

The Series 80 “Mighty Mouse” Connector is designed for high-reliability commercial and aerospace/defense interconnect applications that require both robust environmental/EMI performance and reduced size and weight. The Series 80 “Mighty Mouse” Connector offers comparable performance to MIL-DTL-38999 Series interconnects with up to 71% weight and 52% size savings for similar contact layouts. The six versions of the product offer a variety of styles and features to suit just about any application.

Series 800



Series 801



Description	Original “Mighty Mouse” with UNF Threads	Double-Start ACME Thread
Notes	A general purpose connector for high-speed Ethernet switches, tactical equipment and instrumentation.	More rugged keys and threads compared to Series 800. Faster mating, slightly larger than Series 800.
Number of Contacts	3 to 37	3 to 85
Coupling	Threaded Coupling with 4 ½ Turns to Full Mate	Threaded Coupling with 1 ½ Turns to Full Mate
Water Immersion	MIL-STD-810 Method 512 1 Meter for 1 Hour	MIL-STD-810 Method 512 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, 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
Proven Performance Applications	Commercial air frame sensors; UAV telemetry; Tactical computers; field radios	Military air frame; Dismounted soldier; Tactical ground weaponry; Avionic (FLIR) systems

Series 80 "Mighty Mouse" Product Selection Guide



Series 802

Series 803

Series 804

Series 805



"Aqua Mouse"
3500 PSI

Bayonet

Push-Pull

Triple-Start ACME
Thread

Rugged stainless steel,
resists chemicals.
For geophysical and
underwater applications.

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.

3 to 85

3 to 85

3 to 85

4 to 85

Threaded Coupling with
UN Threads

Push-to-Mate, ¼ Turn to
Lock

Quick-Disconnect with
Canted Spring

One Full Turn for Full
Mate

1000 Feet Immersion in
Salt Water

Splashproof

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

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

Good

Fair

Very Good

Excellent

37 g's Random Vibration;
300 g's Shock

2000 Cycles

250 Cycles Aluminum
2000 Cycles SST

2000 Cycles

500 Cycles

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

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

Autosport; Military air
frame; Joint Strike Fighter