and MIL-DTL-24308, MIL-C-28840 Shipboard Connectors, MIL-DTL-38999 Fiber Optic Connectors and MIL-T-29504 Termini. Our Commercial-Off-the-Shelf

connector products include our Harsh Environmental Series 22 Geo-Marine® Connectors, Sav-Con® Connector Savers, hermetic D-Subminiature products and hundreds of special purpose or custom interconnects for high-performance applications.

UP TO 71% WEIGHT SAVINGS!
UP TO 52% SIZE SAVINGS!

Series 801
Mighty Mouse
7 Contacts



MIL-DTL-38999
6 Contacts

The Series 801 Connector offers up to 71% weight savings and 52% size reduction when compared to D38999 Series III Connectors.

Mil-Qualified Weight Savings

Glenair has qualified thousands of weight saving connectors, backshells, fiber optic components, conduit assemblies and junction-box enclosures to existing and new Mil-Specs. For the Series 80 Mighty Mouse Connector however, we followed the D38999 specification as a guideline for benchmarking performance standards, but took a radically different approach from the Mil-Spec when designing the physical envelope of the product. To appreciate the results, please see the weight and dimension tables that are provided for each individual connector type in this catalog. Note the extraordinary delta between Mighty Mouse and MIL-DTL-38999.

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