



Series 80 Mighty Mouse Standard Series Discrete Connector Offerings

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
#20HD: 7.5 Amp, 1000 VAC
#23: 5 Amp, 750 VAC

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Proven Performance Applications

Commercial air frame sensors;
UAV telemetry; Tactical computers; field radios

Military air frame;
Dismounted soldier; Tactical ground weaponry; Avionic (FLIR) systems

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Series 802	Series 803	Series 804	Series 805
			
AquaMouse™ 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	100 Cycles Aluminum 250 Cycles SST	2000 Cycles Aluminum 2000 Cycles SST	500 Cycles
#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC	#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC	#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC	#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 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