



Series 80 Mighty Mouse Product Selection 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	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
Hermeticity	1 X10 ⁻⁷ cc/second maximum helium leak rate	1 X10 ⁻⁷ cc/second maximum helium leak rate
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 #20: 7.5 AMP, 500 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 500 VAC #16: 13 AMP, 500 VAC #20: 7.5 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

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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

1 X10⁻⁷ cc/second
maximum helium leak
rate

1 X10⁻⁷ cc/second
maximum helium leak
rate

1 X10⁻⁷ cc/second
maximum helium leak
rate

1 X10⁻⁷ cc/second
maximum helium leak
rate

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 Vibra-
tion;
300 g's Shock

2000 Cycles

2000 Cycles SST

2000 Cycles

500 Cycles

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

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#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

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