



## 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

3 to 37

3 to 130

#### 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 130

3 to 55

3 to 85

4 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, 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

#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

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