Series 80 Mighty Mouse

The new industry standard for reduced size and weight applications
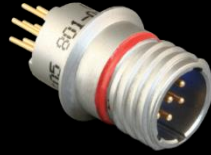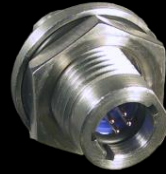
MIGHTY MOUSE

The New Industry Standard for Reduced Size and Weight Applications

Series 800 UN Thread

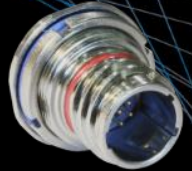**Series 801 Double-Start**

Series 802 AquaMouse

Series 803 Bayonet

Series 804 Quick-disconnect

Series 805 Triple-Start

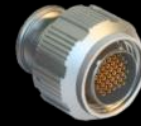**Series 806 Mil-Aero**

Hermetic

EMI/RFI Filter

Fiber Optic

Bulkhead Feed-Thru

High-Speed Ethernet

811 High Density
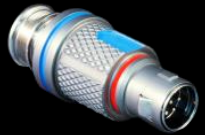
824 Locking Push-Pull

Crimp-Removable Stinger HD

Dual-flange PC Tail

Mighty Mouse to AlphaLink Jumper

Cobra
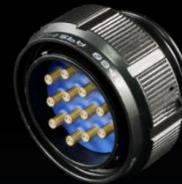
Ultra-Twinax

Size #8 RF Coax

El Ochito 10G Ethernet

Head-to-Head Comparison with D38999

Half the size and weight

- Higher contact density
- Integrated banding platform on connector back end
- Smaller wire gauge
  (as small as #30)
- Weight for 55 pin contact crimp receptacle:
  15g vs 34.6g (D38999/24)
- 67 insert Arrangements Available

"Mighty Mouse" Size Comparison

Series 801
"Mighty Mouse"
7 Contacts

MIL-DTL-38999
6 Contacts

Glenair.

Series 80 Standard Features

Mighty Mouse facts and figures

- .076 inch contact spacing
- 10 shell sizes, 3 to 130 contacts
- Aluminum shells (Optional SS)
- Beryllium copper retention clips
- Integral shield banding porch or accessory threads
- Environmental seals
- #22 through #28 AWG Wire
- Rear-release crimp contacts

Glenair

The industry standard for size and weight reduction in mission-critical electrical / optical interconnect systems

SERIES 80 MIGHTY MOUSE

Constant, relentless innovation

MIGHTY MOUSE

Glenair.

Series 80 Mighty Mouse Plug Cutaway View

Fluorosilicone Grommet

Integral Molding and Shield Attachment

LCP Insulators

Beryllium Copper Pin Contact

"G Load" Anti-Decoupling Spring

Beryllium Copper Retention Clip

Fluorosilicone Interfacial Seal
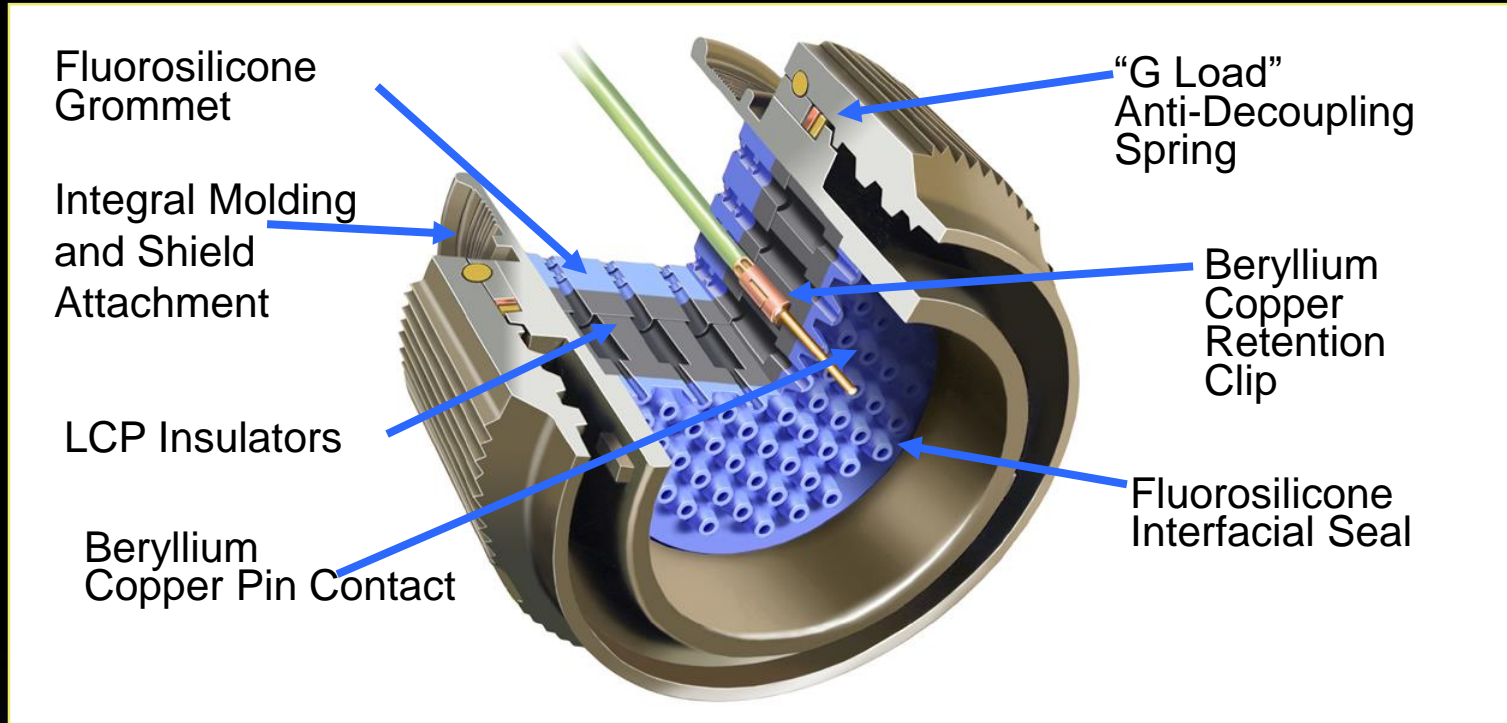
Series 80 Mighty Mouse Receptacle Cutaway View

Integral Shield Attachment Platform

"Fluorosilicone O-Ring

M39029 Type Split-Tine BeCu Socket Contact with Stainless Steel Hood

Red Full-Mate Indicator Stripe

Four-Indent Mil-Spec Crimp

Peripheral Seal

Closed Entry Insulator

Glenair.
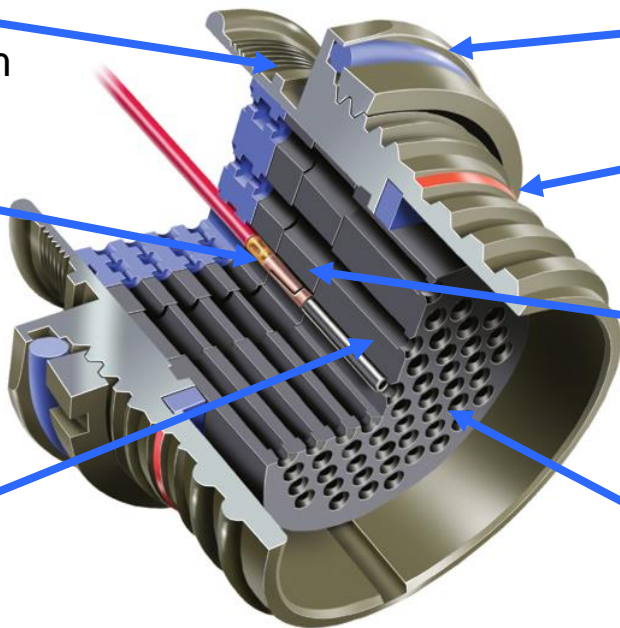
Series 80 Mighty Mouse Contacts and Layouts

- 12 Shell Sizes
- 67 Insert Arrangements
- From 1 to 130 contacts
- Layouts with #23, #20, #20HD, #16, #12, #8 Cavities
- Signal, Quadrax, Twinax, Coax, Pitot, Pure Gas, Fiber Optic, and Power Contacts
- Stinger

Glenair

MIGHTY MOUSE

Series 800 UNF Thread Mighty Mouse

The smallest and lightest Mighty Mouse

- UNF Threaded

- Ideal for test equipment, instrumentation and sensors

- Plugs, crimp receptacles, PCB receptacles, hermetic receptacles, protective covers and cordsets

Glenair

Series 801 Double-Start ACME Mighty Mouse

Ideally suited for environmental, military applications where legacy MS connectors are too large and too heavy

- Heavy-duty ACME threads for fast mating
- Robust keys
- Best availability at present time
- Standard packaging: in-line, square flange, jam nut, PCB and hermetic designs
- EMI/EMP filter options

Series 811 Mighty Mouse High Density

High-density ultraminiature connectors

- Micro TwistPin contact system
- 600VAC DWV rating
- 7 to 42 contacts
- 3 Amp current rating
- Water resistant to 1m

Glenair.

Series 802 "Aqua Mouse" Submersible Mighty Mouse

3500 PSI submersible connector

- Environmentally Sealed: ideal for 3500 PSI submersible applications
- Threaded UNF Nickel-Aluminum-Bronze coupling connector system
- Viton seals and O-rings
- Stainless steel shells
- Ruggedized packaging

Glenair

SHALLOW WATER

Series 803 Bayonet Lock Mighty Mouse

Rugged design and ultraminiature profile

- ¼ turn locking
- Ideal for hand-held radios, sensors, test equipment, autosport and other quick-disconnect applications

Glenair®

Series 804 Breakaway Mighty Mouse

Push-pull quick disconnect

- Ideal for helmets, headsets and other breakaway applications

- Calibrated snap-in mating

- Controlled force in receptacle housing

- Receptacle O-ring provides environmental protection

- EMI/EMP Filter Options

New Series 824 Mighty Mouse Locking Quick Disconnect

Specifications	
Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C to +150° C
Shock / Vibration	100 g / 16 g
Shell-to-Shell Resistance, Nickel Plated	2 milliohms maximum
Durability	2000 mating cycles
Breakaway Force	60 pounds minimum

Series 805 Triple Start Mighty Mouse

Ultra fast mating; meets or exceeds D38999 series III requirements

- Featuring 1 turn to full mate

- Detent clicker mechanism in the plug

- Integral band platform or accessory threads

- EMI/EMP Filter Options

Glenair

Series 806 Upgraded Environmental, Electrical, and Mechanical Performance

- Integrated anti-decoupling technology
- High-density 20HD and 22HD
- Durable mechanical insert retention
- Radial seals
- Triple-ripple grommet seals
- 200 C temp rating

Series 806 Mil-Aero Fiber Optics

High data rate, reduced size and weight

- Signature size #20HD fiber optic termini

- Available in hybrid arrangements
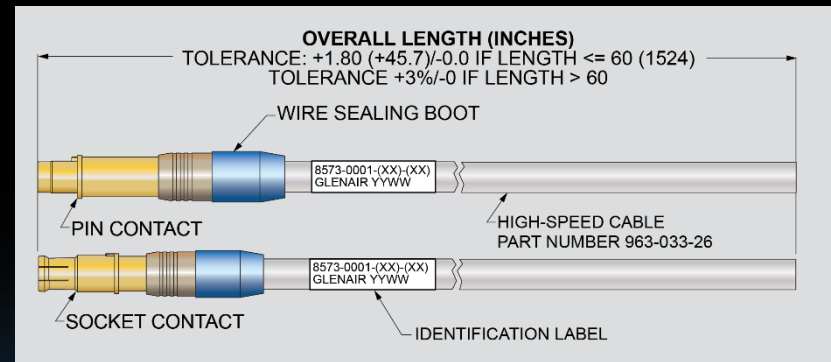
- Same performance as larger #16 D38999 termini

Series 806
#20HD Termini

D38999
#16 Termini

High-Speed Datalink Solutions for Series 806

El Ochito octaxial for 10GbE, USB 3.0, HDMI, and other video formats

El Ochito®

OVERALL LENGTH (INCHES)
TOLERANCE: +1.80 (+45.7)/-0.0 IF LENGTH <= 60 (1524)
TOLERANCE +3%/-0 IF LENGTH > 60

WIRE SEALING BOOT

8572-0002-(XX)-(XX)
GLENAIR YYWW

PIN CONTACT
IDENTIFICATION LABEL
SOCKET CONTACT

OVERALL LENGTH (INCHES)
TOLERANCE: +1.80 (+45.7)/-0.0 IF LENGTH <= 60 (1524)
TOLERANCE +3%/-0 IF LENGTH > 60

WIRE SEALING BOOT

8573-0001-(XX)-(XX)
GLENAIR YYWW

PIN CONTACT
HIGH-SPEED CABLE PART NUMBER 963-033-26

8573-0001-(XX)-(XX)
GLENAIR YYWW

SOCKET CONTACT
IDENTIFICATION LABEL

Glenair®

Series 80 Mighty Mouse Cabling Capability

Meeting rigorous application requirements

- Polyurethane Jacketing (LSZH)
  -30°C to + 105°C

- Rubber Jacketing (Thermoplastic Elastomer)
  -55°C to + 135°C

- Nomex® -55°C to + 260°C

- Halar® -73°C to + 150°C

- Duralectric™ Jacketing -65°C to 225°C

- Custom Overmolds

- Custom bulk anything from shielded twisted
  pairs, Coax , 50 ohm , 75 ohm , 100 ohm ,
  mixed/color wire gages etc.

Glenair®

Series 80 Mighty Mouse Interconnect Cable Assemblies
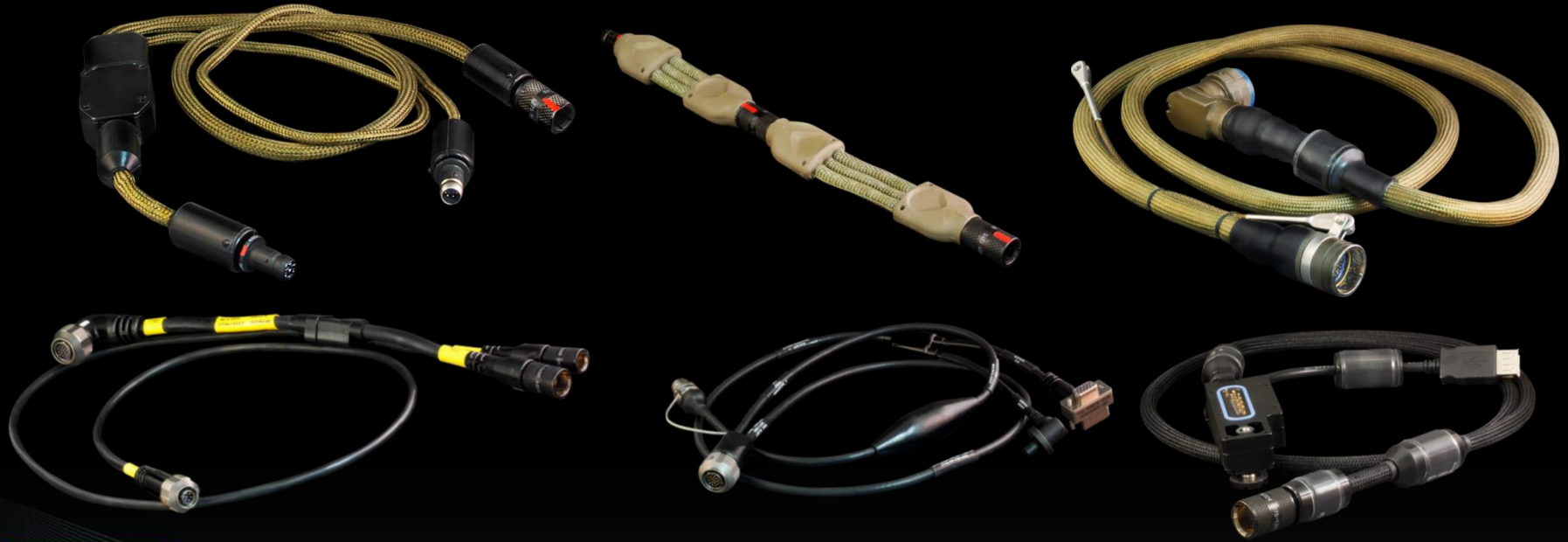
Series 80 Mighty Mouse AlphaLink Jumpers

Easy, fast ordering of flex-to-board termination solutions

- Mighty Mouse-to-board flex jumpers
- Catalog designs incorporating Mighty Mouse I/O connectors and solderless spring-contact AlphaLink circuit board connectors

SuperSeal Mighty Mouse RJ-45 and USB

- IP67 sealing in unmated condition
- Superior grounding
- USB back-to-back, crimp contact, PC tail and solder cup terminations available
- USB Micro A, B and AB versions

Series 80 Mighty Mouse USB Solutions

Series 801 double-start threaded

Series 805 triple-start

Series 804 quick-disconnect

RJ45/USB SUPER SEAL™

Mighty Mouse SuperSeal™ - Micro USB

- Mated IP68 Sealing

- MicroAB and MicroB Interface

- Feedthru or crimp removable contacts

Mighty Mouse SuperSeal™ - USB Type A

- Mated IP68 Sealing
- Enhanced operating temperature
- Rugged shock and vibration performance

Series 807 Mighty Mouse NW

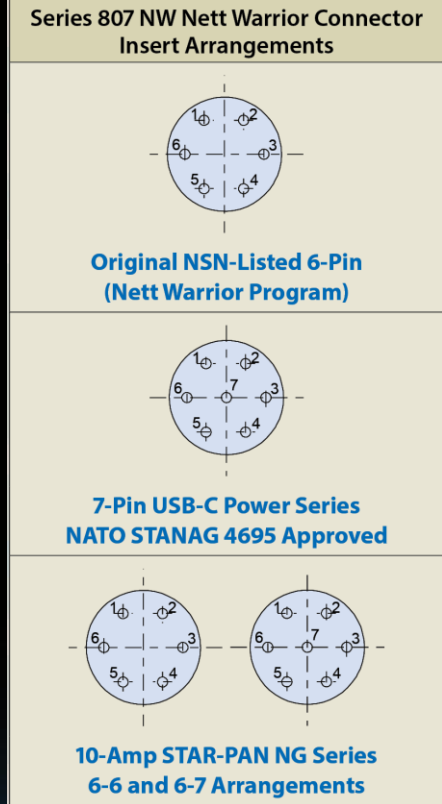## *The* Nett Warrior Connector

- Originally battle-tested and qualified in Land Warrior program

- Qualified and NSN stock-listed for Nett Warrior

- Adopted as NATO STANAG 4695 standard

Evolution of Series 807 Mighty Mouse NW

**From early adoption in US and NATO soldier systems to worldwide industry standard**

- Original 6-pin Nett Warrior plugs and receptacles
- Backward-compatible 7-pin series with USB-C power integration and delivery
- New 10 Amp 6 and 7 pin receptacles for higher-current soldier battery, radio, and PAN C4ISR equipment

Series 807 NW Nett Warrior Connector Insert Arrangements

Original NSN-Listed 6-Pin (Nett Warrior Program)

7-Pin USB-C Power Series NATO STANAG 4695 Approved

10-Amp STAR-PAN NG Series 6-6 and 6-7 Arrangements

JTAC–TOUGH
807 NW
QUALIFIED

Glenair.

Series 86 Mighty Mouse SealTac™

Miniature push-pull connectors

- Pressure-sealed tactical soldier connectors and cables with maintenance-free spring-loaded contacts

- Tested to thousands of mating cycles

- 30 PSI open-face / IP68-level sealing (box side)

- Supplied as discrete connectors with solder cup, PCB, and wire termination

- Turnkey point-to-point jumpers

Glenair.
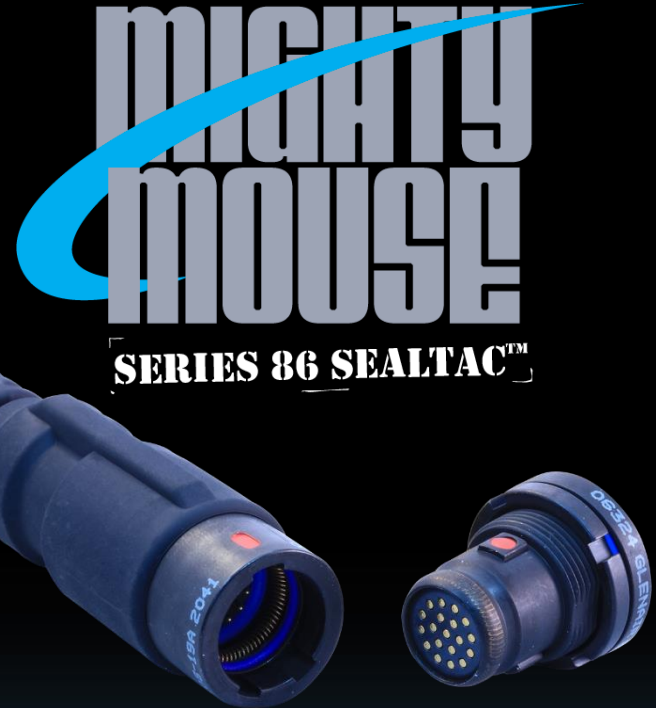
Series 86 Mighty Mouse SealTac™

Optimized SWaP with tactical soldier ergonomics

- High-density micro miniature form factor
- High-durability unlimited life-cycle performance
- Ergonomic, keyed push-pull mating
- Maintenance-free spring contact inserts
- Integrated EMI/RFI ground spring and shield termination band porch
- Aluminum and stainless steel shells
- High-vibration and shock resistant
- Full qualification testing complete and available

Mighty Mouse
Applications / Markets

- Military Communication Systems
- Aviation Command & Control Systems
- Stores Management Systems
- Soldier Systems
- Fuel Cell Batteries
- UAVs
- Unmanned Ground Vehicles

Mighty Mouse

MISSION-CRITICAL
INTERCONNECT
SOLUTIONS

Glenair

Glenair
SIGNATURE SERIES

Series 80 Mighty Mouse

The new industry standard for reduced size and weight applications