The widest range of
mission-critical interconnect
technologies in the world

Series 80 Mighty Mouse
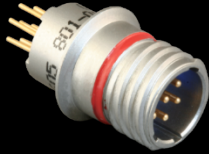The New Industry Standard for Reduced Size and Weight Applications

MIGHTY MOUSE

The New Industry Standard for Reduced Size and Weight Applications
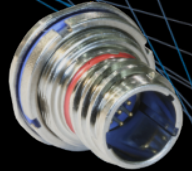
Series 800 UN Thread

Series 801 Double-Start

Series 802 AquaMouse

Series 803 Bayonet

Series 804 Quick-disconnect

Series 805 Triple-Start
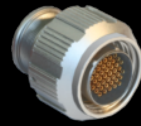
Series 806 Mil-Aero

Hermetic

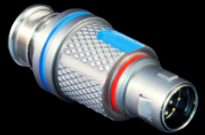*EMI/RFI Filter*

Fiber Optic

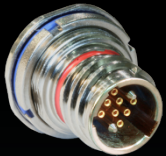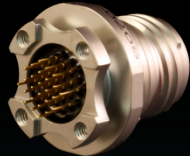*Bulkhead Feed-Thru*

High-Speed Ethernet

811 High Density

824 Locking Push-Pull

Crimp-Removable Stinger HD

Dual-flange PC Tail

Mighty Mouse to AlphaLink Jumper

Cobra
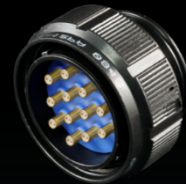
Ultra-Twinax

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

Series 80 Mighty Mouse Plug Cutaway View
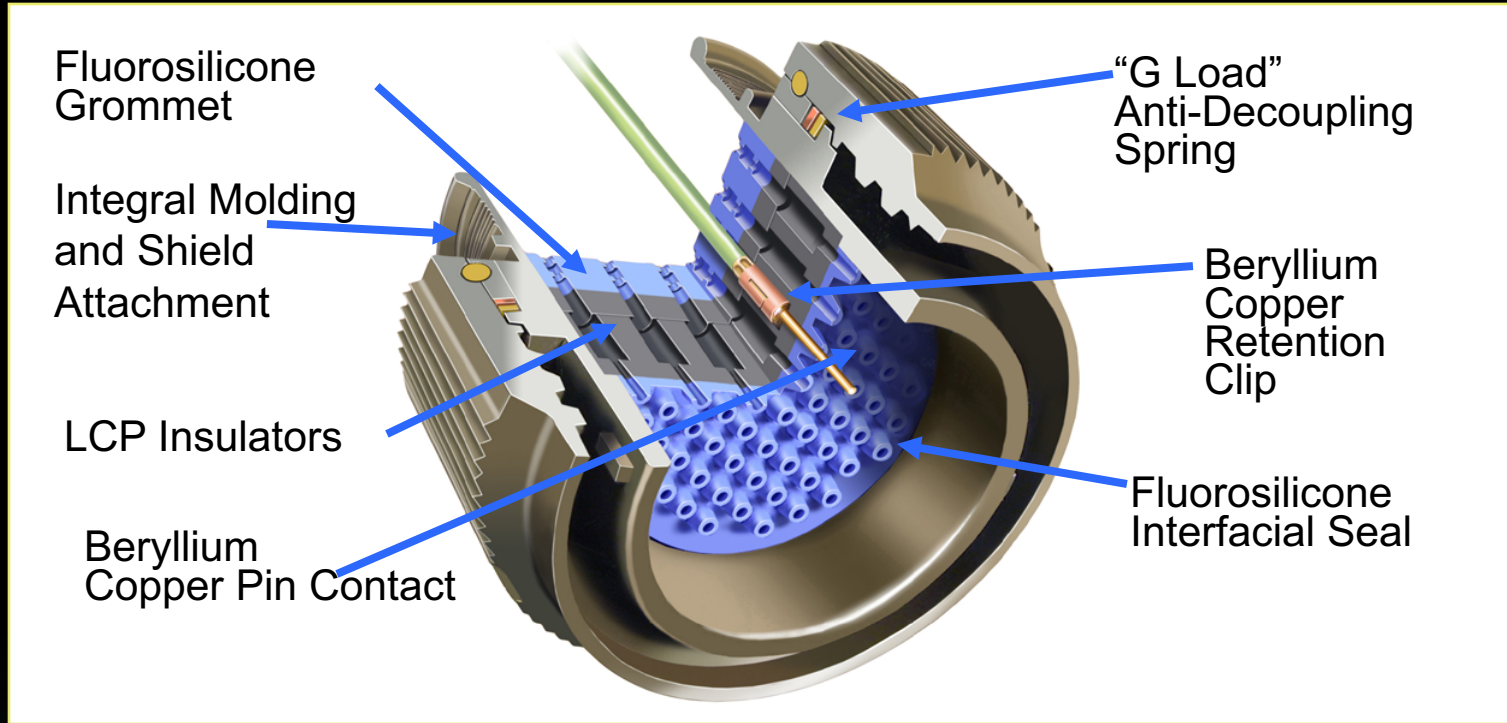
Series 80 Mighty Mouse Receptacle Cutaway View

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

Series 80 Mighty Mouse Contacts and Layouts

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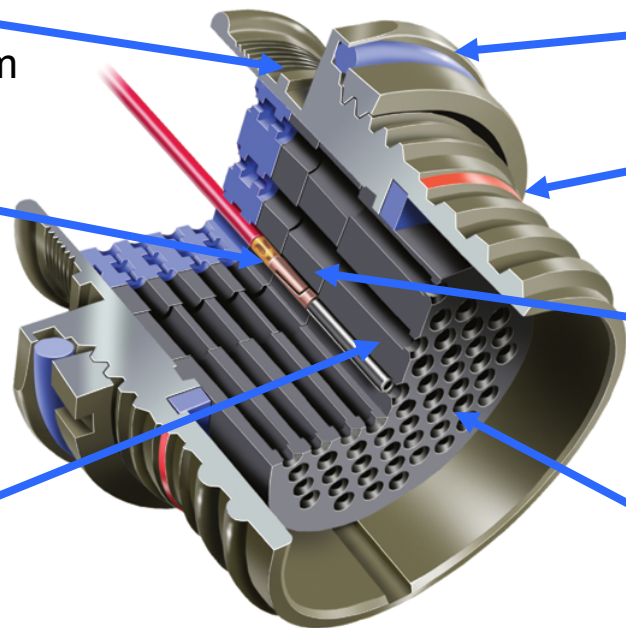- From 1 to 130 contacts
- Layouts with #23, #20, #20HD, #16, #12, #8 Cavities
- Signal, Quadrax, Twinax, Coax, Pitot, Pure Gas, Fiber Optic, and Power Contacts
- Stinger

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

Glenair.

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.
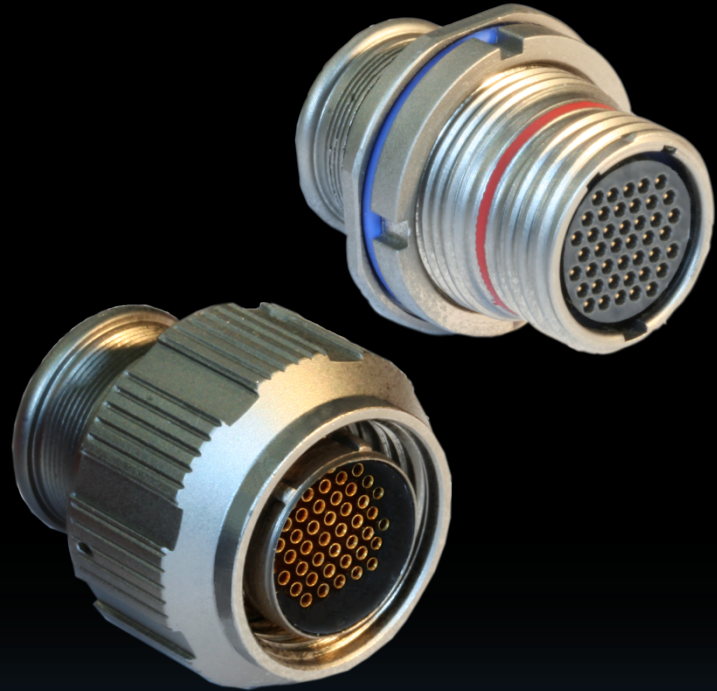
Series 811 Mighty Mouse High Density
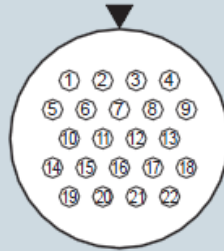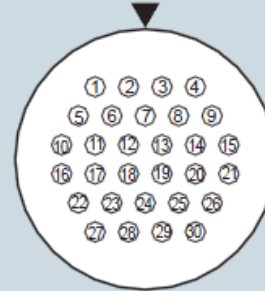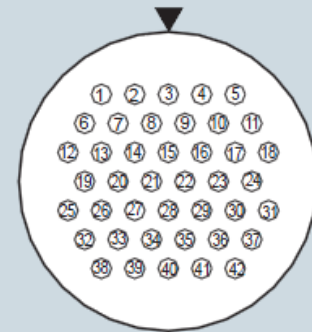
Series 802 "Aqua Mouse" Submersible Mighty Mouse

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

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

Glenair.

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
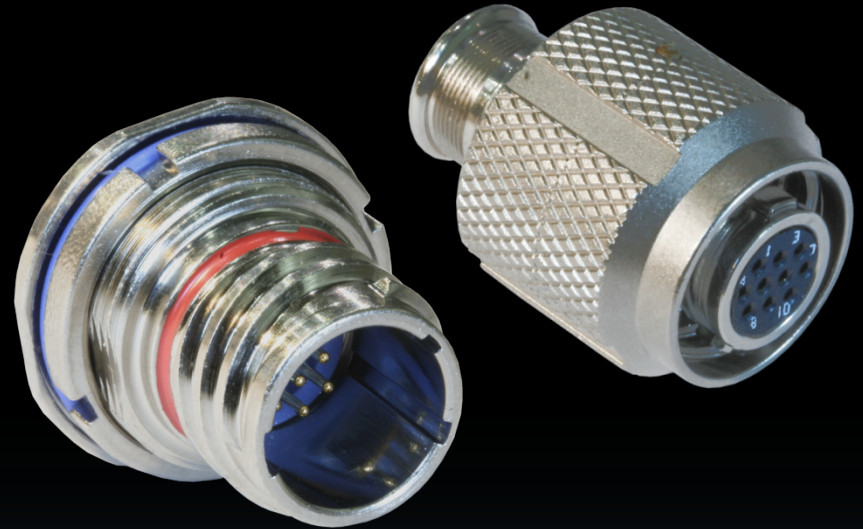
Series 806 Upgraded Environmental, Electrical, and Mechanical Performance

- 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 Mighty Mouse Mil-Aero: Significant Size and Weight Benefit

Series 806
Shell Size 8
.500" Mating
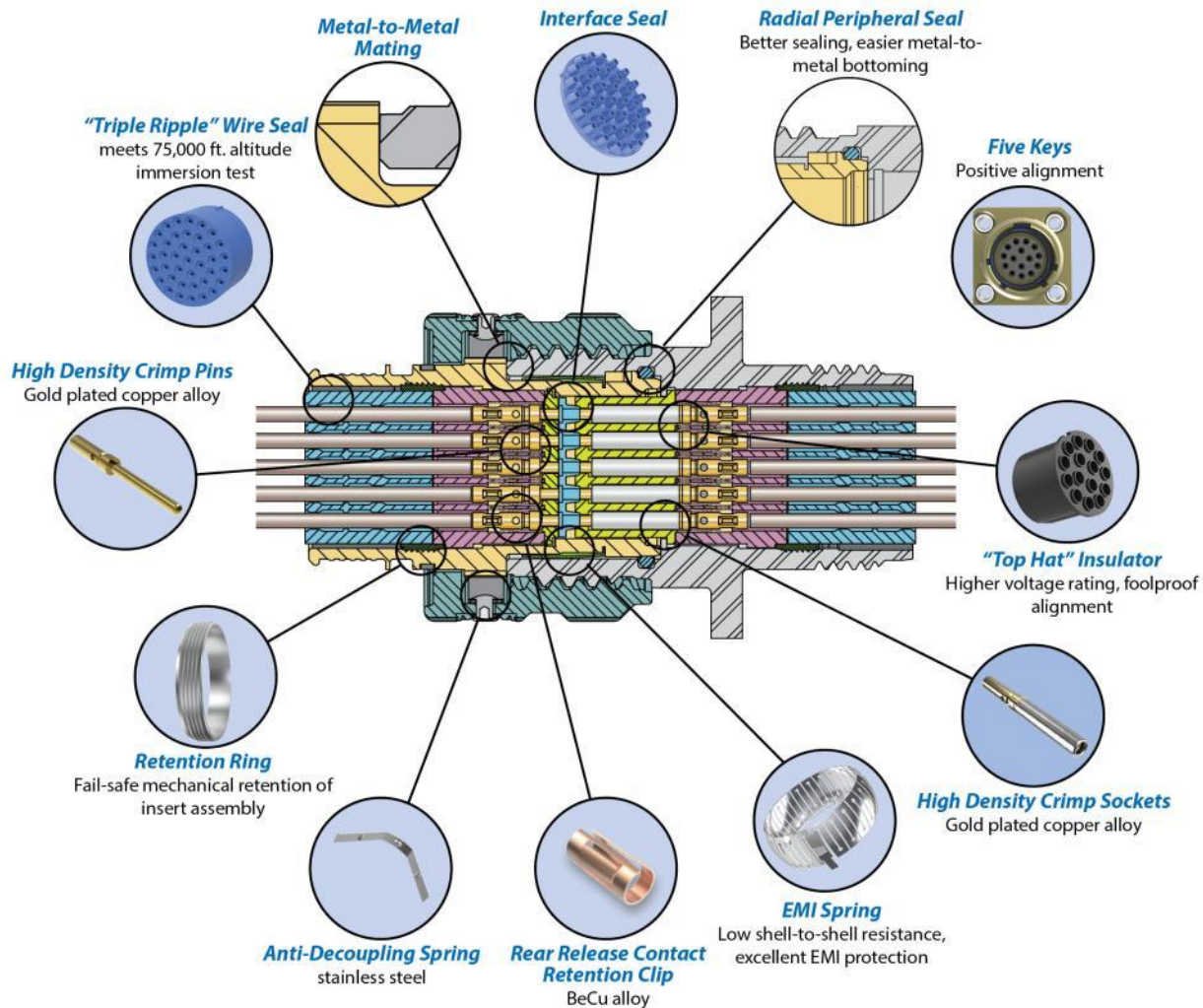Thread

D38999/24
Shell Size 9
.625" Mating
Thread

Glenair®

Series 806 Size Comparison Example
CANBus, DC, and GND. #20 AWG, 5 wires

	Series 806	38999 Series III	% Size Reduction
Contact Arrangement	9-5	11-5	
No. of Contacts	5	5	
Contact Size	#20HD	#20	
Mating Thread size	0.563	0.75	24.9%
Plug Coupling Nut OD	0.761	0.984	22.7%
Plug Overall Length	0.967	1.22	20.7%
Square Flange Receptacle Size	0.875	1.031	15.1%
Square Flange Receptacle Length	1.167	1.24	5.9%

Series 806 Mighty Mouse Mil-Aero

Metal-to-Metal Mating

Interface Seal

Radial Peripheral Seal
Better sealing, easier metal-to-metal bottoming

"Triple Ripple" Wire Seal
meets 75,000 ft. altitude immersion test

Five Keys
Positive alignment

High Density Crimp Pins
Gold plated copper alloy

"Top Hat" Insulator
Higher voltage rating, foolproof alignment

Retention Ring
Fail-safe mechanical retention of insert assembly

Anti-Decoupling Spring
stainless steel

Rear Release Contact Retention Clip
BeCu alloy

EMI Spring
Low shell-to-shell resistance, excellent EMI protection

High Density Crimp Sockets
Gold plated copper alloy

MIGHTY MOUSE

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 with Fiber Optics

- High bandwidth
- Ultra miniature Packaging
- #16, #20HD and #23
- Singlemode and multimode available

Series 80 Mighty Mouse *High-Speed*

With DuPont™ Teflon® insulators

- DuPont™ Teflon® insulators for superior electrical performance in protocol-specific applications like eSATA and USB 2.0/3.0.

- Ultra-Twinax connectors utilizing size #12 Twinax contacts for differential pair applications such as LVDS and CML.

- Size #8 Quadrax and differential Twinax technologies for high-speed 100BASE-T Ethernet applications

Glenair.

Series 80 Mighty Mouse *High-Speed*

With DuPont™ Teflon® insulators

- Superior electrical performance in protocol-specific applications like eSATA and USB 2.0/3.0
- Series 801, 804 and 805 mating styles available

High Speed Performance	
Impedance	100 OHMS ±7 OHMS at 100-Picosecond
VSWR	<1.4 up to 4-GHz

Insertion Loss	
1 GHz	.51 dB
2 GHz	.53 dB
3 GHz	.57 dB
4 GHz	1.2 dB
5 GHz	1.25 dB

Glenair®

Series 80 Mighty Mouse *High-Speed*

Size #12 Ultra-Twinax

- The industry's smallest ruggedized impedance-matched Twinax connector
- Suited for multigigabit data rate applications such as CML, LVDS and other advanced digital communications protocols
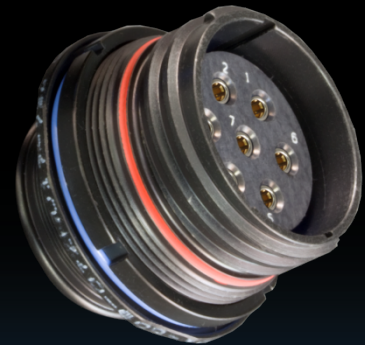
Series 80 Mighty Mouse *High-Speed*

Size #8 Quadrax and Differential Twinax

- Contact arrangements accept size #8 Quadrax and Twinax contacts for Ethernet or high frequency applications

Glenair.

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
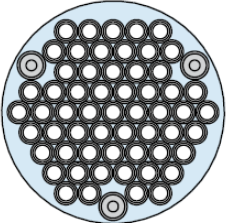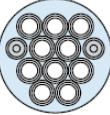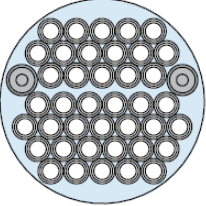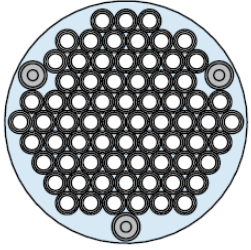
Glenair.
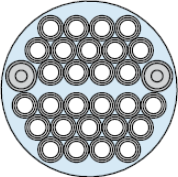
Series 841 Mighty Mouse with Stinger Contacts

High-density front release crimp contact

- High-density .050" centers
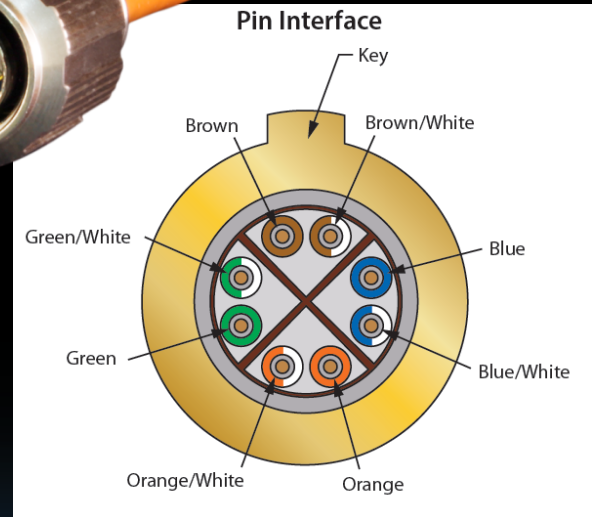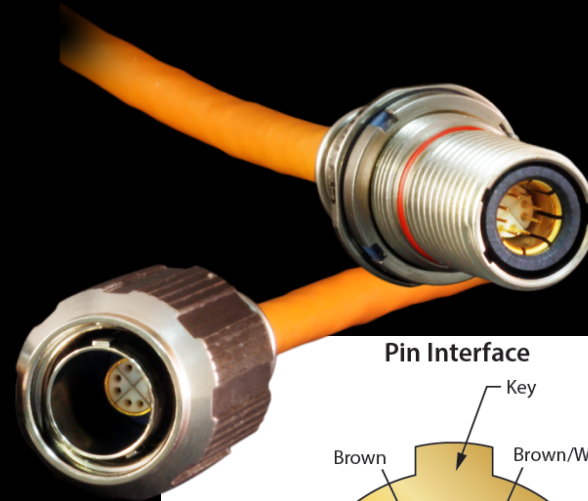- Front-release sealed crimp contacts
- Low mating force

Plug Cross-Section (841 shown)

STINGER INSERT (PIN)
STINGER PIN CONTACT
PRECISION GUIDE PIN HOLE
CAVITY SEALING O-RING
CONTACT RETAINER

Receptacle Cross-Section (841 shown)

PRECISION GUIDE PIN
STINGER SOCKET CONTACT
STINGER INSERT (SOCKET)
INTERFACIAL SEAL
CONTACT RETAINER
CAVITY SEALING O-RING

Glenair.
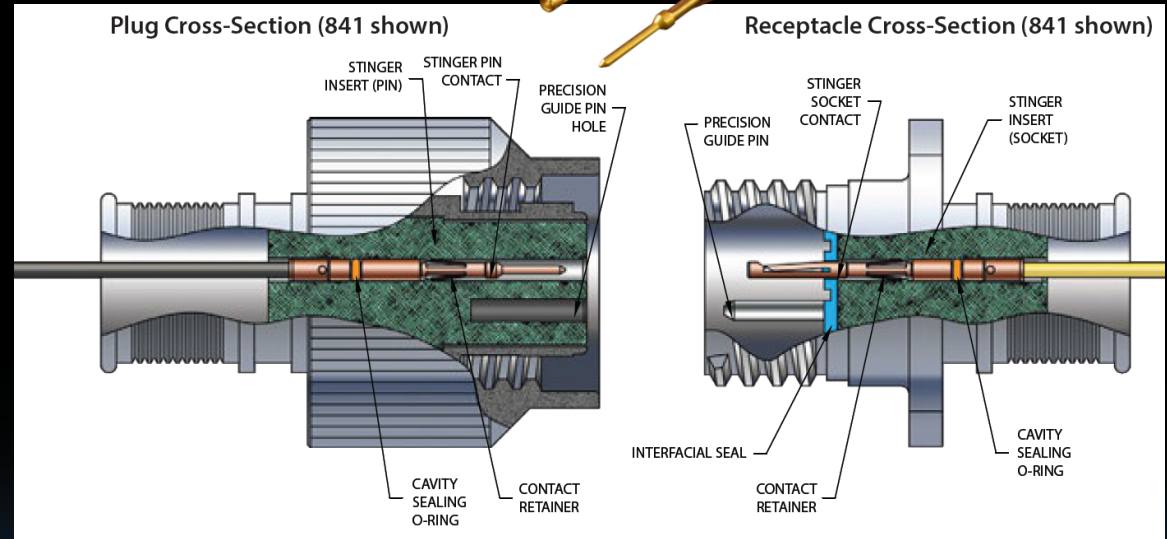
Series 841 Mighty Mouse Stinger Inserts

El Ochito Octaxial Mighty Mouse

- One full 10G Ethernet channel per size #8
- 100% drop-in solution
- Highest density contact system available

Pin Interface

Key

Brown / Brown/White

Green/White / Blue

Green / Blue/White

Orange/White / Orange

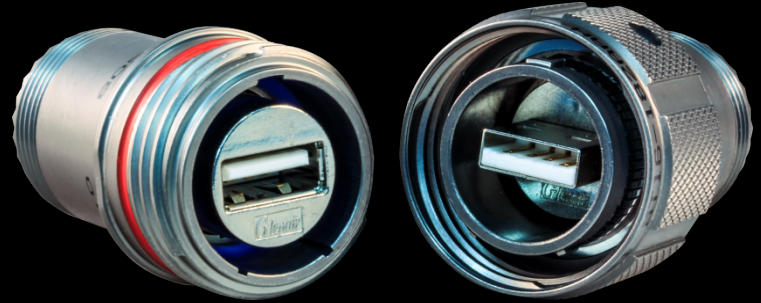*Glenair.*

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

RJ45/USB
SUPER SEAL™

Glenair.

Series 80 Mighty Mouse USB Solutions

Series 801 double-start threaded

Series 805 triple-start

Series 804 quick-disconnect

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
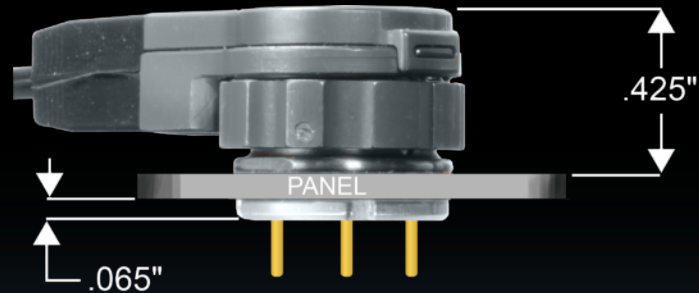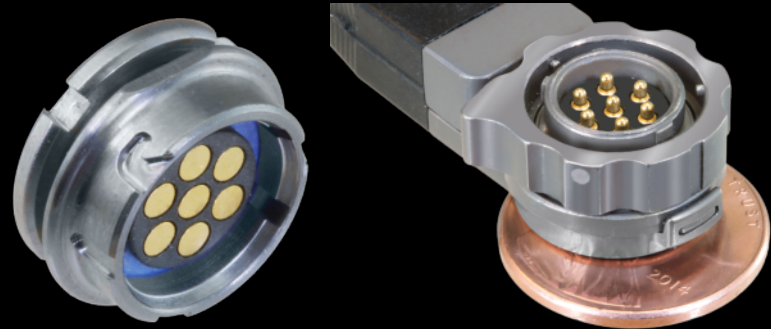- Rugged shock and vibration performance

Series 860 Mouse-Bud™

Vest-wearable or cable-to-cable tactical pogo pin Mighty Mouse

- IP67, spring contact interface

- 5 Amps

- 2500 mating cycles

- Cobra style plug for optimum EMI

- PC tail or solder cup receptacle

- In-line, square flange in process

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The widest range of
mission-critical interconnect
technologies in the world

Series 80 Mighty Mouse
The New Industry Standard for Reduced Size and Weight Applications