



SERIES 80

# Mighty Mouse Connectors and Cables



## Standard Connector Mating Style Guide

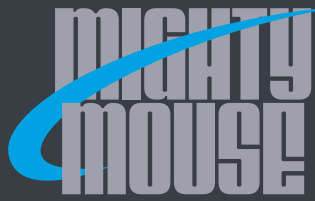
The Series 80 Mighty Mouse Connector is designed for high-reliability commercial and aerospace/defense interconnect applications that require both robust environmental/EMI performance and reduced size and weight. The Series 80 Mighty Mouse Connector offers comparable performance to MIL-DTL-38999 Series 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	UNF Threads	Double-Start ACME Thread
<b>Notes</b>	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
<b>Number of Contacts</b>	1 to 37	1 to 130
<b>Coupling</b>	Threaded Coupling with 4 ½ Turns to Full Mate	Threaded Coupling with 1 ½ Turns to Full Mate
<b>Water Immersion, Mated Condition</b>	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
<b>Vibration and Shock</b>	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
<b>Electrical Performance</b>	#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
<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) systems



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Series 802	Series 803	Series 804	Series 805
			
<p><b>AquaMouse™ 3500 PSI UNEF Thread</b></p>	<p><b>Bayonet Coupling</b></p>	<p><b>Quick-Disconnect Push-Pull</b></p>	<p><b>Triple-Start Stub ACME Thread</b></p>
<p>Rugged stainless steel and Marine Bronze, resists chemicals. For geophysical and underwater applications</p>	<p>Quick-mating, light duty, general purpose. Not rated for immersion. 50 milliohms shell-to-shell resistance</p>	<p>"Push-Pull" connector for headsets and tactical equipment. Gold-plated spring for long mating life and superior EMI shielding</p>	<p>"Clicker" ratchet mechanism and ground spring for military airframes and avionics boxes. Fast-mating, small form-factor D38999 Series III type</p>
<p>1 to 130</p>	<p>1 to 55</p>	<p>1 to 55</p>	<p>1 to 130</p>
<p>Threaded Coupling with UN Threads</p>	<p>Push-to-Mate, ¼ Turn to Lock</p>	<p>Quick-Disconnect</p>	<p>One Full Turn for Full Mate</p>
<p>1000 Feet Immersion in Salt Water</p>	<p>Splashproof</p>	<p>MIL-STD-810 Method 512 1 Meter for 1 Hour</p>	<p>MIL-STD-810 Method 512 1 Meter for 1 Hour</p>
<p>Good</p>	<p>Fair</p>	<p>Very Good</p>	<p>Excellent</p>
<p>37 g's Random Vibration; 300 g's Shock</p>	<p>37 g's Random Vibration; 300 g's Shock</p>	<p>37 g's Random Vibration; 300 g's Shock</p>	<p>37 g's Random Vibration; 300 g's Shock</p>
<p>2000 Cycles</p>	<p>100 Cycles Aluminum 250 Cycles SST</p>	<p>2000 Cycles Aluminum 2000 Cycles SST</p>	<p>500 Cycles</p>
<p>#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC</p>	<p>#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC</p>	<p>#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC</p>	<p>#12: 23 Amp, 1800 VAC #16: 13 Amp, 1800 VAC #20HD: 7.5 Amp, 1000 VAC #23: 5 Amp, 750 VAC</p>
<p>Pipe line inspection equipment; Well logging; Amphibious vehicles; Unmanned submersibles</p>	<p>Soldier system radios; Autosport diagnostics; Airborne surveillance; Communication systems</p>	<p>Helmet breakaway connector; QDC battery; STAR-PAN applications; Weapon interconnects</p>	<p>Military airframe; Joint Strike Fighter; pressurized zone applications; sensor applications</p>

Connector Series Overview