

Series 80 Mighty Mouse ASAP Cordsets for High Speed Serial Data Introduction



Mighty Mouse for 100BASE-T
*compared to RJ-45 Plug in MIL-
DTL-38999 Connector*

PRODUCT FACTS

- Compact Weight-Saving Design with size #23 Contacts
- USB 2.0, 100BASE-T, 1000BASE-T, IEEE 1394
- Environmentally Protected, Robust Construction
- Aerospace-Grade Cable Meets FAA FAR 25 Flammability
- Tactical-Grade Cable Meets Low-Toxicity Requirements
- Silver-Coated Copper Braid Shield With 95% Coverage over Aluminized Mylar Shield
- Threaded Coupling, Quick-Disconnect or Bayonet Mating

Glenair's Series 80 ASAP Cordsets for High Speed Ethernet, USB and Firewire Applications

High-reliability aerospace and defense systems have adopted commercial data protocols such as Ethernet and USB; however, commercial-grade connectors such as RJ-45 modular plugs are not suitable for airframe or tactical deployments where shielding, environmental protection, and mechanical robustness are prime considerations. The Mighty Mouse connector, because of its compact size, ruggedness and in-stock availability, is widely deployed for 100BASE-T, 1000BASE-T and USB 2.0 applications on commercial air transport, military airframe, unmanned vehicles, and dismounted soldiers. This section of the Series 80 catalog provides ordering information and technical information on Mighty Mouse cordsets for Ethernet and other high speed data applications. These ASAP cordsets in this section feature military-grade construction with the quickest delivery in the industry.



Full-Duplex Ethernet Switch
*with Glenair Series 801 4 Pin
Receptacles and Glenair 38999
Fiber Optic Connectors*

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



Series 80 Mighty Mouse ASAP Cordsets for High Speed Serial Data Introduction



100BASE-T Cordset
with 4 Pin Series 800 Connector

Upgrade commercial high speed serial interconnects to mil-spec performance. Glenair's ASAP "Mighty Mouse" cordsets are available for 100BASE-T, Gigabit Ethernet, IEE 1394 and USB 2.0 applications. These cordsets combine aerospace-grade data cables with Series 80 "Mighty Mouse" harsh environment connectors for maximum performance and minimum size.

FEP jackets meet FAA flammability requirements. Or, choose **low smoke / zero halogen polyurethane jackets** for mass transit or shipboard applications.

Three strain relief options – Standard overmolded cables offer excellent strain-relief and cable sealing. Or, choose heatshrink boots for smallest form factor. If repairability and ruggedness are important, choose machined aluminum EMI backshells.

Three reasons to specify Glenair Series 80 cordsets

1 Simplified Ordering: No need to buy cable, connectors, termination tools and strain reliefs.

2 Guaranteed Performance: All cordsets are 100% electrically tested.

3 Faster Delivery: Cable and connector components are in stock.

HOW TO ORDER CORDSETS

Step 1: Select the Connector Series

Table 1 lists the five types of Series 80 connectors. For more information on selecting a connector, please refer to the connector selection chart on the following page. This section does not contain ordering information for series 802 "Aqua Mouse" cordsets. Please contact Glenair for information on hazardous environment high pressure cables for the 802 Series.

Step 2: Select the Cable

Table 2 contains specifications for standard data cables. The cable type also determines the connector layout. **4 pin connectors are used for 4 wire cables, and 10 pin connectors are used for 8 wire cables.**

Step 3: Select a Cable Jacket

Table 3 shows available jacket options. Choose FEP fluorocarbon jackets for airframe and avionics applications, or choose low smoke/zero halogen polyurethane jackets for soldier systems, vehicles, and transit systems.

Step 4: Select a Cable-To-Connector Interface

Table 3 provides three ways to attach the cable to the connector:

1. Polyamide boot, overmolded with flexible strain relief
2. Aluminum backshell, shielded, watertight and removable
3. Heat-shrink boot, low smoke/ zero halogen

Step 5: Select a Connector Configuration

Table 1 shows connector codes for specifying plug versus receptacle and pin versus socket contacts. Add a plating code, keying option and length.

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CAGE Code 06324

Printed in U.S.A.

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01-JANUARY-2010