

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	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 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, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 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

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

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.

1 to 130

1 to 55

1 to 55

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

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

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
#20: 7.5 AMP, 750 VAC
#23: 5 AMP, 500 VAC

#12: 23 AMP, 1800 VAC
#16: 13 AMP, 1800 VAC
#20: 7.5 AMP, 750 VAC
#23: 5 AMP, 500 VAC

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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

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