

## ASAP Cordsets For High Speed Serial Data



**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, IEEE 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.

CONNECTOR SELECTION GUIDE	Series 800	Series 801	Series 803	Series 804	Series 805
					
<b>Description</b>	Original “Mighty Mouse” with UNF Threads	Double-Start ACME	¼ Turn Bayonet	Push-Pull	Triple-Start ACME
<b>Notes</b>	A general purpose connector for Ethernet switches, tactical equipment and instrumentation.	More rugged keys and threads compared to Series 800. Faster mating, slightly larger than Series 800.	Quick-mating, light duty, general purpose. Not rated for immersion. 50 milliohms shell-to-shell resistance.	Breakaway connector for headsets and tactical equipment. Gold-plated spring for long mating life and superior EMI shielding.	“Clicker” ratchet mechanism and ground spring for military airframes and avionics boxes. Fast-mating, D38999 equivalent.
<b>Number of Contacts</b>	3 to 37	3 to 85	3 to 85	3 to 85	4 to 85
<b>Coupling</b>	Threaded Coupling with 4 ½ Turns to Full Mate	Threaded Coupling with 1 ½ Turns to Full Mate	Push-to-Mate, ¼ Turn to Lock	Quick-Disconnect with Canted Spring	One Full Turn for Full Mate
<b>Water Immersion</b>	MIL-STD-810 Method 512 1 Meter for 1 Hour	MIL-STD-810 Method 512 1 Meter for 1 Hour	Splashproof	MIL-STD-810 Method 512 1 Meter for 1 Hour	MIL-STD-810 Method 512 1 Meter for 1 Hour
<b>EMI Shielding</b>	Good	Good	Fair	Very Good	Excellent
<b>Vibration and Shock</b>	37 g's Random Vibration 300 g's Shock	37 g's Random Vibration 300 g's Shock	37 g's Random Vibration 300 g's Shock	37 g's Random Vibration 300 g's Shock	37 g's Random Vibration 300 g's Shock
<b>Mating Cycles</b>	2000 Cycles	2000 Cycles	250 Cycles Aluminum 2000 Cycles SST	2000 Cycles	2000 Cycles
<b>Electrical Performance</b>	#12: 23 AMP, 500 VAC #16: 13 AMP, 500 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 500 VAC #16: 13 AMP, 500 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 500 VAC #16: 13 AMP, 500 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 500 VAC #16: 13 AMP, 500 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 500 VAC #16: 13 AMP, 500 VAC #23: 5 AMP, 500 VAC
<b>Proven Performance Applications</b>	Commercial air frame sensors; UAV telemetry; Tactical computers; field radios;	Military air frame; Dismounted soldier; Tactical ground weaponry; Avionic (FLIR) system	Soldier system radios; Autosport diagnostics; Airborne surveillance	Helmet breakaway connector; QDC battery; Missile applications; Weapon interconnect	Autosport; Military air frame; Joint Strike Fighter

# Series 80 "Mighty Mouse" ASAP Cordsets For Ethernet, IEEE 1394 and USB 2.0



**TABLE 1: HOW TO ORDER SERIES 80 CORDSETS FOR HIGH SPEED DATA**

Sample Part Number									
801-024	B	F	P	A	C	M	P	Z	-72
Connector Series	Cable	Cable Jacket	Strain Relief	Connector End A P1	Connector End B P2	Shell Material / Finish	Protective Cover	Shell Pol. Pos.	OAL Length
<p><b>800-035</b> Series 800 Cordset, UNF Threaded Coupling, Hex Nut</p> <p><b>801-024</b> Series 801 Cordset, Double-Start Threaded Coupling</p> <p><b>803-007</b> Series 803 Cordset, Push-Pull With Bayonet Lock Coupling</p> <p><b>804-013</b> Series 804 Cordset, Quick-Disconnect Push-Pull</p> <p><b>805-007</b> Series 805 Cordset, Tri-Start Threaded Coupling with Ratchet and Ground Spring</p>	<p><b>A</b> 100BASE-T Ethernet 4 Cond. UTP, OAL Shield 4 Pin Connector</p> <p><b>B</b> 100BASE-T Ethernet Quad, OAL Shield, 4 Pin Connector</p> <p><b>C</b> 1000BASE-T Gigabit Ethernet 8 Cond. UTP, OAL Shield, 10 Pin Connector</p> <p><b>D</b> IEEE 1394 Hi-Speed Quad 110 Ohm, 4 Pin Connector</p> <p><b>E</b> USB 2.0, Two #22 Power, One STP #26</p> <p><b>F</b> Two STP, 100 Ohm, OAL Shield, 4 Pin Connector</p> <p><b>G</b> Four STP, 100 Ohm, OAL Shield, 10 Pin Connector</p>	<p><b>F</b> FEP Fluorocarbon Jacket, Translucent Blue</p> <p><b>P</b> Low Smoke/Zero Halogen Polyurethane Jacket, Black</p>	<p><b>P</b> Polyamide Overmold</p> <p><b>B</b> Metal Backshell</p> <p><b>H</b> Heat-Shrink Boot, Low Smoke/Zero Halogen</p>	<p><b>A</b> Plug, with Male Pin Contacts</p> <p><b>B</b> Plug, with Female Socket Contacts</p> <p><b>C</b> Receptacle, with Male Pin Contacts</p> <p><b>D</b> Receptacle, with Female Socket Contacts</p>	<p><b>A</b> Plug, with Male Pin Contacts</p> <p><b>B</b> Plug, with Female Socket Contacts</p> <p><b>C</b> Receptacle, with Male Pin Contacts</p> <p><b>D</b> Receptacle, with Female Socket Contacts</p> <p><b>N</b> No Connector (Single-Ended)</p>	<p><b>M</b> Aluminum / Electroless Nickel</p> <p><b>NF</b> Aluminum / Cadmium with Olive Drab Chromate</p> <p><b>ZN</b> Aluminum / Zinc-Nickel with Olive Drab Chromate</p> <p><b>ZNU</b> Aluminum / Zinc-Nickel with Black Chromate</p> <p><b>Z1</b> Stainless Steel / Passivated</p>	<p><b>P</b> Metal Protective Covers Included</p> <p><b>N</b> No Covers Supplied</p>	<p>Polarizing position depends on the connector series.</p> <p>For Series 800 and 803: <b>N</b> Normal <b>X</b> Pos. X <b>Y</b> Pos. Y <b>Z</b> Pos. Z</p> <p>For Series 801 and 805: <b>A</b> Normal <b>B</b> Pos. B <b>C</b> Pos. C <b>D</b> Pos. D</p> <p>For Series 804: <b>Omit</b> for Single Master Key <b>A</b> Normal <b>B</b> Pos. B <b>C</b> Pos. C <b>D</b> Pos. D</p>	<p>Overall Length In Inches</p> <p>12 Inch Min.</p>

