

Different application requirements call for different interconnect solutions. The Series 80 “Mighty Mouse” Connector has been designed to address virtually every unique application requirement faced by a high-performance circular connector. Each coupling configuration delivers robust environmental/EMI performance while reducing the size and weight of the overall interconnect package.

SERIES 800

SERIES 801



Description	Original “Mighty Mouse” with UNF Threads	Double-Start ACME Thread
Number of Contacts	1 to 37	1 to 130
Coupling	Threaded Coupling with 4 ½ Turns to Full Mate	Threaded Coupling with 1 ½ Turns to Full Mate
Water Immersion, Mated	MIL-STD-810 Method 512 Mated 1 Meter for 1 Hour	MIL-STD-810 Method 512 Mated 1 Meter for 1 Hour
EMI Shielding	Good	Good
Vibration and Shock	37 g's Random Vibration; 300 g's Shock	37 g's Random Vibration; 300 g's Shock
Mating Cycles	2000 Cycles	2000 Cycles
Electrical Performance	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #23: 5 AMP, 500 VAC
Proven Performance Applications	Commercial air frame sensors; UAV telemetry; Tactical computers; field radios	Military air frame; Dismounted soldier; Tactical ground weaponry; Avionic (FLIR) systems

The “Mighty Mouse” features #23 contacts to accept #22 to #28 wire. Contact spacing is .076.” for #23 contact layouts. Size #12, #16 and #20 layouts are also available for higher current requirements and for coaxial contact accommodation. Even with its smaller package and reduced-size arrangements, the Series 80 “Mighty Mouse” maintains the same approximate electrical and mechanical performance as larger and heavier Military Standard environmental connectors.

SERIES 802**SERIES 803****SERIES 804****SERIES 805**

"Aqua Mouse"
3500 PSI

Bayonet

Push-Pull

Triple-Start ACME
Thread

1 to 130

1 to 55

1 to 85

1 to 130

Threaded Coupling with
UN Threads

Push-to-Mate, ¼ Turn to
Lock

Quick-Disconnect

One Full Turn for Full
Mate

1000 Feet Immersion in
Salt Water (mated)

Splashproof only

MIL-STD-810 Method 512
Mated 1 Meter for 1 Hour

MIL-STD-810 Method 512
Mated 1 Meter for 1 Hour

Good

Fair

Very Good

Excellent

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

2000 Cycles

250 Cycles Aluminum
2000 Cycles SST

2000 Cycles

500 Cycles

#12: 23 AMP, 1800 VAC
#16: 13 AMP, 1800 VAC
#23: 5 AMP, 500 VAC

#12: 23 AMP, 1800 VAC
#16: 13 AMP, 1800 VAC
#23: 5 AMP, 500 VAC

#12: 23 AMP, 1800 VAC
#16: 13 AMP, 1800 VAC
#23: 5 AMP, 500 VAC

#12: 23 AMP, 1800 VAC
#16: 13 AMP, 1800 VAC
#23: 5 AMP, 500 VAC

Pipe line inspection
equipment; Well logging;
Amphibious vehicles;
Unmanned submersibles

Soldier system radios;
Autosport diagnostics;
Airborne surveillance;
Communication systems

Helmet breakaway
connector; QDC battery;
Missile applications;
Weapon interconnects

Military air frame; Joint
Strike Fighter; F-16

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