Glenair®

# Series 80 Mighty Mouse Connectors & Cables

*The Shielded Environmental Connector wi*
*Mil-Spec Performance and Ultraminiature*

United States ▪ United Kingdom ▪ Germany ▪ France ▪ Nordic

✓ In Stock!

- 43 Insert Arrangements
- Six Shell Styles
- From One to 130 Crimp/PCB Contacts
- Point-to-Point Cordsets

SERIES 80

# MIGHTY MOUSE

- **Up To 71% Weight Savings and 52% Size Savings Compared to MIL-DTL-38999**
- **The World's Best Availability—Thousands of Part Numbers In Stock and Ready for Immediate Same-Day Shipment**

Series 801
Mighty Mouse
7 Contacts

MIL-DTL-38999
6 Contacts

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Glenair®

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# SERIES 80 Mighty Mouse AT A GLANCE

*UAV's save weight and space with Glenair Mighty Mouse connectors*

The Series 80 Mighty Mouse Connector is designed for high-reliability aerospace/defense interconnect applications requiring robust environmental performance and reduced size and weight. The Series 80 Mighty Mouse Connector offers virtually equal performance to MIL-DTL-38999 interconnects with up to 71% weight and 52% size savings for similar contact layouts.

The Series 80 Connector was originally developed as a smaller and lighter alternative to D38999 connectors for aerospace applications such as Attack Helicopters and Unmanned Aerial Vehicles. Today, the Series 80 Mighty Mouse serves in dozens of safety-critical defense, medical, industrial and geo-physical applications.

The Series 80 Mighty Mouse Connector is supplied in six standard designs:

- ***Series 800 Light Duty UN Thread***
- ***Series 801 Heavy Duty Double-Start***
- ***Series 802 "Aqua Mouse" Harsh Environmental***
- ***Series 803 Bayonet***
- ***Series 804 Quick-Disconnect***
- ***Series 805 Triple-Start***

All the connectors in the Series 80 family are available with rear-release crimp contacts or with PC tail or solder cup terminations. Shell styles, including in-line plugs, square-flange and jam-nut receptacles are available for all types. Integrated banding platforms for EMI shield termination or rear-end threads for backshell accessories are also standard throughout the line.

The Mighty Mouse features #23 contacts to accept #22 to #28 wire. Contact spacing is .076." Size #12, #16 and #20 layouts are now available for higher current requirements and for coaxial contact accommodation. The smaller and lighter Mighty Mouse maintains the same approximate electrical and mechanical performance of larger and heavier Military Standard environmental connectors. Insert arrangements are available for as few as 1 and as many as 130 contacts. The products presented in this

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catalog, including cable sets and backshells, are available with accelerated lead-times—many are packaged for immediate same-day shipment. Custom layouts, such as might be required to accommodate a different gage or type of contact, may be readily incorporated into existing shell and coupling designs.

## Born in the U.S.A.

Series 80 Mighty Mouse Connectors are manufactured at Glenair's Air Way factory in Glendale, California. The plant occupies approximately 450,000 square feet. Glenair's connector manufacturing facility is vertically integrated. All connector fabrication, including precision machining, hermetic firing, component assembly, contact termination, potting and electrical testing are completed at the factory.

For custom connector applications, we operate a dedicated prototype development shop complete with CNC machining and EDM equipment. In addition, a wide range of electrical, mechanical and environmental tests are completed in-house including dielectric withstanding voltage, contact resistance, contact engagement and separation, mating cycles, pressure testing and outgassing. Glenair is well versed in connector design and development, and has been producing and qualifying military-standard type connectors for over 35 years. Our Microway facility in Chicago, a 35,000 sq. ft. plant, contributes additional design and tooling resources to the Series 80 Mighty Mouse. Our UK Factory in Mansfield, England participates in performance testing of the product and in the assembly of bespoke cable assemblies for the UK and other EU customers.

Glenair is well known in the interconnect industry as the world's largest manufacturer of military standard and commercial connector accessories (backshells, dust-caps, EMI shield termination devices and so on). We are also the world's largest supplier of MIL-DTL-83513 Micro-D Connectors and M24758 Conduit Systems and Fittings. We also produce hermetic connectors qualified to MIL-DTL-38999 and MIL-DTL-24308, MIL-C-28840 Shipboard Connectors, MIL-DTL-38999 Fiber Optic Connectors and MIL-T-29504 Termini. Our Commercial-Off-the-Shelf connector products include our Harsh Environmental Series 22 Geo-Marine® Connectors, Sav-Con® Connector Savers, hermetic D-Subminiature products and hundreds of special purpose or custom interconnects for high-performance applications.

***The Series 801 Connector offers up to 71% weight savings and 52% size reduction when compared to D38999 Series III Connectors.***

## Mil-Qualified Weight Savings

Glenair has qualified thousands of weight saving connectors, backshells, fiber optic components, conduit assemblies and junction-box enclosures to existing and new Mil-Specs. For the Series 80 Mighty Mouse Connector however, we followed the D38999 specification as a guideline for benchmarking performance standards, but took a radically different approach from the Mil-Spec when designing the physical envelope of the product. To appreciate the results, please see the weight and dimension tables that are provided for each individual connector type in this catalog. Note the extraordinary delta between Mighty Mouse and MIL-DTL-38999.


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# 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 |
| **Water Immersion, Mated** | 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, 1800 VAC<br>#16: 13 AMP, 1800 VAC<br>#20: 7.5 AMP, 750 VAC<br>#23: 5 AMP, 500 VAC | #12: 23 AMP, 1800 VAC<br>#16: 13 AMP, 1800 VAC<br>#20: 7.5 AMP, 750 VAC<br>#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 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. |
| 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 |
| 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<br>2000 Cycles SST | 2000 Cycles | 500 Cycles |
| #12: 23 AMP, 1800 VAC<br>#16: 13 AMP, 1800 VAC<br>#20: 7.5 AMP, 750 VAC<br>#23: 5 AMP, 500 VAC | #12: 23 AMP, 1800 VAC<br>#16: 13 AMP, 1800 VAC<br>#20: 7.5 AMP, 750 VAC<br>#23: 5 AMP, 500 VAC | #12: 23 AMP, 1800 VAC<br>#16: 13 AMP, 1800 VAC<br>#20: 7.5 AMP, 750 VAC<br>#23: 5 AMP, 500 VAC | #12: 23 AMP, 1800 VAC<br>#16: 13 AMP, 1800 VAC<br>#20: 7.5 AMP, 750 VAC<br>#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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# Featured Products

### Filtered Mighty Mouse

Glenair's filtered Mighty Mouse connectors provide significant size and weight savings compared to larger mil-spec connectors. Designed to meet stringent aerospace performance requirements, Mighty Mouse filtered connectors are offered with standard filter arrays or with customized filters to meet your specific needs.

### Right Angle Board Mount Connectors

Now available with 3, 4, 7, 10, 13 and 19 contacts, these connectors offer military grade performance in a small, economical package. These connectors are rated for MIL-STD-810 Method 512 immersion. ***Available in Series 800 and Series 801.***

### Meet the "Clicker"

Series 801 plugs are now available with a ratcheting mechanism. The ratcheting coupling nut prevents unintended de-mating when subjected to high levels of shock and vibration. The coupling nut is .100" larger than the standard self-locking nut. The Series 801 double-start Mighty Mouse connector is widely used on battlefield computers and weapons systems.

***Series 801 Plug with Ratchet Mechanism***

### New Power and Coaxial Layouts

43 contact layouts are now available, including new size #12, #16 and #20HD contact arrangements. Also available with printed circuit board contacts.

***Series 801 "9-4" layout with 4 #16 contacts compared to MIL-DTL-38999 "13-4" layout with 4 #16 contacts***

***Glenair's "21-12" insert arrangement with 12 size 12 power pins for 23 amp current rating.***

***New "17-7" insert arrangement with 7 size 12 contacts***

***Size 12 and size 16 PC tails are standard***

### Pneumatic Contacts

These stainless steel contacts snap into size 12 contact cavities. Rated at 100 psi, these "gas" contacts are ideal for pitot tube connections in unmanned aerial vehicles.

***Pneumatic contacts for Mighty Mouse connectors***

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# Featured Products

### Need More Contacts?

Joining the Mighty Mouse lineup is a 130 pin connector. Available in Series 801, 802 and 805, this layout has 130 size #23 contacts in a low-profile, lightweight package.

### Series 80 Cordsets for High-Speed Data

Now available with RJ-45 plugs and USB 2.0 connectors, Glenair's *ASAP* Mighty Mouse overmolded cordsets offer watertight sealing and excellent cold temperature flexibility. New features include expanded wire size choices, right angle overmolding, and low smoke, zero halogen jacketing for installation where combustion toxicity is a concern.

### Heat Shrink Boots

Glenair has selected straight and right angle boots to fit Series 80 connectors. Available in Mil-Spec and low smoke/zero halogen materials, these boots are adhesive lined.

### New Rubber Covers

Rubber covers are now available for Series 801 and Series 804 connectors. These fungus-resistant neoprene covers are preferred for man-portable soldier equipment.

### Can't Find What You Need in this Catalog?

Get the part you need with no strings attached. Glenair welcomes your custom connector requirements. Our vertically integrated manufacturing guarantees fast delivery with no minimum order quantity.

### Spring-Loaded Protective Covers

Glenair now offers a spring-loaded cover for Series 804 quick-disconnect receptacles. Made of aluminum alloy, the cover has a rubber gasket for a watertight seal when unmated.

### Optical Fiber Mighty Mouse

Get the best of both worlds: the small size of the Series 80 combined with Mil-Spec optical fiber performance. This 4 channel connector is ideal for 1000BASE-LX. Contact Glenair for more information.

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# Series 80 Mighty Mouse
# Cutaway View of Series 801

## Plug

## Jam Nut Receptacle

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# Series 80 Mighty Mouse Contact Arrangements



| Series 80 Mighty Mouse Contact Arrangements | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Contact Size | | Contact Quantity | | | | | | Contact Arrangement* | | | | | |
| | | #23 | #20 | #20HD | #16 | #12 | #8 | Series 800 | Series 801 | Series 802 | Series 803 | Series 804 | Series 805 |
| Size #23 Contacts<br>5 Amp Max. Current<br>#22-#28 AWG<br>**750 VAC DWV** | | 3 | | | | | | 5-3 | 5-3 | 5-3 | 5-3 | 5-3 | N/A |
| | | 4 | | | | | | 6-4 | 6-4 | 6-4 | 6-4 | 6-4 | 8-4 |
| | | 6 | | | | | | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 8-6 |
| | | 7 | | | | | | 6-7 | 6-7 | 6-7 | 6-7 | 6-7 | 8-7 |
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| | | 13 | | | | | | 8-13 | 8-13 | 8-13 | 8-13 | 8-13 | 10-13 |
| | | 19 | | | | | | 9-19 | 9-19 | 9-19 | 9-19 | 9-19 | 11-19 |
| | | 26 | | | | | | 10-26 | 10-26 | 10-26 | 10-26 | 10-26 | 12-26 |
| | | 31 | | | | | | 11-31 | 11-31 | 11-31 | 11-31 | 11-31 | 13-31 |
| | | 37 | | | | | | 12-37 | 13-37 | 12-37 | 12-37 | 12-37 | 15-37 |
| | | 55 | | | | | | N/A | 16-55 | 14-55 | 14-55 | 14-55 | 18-55 |
| | | 85 | | | | | | N/A | 17-85 | 15-85 | N/A | N/A | 19-85 |
| | | 100 | | | | | | N/A | 19-100 | 19-100 | N/A | N/A | 21-100 |
| | | 130 | | | | | | N/A | 21-130 | 21-130 | N/A | N/A | 23-130 |
| Size #20HD Contacts<br>7.5 Amp Max.Current<br>#20-#24 AWG<br>**1000 VAC DWV** | | | | 3 | | | | 6-23 | 6-23 | 6-23 | 6-23 | 6-23 | 8-23 |
| | | | | 5 | | | | 7-25 | 7-25 | 7-25 | 7-25 | 7-25 | 9-25 |
| | | | | 8 | | | | 8-28 | 8-28 | 8-28 | 8-28 | 8-28 | 10-28 |
| | | | | 10 | | | | 9-210 | 9-210 | 9-210 | 9-210 | 9-210 | 11-210 |
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| | | | | 41 | | | | N/A | 17-241 | 15-241 | N/A | N/A | 19-241 |
| | | | | 55 | | | | N/A | 19-255 | 19-255 | N/A | N/A | 21-255 |
| | | | | 69 | | | | N/A | 21-269 | 21-269 | N/A | N/A | 23-269 |
| Size #16 Contacts<br>13 Amp Max. Current<br>#16-#20 AWG<br>**1800 VAC DWV** | | | | | 1 | | | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 8-1 |
| | | | | | 2 | | | 8-2 | 8-2 | 8-2 | 8-2 | 8-2 | 10-2 |
| | | | | | 4 | | | 9-4 | 9-4 | 9-4 | 9-4 | 9-4 | 11-4 |
| | | | | | 5 | | | 10-5 | 10-5 | 10-5 | 10-5 | 10-5 | 12-5 |
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| | | | | | | 2 | | 10-2 | 10-2 | 10-2 | 10-2 | 10-2 | 12-2 |
| | | | | | | 2 | | 12-2 | 13-2 | 12-2 | 12-2 | 12-2 | 15-2 |
| | | | | | | 3 | | 12-3 | 13-3 | 12-3 | 12-3 | 12-3 | 15-3 |
| | | | | | | 5 | | N/A | 16-5 | 14-5 | 14-5 | 14-5 | 18-5 |
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| | | | | | | 12 | | N/A | 21-12 | 21-12 | N/A | N/A | 23-12 |
| Size #8 Contacts<br>46 Amp Max. Current<br>#8 AWG<br>**1800 VAC DWV** | | | | | | | 1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 10-1 |
| | | | | | | | 2 | N/A | 16-2 | 14-2 | N/A | N/A | 18-2 |
| | | | | | | | 3 | N/A | 17-3 | 15-3 | N/A | N/A | 19-3 |
| | | | | | | | 4 | N/A | 19-4 | 19-4 | N/A | N/A | 21-4 |
| | | | | | | | 5 | N/A | 21-5 | 21-5 | N/A | N/A | 23-5 |
| **Combo Arrangements** Featuring #23 Contacts<br>5 Amp Max. Current<br>#22 - #28 AWG<br>**750 VAC DWV** | | 12 | | | | 1 | | 10-200 | 10-200 | 10-200 | 10-200 | 10-200 | 12-200 |
| | | 4 | | | | 2 | | 10-201 | 10-201 | 10-201 | 10-201 | 10-201 | 12-201 |
| | | 6 | | | | 2 | | 12-200 | 13-200 | 12-200 | 12-200 | 12-200 | 15-200 |
| | | 10 | | | | 2 | | 12-201 | 13-201 | 12-201 | 12-201 | 12-201 | 15-201 |
| | | 4 | | | 2 | | | 9-200 | 9-200 | 9-200 | 9-200 | 9-200 | 11-200 |
| | | 8 | | | 2 | | | 10-202 | 10-202 | 10-202 | 10-202 | 10-202 | 12-202 |
| | | 4 | 2 | | | | | 8-200 | 8-200 | 8-200 | 8-200 | 8-200 | 10-200 |
| | | 8 | 2 | | | | | 9-201 | 9-201 | 9-201 | 9-201 | 9-201 | 11-201 |
| **Combo Arrangements** Featuring #23 Contacts<br>5 Amp Max. Current<br>#22 - #28 AWG<br>**1300 VAC DWV** | | 20 | | | 2 | | | 12-202 | 13-202 | 12-202 | 12-202 | 12-202 | 15-202 |
| | | 12 | | | 4 | | | 12-203 | 13-203 | 12-203 | 12-203 | 12-203 | 15-203 |
| | | 40 | | | 2 | | | 14-204 | 16-204 | 14-204 | 14-204 | 14-204 | 18-204 |
| | | 32 | | | 4 | | | 14-205 | 16-205 | 14-205 | 14-205 | 14-205 | 18-205 |
| | | 40 | | | 4 | | | 15-203 | 17-203 | 15-203 | 15-203 | 15-203 | 19-203 |
| | | 12 | | | | 2 | | 12-204 | 15-204 | 12-204 | 12-204 | 12-204 | 15-204 |
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| | | 28 | | | | 4 | | 15-204 | 19-207 | 15-204 | 15-204 | 15-204 | 19-204 |
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* DWV rating is applicable to contact arrangements shown.

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- **Thousands of Part Numbers In Stock and Ready for Same-Day Shipment**

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# Series 80 Mighty Mouse Contacts and Tools

## Product Selection Guide

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# Series 80 Mighty Mouse
## General Information

## About Series 80 Mighty Mouse Contacts

This section of the catalog contains ordering information for contacts. Series 80 Mighty Mouse connectors are supplied with a full complement of crimp contacts. Contacts are terminated to wire using special tools and are snapped into place by hand or with a hand-held insertion tool. Damaged or miswired contacts may be removed from the connector using special extraction tools.

Although the connectors are supplied with a full complement of contacts, extra contacts are commonly purchased as spares or to use for quality assurance purposes such as crimp tensile tests.

Coaxial contacts must be ordered separately. If your application requires coaxial contacts, select contact types "A" or "B" (pin or socket) in the connector part number. The connector will be supplied without contacts. Select the appropriate coaxial or pneumatic contact from this catalog.

Mighty Mouse contacts conform to the requirements of ***Aerospace Standard AS39029***. This SAE specification defines the design, dimensions and performance of contacts used in aerospace grade electrical connectors. The "***general specification***" covers a variety of contacts including thermocouple, hermetic, coaxial and triaxial types.

The ***"slash sheets"*** contain dimensions and other information for specific types of contacts. Each contact is assigned a ***Basic Identification Number (BIN)***, a non-significant three digit code corresponding to the color code on the contacts.

A ***Qualified Products List (QPL)*** identifies those manufacturers whose products have been verified to meet all requirements.

***Series 80 Size #23 and size #20HD contacts*** conform to AS39029 requirements, but are not covered by a slash sheet. Size #20, #16 and size #12 contacts are standard AS39029 contacts.

## About Crimp Tools

Series 80 signal, power and coaxial contacts are crimped to wire using mil spec crimpers. ***Military Specification MIL-DTL-22520*** provides the aerospace/defense industry with a common set of rugged, reliable hand crimp tools. This specification controls the voltage drop and tensile strength of crimp terminations.

***Before ordering, check to see if you might already have these tools!*** We have listed the military part number and the Daniels part number. Daniels Manufacturing Corporation is the leading manufacturer of these tools. However, size #23 and #20HD contacts require special positioners unique to the Mighty Mouse product line.

## Tip: Use the Tool Code to Find The Right Crimp Tool

**1**

Find the contact part number in the catalog. Note the tool codes in the right column. These tool codes identify the crimp tools required to terminate the contact. Usually two tools are required—a crimp frame plus a positioner to locate the contact.

| Contact Type | Wire Size | Material | Part Number | Ø A In. | Ø A mm. | Color Band | Tool Code |
|---|---|---|---|---|---|---|---|
| Pin | #22 – #28 | BeCu | 809-001 | .0335-.0355 | 0.851-0.902 | None | A, C |
| Pin | #26 – #30 | BeCu | 809-042 | .0229-.0245 | 0.582-0.622 | Blue | A, D |
| Pin | #22 – #28 | Alumel | 809-065A | .0335-.0355 | 0.851-0.902 | None | A, C |
| Pin | #22 – #28 | Chromel | 809-065C | .0335-.0355 | 0.851-0.902 | None | A, C |
| Socket | #22 – #28 | BeCu | 809-002 | .0335-.0355 | 0.851-0.902 | None | A, C |
| Socket | #26 – #30 | BeCu | 809-043 | .0229-.0245 | 0.582-0.622 | Blue | A, D |
| Socket | #22 – #28 | Alumel | 809-066A | .0335-.0355 | 0.851-0.902 | None | A, C |
| Socket | #22 – #28 | Chromel | 809-066C | .0335-.0355 | 0.851-0.902 | None | A, C |

**2**

Turn to the tool section starting on page A-10. Each crimp tool is identified with a letter code. Match the contact letter to the tool letter.

***Miniature Adjustable Crimp Tools***

These crimp tools perform precision eight indent crimps for gas-tight wire terminations and excellent tensile strength. Adjustment wheel has 8 settings. Ratchet mechanism prevents improper crimps. Use with bayonet-type positioners. Check calibration with M22520/3 gages. Length is 6.75 inches, weight is approx. 10 oz.

**A** Standard M22520/2-01 crimper. Use with standard size #23 and #20HD Mighty Mouse contacts and with M39029/76 and /78 coaxial center contacts. Requires positioner, ordered separately.

**B** Special MH992 crimper used with 50 ohm matched impedance coaxial inner contacts. Requires positioner, ordered separately.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| A | 809-015 | M22520/2-01 | AFM8 | A |
| B | 809-128 | (none) | MH992 | B |

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## Size #23 Crimp Contacts

#23 Pin Contact

#23 Socket Contact

Standard size #23 contacts accept #22 to #28 AWG wire. Choose "small bore" versions for #26 to #30 AWG wire. For thermocouple applications, specify alumel or chromel contacts. Contacts are bulk packaged. Terminate with standard M22520 crimper with special positioner.

| Contact Type | Wire Size | Material | Part Number | Ø A | | Color Band | Tool Code |
|---|---|---|---|---|---|---|---|
| | | | | In. | mm. | | |
| Pin | #22 – #28 | BeCu | 809-001 | .0335-.0355 | 0.851-0.902 | None | A, C |
| Pin | #26 – #30 | BeCu | 809-042 | .0229-.0245 | 0.582-0.622 | Blue | A, D |
| Pin | #22 – #28 | Alumel | 809-065A | .0335-.0355 | 0.851-0.902 | None | A, C |
| Pin | #22 – #28 | Chromel | 809-065C | .0335-.0355 | 0.851-0.902 | None | A, C |
| Socket | #22 – #28 | BeCu | 809-002 | .0335-.0355 | 0.851-0.902 | None | A, C |
| Socket | #26 – #30 | BeCu | 809-043 | .0229-.0245 | 0.582-0.622 | Blue | A, D |
| Socket | #22 – #28 | Alumel | 809-066A | .0335-.0355 | 0.851-0.902 | None | A, C |
| Socket | #22 – #28 | Chromel | 809-066C | .0335-.0355 | 0.851-0.902 | None | A, C |

| CRIMP TENSILE STRENGTH | | |
|---|---|---|
| Values are in pounds and are minimums. | | |
| Wire Gage | Silver or Tin Coated Copper Wire | Nickel Coated Copper Wire |
| #22 | 12 | 8 |
| #24 | 8 | 6 |
| #26 | 5 | 3 |
| #28 | 3 | 2 |
| #30 | 1.5 | 1.5 |

### Material and Finish

Beryllium copper alloy per ASTM B196 or B197, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches.
Thermocouple contacts: alumel or chromel alloy, unplated, per ANSI 96.1
Socket contact hood: stainless steel, passivated per AMS-QQ-P-35.

### Specifications

Current Rating: 5 Amps maximum
Voltage Drop (at 5 Amps and 25° C): 70 millivolts maximum
Temperature Range: -65° to + 200° C
Socket Contact Minimum Separation Force: 0.5 ounces

### Crimp Tools and Insertion/Removal Tools

Crimper: 809-015
Positioner: 809-005 (standard). Use P/N 809-057 for small bore contacts 809-065 and 809-066
Standard Insertion/Removal Tool: 809-088

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# Series 80 Mighty Mouse Contacts and Tools

## Size #23 Crimp Contact Instructions

## *How To Terminate, Install and Remove Size #23 Contacts*

**1** ***Set Up Crimp Tool.*** Install proper positioner into crimp tool. The label on the positioner shows the proper tool setting for each wire size. Turn the adjustment wheel to the correct setting.

**2** ***Strip Wire.*** Remove wire insulation, taking care to avoid nicking or cutting wire strands. Strip wire to length shown.

**3** ***Insert wire*** into contact. The wire should be visible in the inspection hole.

**4** Insert contact into crimp tool as shown. Make sure that the contact is fully inserted into the tool. Squeeze handle completely. The ratchet mechanism will not allow a partial crimp. Release handle and remove contact.

**5** ***Inspect crimped contact.*** Wire should be fully inserted and the crimp should be uniform in appearance.

Insertion/Extraction Tool 809-088

**6** ***Install contact into connector.*** Push the contact through the rear grommet until the contact locks into place. This can usually be done by hand without the need for a tool. If the wire gage is #26 or smaller, a tool is helpful. There are two techniques for installing contacts with a tool. One method is to push the contact in by hand, then use the tool to finish the insertion. The other method is to position the insertion tip against the contact shoulder, then insert the contact. Use insertion/extraction tool 809-088 to install contacts. Slide the wire into the groove on the blue end of the tool. Slide the tool tip up the contact until it touches the contact shoulder. **USE CARE TO AVOID DAMAGING THE CONNECTOR.**

**7** ***Contact Extraction.*** Use tool 809-088. The white end is used for contact extraction. First, push the wire into the groove of the metal tip. Slide the tip of the tool into the connector. Push the tool into the connector cavity until the tip bottoms in the connector. Avoid wiggling or rocking the tip. This may damage the cavity. A straight push is best. Pinch the wire between your finger and the white plastic grip and slide the tool and contact out of the connector. **Wire insulation diameter greater than 0.045 inches (1.14mm) is too large to work properly with the extraction tool. connector damage is possible.**

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## Adapter for Crimping #20 AWG Wire to Size #23 Contacts

*#20 AWG Wire Adapter*

Size #22 AWG wire is the largest wire size that fits standard size 23 contacts. Use this adapter to attach larger #20 gage wire. First, crimp wire to adapter, then crimp the adapter into the size #23 contact. Adapters are made of tellurium copper alloy #1452, and are gold plated. Crimp with M22520/1-01 tool and 809-138 (Daniels TH653) positioner. These adapters cannot be removed from connectors.

| Adapter Size | Wire Size | Part Number | Tool Code |
|---|---|---|---|
| #22-20 | #20 | **809-093** | J, L |

## Size #20HD Crimp Contacts

*#20HD Pin Contact*

*#20HD Socket Contact*

High-density size #20HD contacts accept #20 to #24 AWG wire. At rated test current of 7.5 amps, the maximum voltage drop is 55 millivolts. Contacts are gold-plated copper alloy. Socket contacts feature stainless steel hoods to protect against probe damage. Contacts are bulk packaged. Terminate with M22520/2-01 crimper and 809-206 positioner.

| Contact Type | Wire Size | Part Number | Tool Code |
|---|---|---|---|
| Pin | #20 – #24 | **809-204** | A, I |
| Socket | #20 – #24 | **809-205** | A, I |

| CRIMP TENSILE STRENGTH | | |
|---|---|---|
| Values are in pounds and are minimums. | | |
| Wire Gage | Silver or Tin Coated Copper Wire | Nickel Coated Copper Wire |
| #20 | 20 | 19 |
| #22 | 12 | 8 |
| #24 | 8 | 6 |

### Material and Finish

Beryllium copper alloy, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches. Socket contact hood: stainless steel, passivated per AMS-QQ-P-35.

### Specifications

Current Rating: 7.5 Amps maximum
Temperature Range: -65° to + 200° C
Socket Contact Minimum Separation Force: 0.7 ounces

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# Series 80 Mighty Mouse Contacts and Tools

## #20, #16, #12 Contacts

## Size #20 Crimp Contacts

*#20 Pin Contact*

*#20 Socket Contact*

Standard size #20 contacts accept #20 to #24 AWG wire. At rated test current of 7.5 amps, the maximum voltage drop is 55 millivolts. Contacts are gold-plated copper alloy. Socket contacts feature stainless steel hoods to protect against probe damage. Approved to SAE-AMS-39029. Contacts are bulk packaged. Terminate with M22520/1-01 crimper and M22520/1-04 positioner.

| Contact Type | Wire Size | Part Number | Military Part Number | Color Band | | | Tool Code |
|---|---|---|---|---|---|---|---|
| | | | | 1st | 2nd | 3rd | |
| Pin | #20 – #24 | **850-002-20-363** | M39029/58-363 | Orange | Blue | Orange | J, K |
| Socket | #20 – #24 | **850-003-20-357** | M39029/57-357 | Orange | Green | Violet | J, K |

## Size #16 Crimp Contacts

*#16 Pin Contact*

*#16 Socket Contact*

Standard size #16 contacts accept #16 to #20 AWG wire. At rated test current of 13 amps, the maximum voltage drop is 74 millivolts. Contacts are gold-plated copper alloy. Socket contacts feature stainless steel hoods to protect against probe damage. Approved to SAE-AMS-39029. Contacts are bulk packaged. Terminate with M22520/1-01 crimper and M22520/1-04 positioner.

| Contact Type | Wire Size | Part Number | Military Part Number | Color Band | | | Tool Code |
|---|---|---|---|---|---|---|---|
| | | | | 1st | 2nd | 3rd | |
| Pin | #16 – #20 | **809-110** | M39029/58-364 | Orange | Blue | Yellow | J, K |
| Socket | #16 – #20 | **809-111** | M39029/57-358 | Orange | Green | Gray | J, K |

## Size #12 Crimp Contacts

*#12 Pin Contact*

*#12 Socket Contact*

Standard size #12 contacts accept #12 to #14 AWG wire. At rated test current of 23 amps, the maximum voltage drop is 63 millivolts. Contacts are gold-plated copper alloy. Socket contacts feature stainless steel hoods to protect against probe damage. Approved to SAE AS39029. Contacts are bulk packaged. Terminate with M22520/1-01 crimper and M22520/1-04 positioner.

| Contact Type | Wire Size | Part Number | Military Part Number | Color Band | | | Tool Code |
|---|---|---|---|---|---|---|---|
| | | | | 1st | 2nd | 3rd | |
| Pin | #12 – #14 | **809-112** | M39029/58-365 | Orange | Blue | Green | J, K |
| Socket | #12 – #14 | **809-113** | M39029/57-359 | Orange | Green | White | J, K |

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## Size #16 Coaxial Contacts

These #16 contacts accept 50 ohm and 75 ohm coaxial cable. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 800 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and are unassembled with instruction sheet. One contact consists of outer contact , fluorocarbon dielectric, inner contact and shield crimp sleeve. Inner and outer contacts are gold-plated copper alloy. Approved to SAE AS39029. VSWR rating 1.5:1 maximum up to 700 MHz. 5000 megohm insulation resistance.

| Type | Cable Size | Part Number | Military Part Number | Color Band | | | Tool Code |
|---|---|---|---|---|---|---|---|
| | | | | 1st | 2nd | 3rd | |
| Pin | RG174, RG316, RG179 | **809-114** | M39029/76-424 | Yellow | Red | Yellow | A, E, M, N |
| Pin | RG178 | **809-115** | M39029/76-425 | Yellow | Red | Green | A, E, M, N |
| Socket | RG174, RG316, RG179 | **809-116** | M39029/78-432 | Yellow | Orange | Red | A, E, M, N |
| Socket | RG178 | **809-117** | M39029/78-433 | Yellow | Orange | Orange | A, E, M, N |

## Size #12 Coaxial Contacts

These #12 contacts accept 50 ohm and 75 ohm coaxial cable. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 1000 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. One contact consists of outer contact , fluorocarbon dielectric, inner contact and shield crimp sleeve. Inner and outer contacts are gold-plated copper alloy. Approved to SAE AS39029. VSWR rating 1.5:1 maximum up to 700 MHz. 5000 megohm insulation resistance.

| Type | Cable Size | Part Number | Military Part Number | Color Band | | | Tool Code |
|---|---|---|---|---|---|---|---|
| | | | | 1st | 2nd | 3rd | |
| Pin | RG174, RG316, RG179 | **809-118** | M39029/28-211 | Red | Brown | Brown | A, G, O, P |
| Pin | RG180 | **809-119** | M39029/28-409 | Yellow | Black | White | A, G, O, P |
| Socket | RG174, RG316, RG179 | **809-120** | M39029/27-210 | Red | Brown | Black | A, G, O, P |
| Socket | RG180 | **809-121** | M39029/27-402 | Yellow | Black | Red | A, G, O, P |

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# Series 80 Mighty Mouse Contacts and Tools

## Matched Impedance Coaxial Contacts

## *Size #12, 50 Ohm Matched Impedance Coaxial Contacts*

*#12 Pin Contact*

*#12 Socket Contact*

These contacts offer improved frequency response compared to standard coaxial contacts above. VSWR is 1.32:1 at 3GHz . Nominal impedance is 50 ohms. Insertion loss at 3GHz is 0.20 dB maximum. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 1000 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. Inner and outer contacts are gold-plated copper alloy. 5000 megohm insulation resistance. Terminate crimp type coaxial center contact with hand tool 809-128 (Daniels MH992). Terminate cable braid to contact with 809-129 (Daniels HX4) parallel action crimp tool and 809-120 (Daniels Y196) hex die.

| Contact Type | Cable Type | Part Number | Termination | Fig. | Tool Code |
|---|---|---|---|---|---|
| Pin | M17/113-RG316 | **852-016-01** | Crimp | 1 | B, H, Q, R |
| Pin | M17/152-00001(RG316DS) | **852-016-02** | Crimp | 1 | B, H, Q, R |
| Pin | M17/93-RG178 | **852-016-03** | Crimp | 1 | B, F, Q, R |
| Pin | TFLEX-405 | **852-018** | Solder | 2 | (No Tool) |
| Socket | M17/113-RG316 | **852-015-01** | Crimp | 3 | B, H, Q, R |
| Socket | M17/152-00001(RG316DS) | **852-015-02** | Crimp | 3 | B, H, Q, R |
| Socket | M17/93-RG178 | **852-015-03** | Crimp | 3 | B, F, Q, R |
| Socket | TFLEX-405 | **852-017** | Solder | 4 | (No Tool) |

**Figure 1**

**Figure 2**

**Figure 3**

**Figure 4**

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## Size #12 Pneumatic Contacts

Stainless steel pneumatic contacts attach to 3/32 inch (2.38) diameter tubing. Socket contact has o-ring and PTFE backup washers. Contacts snap into size #12 connector cavities. Ideal for pitot tube connections, these pneumatic contacts are rated for 100 PSI maximum air pressure. No installation tool is required. Remove contacts with plastic extraction tool 809-132.

| Contact Type | Tube I.D. | Part Number |
|---|---|---|
| Pin | .094 (2.38) | 857-011 |
| Socket | .094 (2.38) | 857-010 |

### Material and Finish

Body and Cap: stainless steel, passivated
O-ring: fluorosilicone
Washers: PTFE

857-010 Socket Contact

857-011 Pin Contact

## Grommet Sealing Plugs

Grommet sealing plugs are used to seal unwired contact cavities. The size #23 sealing plug is specially designed to fit Glenair Series 80 grommets. Sizes 20, 16 and 12 plugs conform to MS27488 requirements. After installing unwired contacts into unused cavities, insert knob end of sealing plug into grommet until it bottoms against the unwired contact per illustration. Install sealing plugs with standard contact insertion/extraction tools . Size #23 plug is polyphenylsulphone, other sizes are per MS27488 requirements.

| Fig. | Size | Color | Part Number | Military Part Number | Insertion/ Removal Tool | A Ref. | | B Ref. | | C Ref. | | D Ref. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | in. | mm. | in. | mm. | in. | mm. | in. | mm. |
| 1 | #23 | Black | 809-155 | (None) | M81969/14-01 | .040 | 1.02 | .51 | 13.0 | .052 | 1.32 | .050 | 1.27 |
| 2 | #20 | Red | 859-012 | MS27488-20-2 | M81969/14-11 | .053 | 1.35 | .82 | 20.8 | .085 | 2.16 | .125 | 3.18 |
| 3 | #16 | Green | 859-013 | MS27488-16-2 | M81969/14-03 | .074 | 1.88 | .88 | 22.4 | .125 | 3.18 | .125 | 3.18 |
| 4 | #12 | Orange | 859-014 | MS27488-12-2 | M81969/14-04 | .120 | 3.05 | .85 | 21.6 | .165 | 4.19 | .125 | 3.18 |

### Installation of Sealing Plugs

"When installing sealing plug in connector cavities without contacts, the end opposite the knob shall be inserted first and the knob shall be seated against the grommet face. When installing into cavities with contacts, the sealing plugs shall be installed knob end first and shall bottom on the contact wire barrel."
(NAVAIR 01-1A-505–1 Installation manual)

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# Series 80 Mighty Mouse Contacts and Tools

## Crimp Tools and Positioners

## Miniature Adjustable Crimp Tools

These crimp tools perform precision eight indent crimps for gas-tight wire terminations and excellent tensile strength. Adjustment wheel has 8 settings. Ratchet mechanism prevents improper crimps. Use with bayonet-type positioners. Check calibration with M22520/3 gages. Length is 6.75 inches, weight is approx. 10 oz.

**A** Standard M22520/2-01 crimper. Use with standard size #23 and #20HD Mighty Mouse contacts and with M39029/76 and /78 coaxial center contacts. Requires positioner, ordered separately.

**B** Special MH992 crimper used with 50 ohm matched impedance coaxial inner contacts. Requires positioner, ordered separately.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| A | 809-015 | M22520/2-01 | AFM8 | A |
| B | 809-128 | (none) | MH992 | B |

## Positioners For Use With Miniature Adjustable Crimp Tools

These bayonet-type positioners hold contacts at correct height for crimping with M22520/2 type miniature step adjustable tools, above. Face plate shows correct tool settings.

**C** Positioner for standard size #23 contacts. #22-#28 AWG. Use with 809-015 crimp tool.

**D** Positioner for small bore size #23 contacts. #26-#30 AWG. Use with 809-015 crimp tool.

**E** Positioner for M39029/76 and 78 coaxial inner contact. Use with 809-015 crimp tool.

**F** Positioner for matched impedance #12 coaxial inner contact. Use with 809-128 crimp tool.

**G** Positioner for M39029/27 and 28 #12 coaxial inner contact. Use with 809-015 crimp tool.

**H** Positioner for matched impedance #12 coaxial inner contact. Use with 809-128 crimp tool.

**I** Positioner for #20HD contacts. Use with 809-015 crimp tool.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| C | 809-005 | (none) | K1461 | C |
| D | 809-057 | (none) | (none) | D |
| E | 809-125 | M22520/2-35 | K532-1 | E |
| F | 809-124 | (none) | K1360 | F |
| G | 809-135 | M22520/2-34 | K323 | G |
| H | 859-006 | (none) | K1721 | H |
| I | 809-206 | (none) | (none) | I |

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## Crimp Tool And Positioner For #12, #16 and #20 Power Contacts, 809-093 Adapters

**J** Crimp tool for use with size #20, #16 and #12 power pins. 9.75 inches OAL, 1.25 pounds. Use with M39029/57 and /58 contacts and 809-093 adapters.

**K** Positioner for use with size #20, #12 and #16 Power contacts.

**L** Positioner for use with 809-093 adapters.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| J | 809-136 | M22520/1-01 | AF8 | J |
| K | 809-137 | M22520/1-04 | TH163 | K |
| L | 809-138 | (none) | TH653 | L |

## Crimp Tool And Positioner For #16 Coaxial Outer Contact

For crimping size #16 shield sleeves. These mil spec approved tools feature a ratchet mechanism to prevent damage from overcrimping. Check calibration with M22520/3 gage.

**M** Crimp tool for use with size #16 coaxial contacts. Blue handles. 9.75 inches OAL, 1.25 pounds.

**N** Positioner for use with size #16 coaxial contacts. Use with 809-127 (M22520/4-01) crimp tool.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| M | 809-127 | M22520/4-01 | GS100-1 | M |
| N | 809-126 | M22520/4-02 | GP295 | N |

## Crimp Tool And Positioner For #12 Coaxial Outer Contact

For crimping size #12 shield sleeves. These mil spec approved tools feature a ratchet mechanism to prevent damage from overcrimping. Check calibration with M22520/3 gage.

**O** Crimp tool for use with size #12 coaxial contacts. Black handles. 9.75 inches OAL, 1.25 pounds.

**P** Positioner for use with size #12 coaxial contacts. Use with 809-133 (M22520/31-01) crimp tool.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| O | 809-133 | M22520/31-01 | GS200-1 | O |
| P | 809-134 | M22520/31-02 | G2P330 | P |

## Parallel Action Crimp Tool and Hex Die Set for 50 Ohm Matched Impedance #12 Coax

**Q** Parallel action tool for use with hex crimp dies. 11 inches OAL, 2.0 pounds. Anodized aluminum frame, steel mechanism, plastic handles. Includes tool for die set removal. Accepts all M22520/5 die sets.

**R** Die set for terminating coaxial shield to outer contact. Use with size #12 matched impedance M39029/102 and 103 type coaxial contacts. Set consists of upper and lower halves. Made of hardened steel with black oxide finish. Die set has two closures.

| Figure | Part Number | Military Part Number | Daniels Part Number | Tool Code |
|---|---|---|---|---|
| Q | 809-129 | M22520/5-01 | HX4 | Q |
| R | 809-130 | M22520/5-03 | Y196 | R |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse Contacts and Tools

## Contact Insertion and Removal Tools and Contact Retention Tester 809-107

## Contact Insertion and Removal Tools

**1** Insertion/Extraction Tool for #23 Contacts. This tool features molded plastic grips and sturdy stainless steel tips. Blue/White molded handle.

**2** Insertion Tool for #23 Contacts. This tool features anodized aluminum handle and stainless steel insertion tip.

**3** Insertion/Extraction Tool for #20HD Contacts. This tool features molded plastic grips and sturdy stainless steel tips. Green/White molded handle.

**4** Insertion/Extraction Tool for #16 Contacts. Use with size #16 coaxial or power contacts. Economical molded plastic. White extraction tip, blue insertion tip.

**5** Insertion/Extraction Tool for #12 Contacts. Use with size #12 coaxial or power contacts. Molded plastic. White extraction tip, yellow insertion tip.

**6** Insertion/Extraction Tool for #20 Contacts. Molded plastic. Orange extraction tip, red insertion tip.

| Figure | Size | Type | Part Number | Military Part Number | Daniels Part Number |
|---|---|---|---|---|---|
| 1 | #23 | Insertion/Extraction | **809-088** | (None) | (None) |
| 2 | #23 | Insertion Only | **809-013** | (None) | DAK225-22 |
| 3 | #20HD | Insertion/Extraction | **809-203** | (None) | (None) |
| 4 | #16 | Insertion/Extraction | **809-131** | M81969/14-03 | (None) |
| 5 | #12 | Insertion/extraction | **809-132** | M81969/14-04 | (None) |
| 6 | #20 | Insertion/extraction | **809-207** | M81969/14-10 | (None) |

## Contact Retention Tester for Size #23 Contacts

Check for properly seated contacts with this spring-loaded tester. Apply the tool tip to the mating end of a contact. Push on the handle until the spring compresses to the recommended force. A visual indicator shows full compression. The contact is properly retained if it is not displaced.

The adjustable handle should be set to 3.2 pounds (14.2 N). The pin tip is used with #23 pin contacts. The socket tip is used with #23 socket contacts.

Order the complete kit, or order the tips and handle separately.

| Figure | Description | Part Number | Daniels Part Number |
|---|---|---|---|
| 1 | Handle | **809-107-1** | HT250-2 |
| 2 | Pin Tip | **809-107-2** | 68-023-01 |
| | Socket Tip (not shown) | **809-107-3** | 67-023-01 |
| | Complete Kit | **809-107-4** | (None) |

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## BAND-IT® Shield Termination System

Fast, cost-effective shield termination. Attach cable shields to Series 80 connectors or backshells with ***BAND-IT®*** stainless steel straps. The ***BAND-IT®*** system offers fast termination and the flexibility to handle a wide range of parts with just one band size. Approved for aerospace and defense, these straps have successfully passed rigorous shock, vibration and environmental testing.

**1** Micro Band Installation Tool. Use with .120" (3.05 mm) wide bands. 6.75 inches (172 mm.) length, 1.2 pounds (0.6 Kg.)

**2** Micro Band, .120" (3.05 mm) wide. Available in two lengths, flat or pre-coiled. Stainless steel.

| Figure | Description | Part Number |
|---|---|---|
| 1 | Micro Band Installation Tool | **600-061** |

| Figure | Length | | Part Number | | Acommodates Diameter | |
|---|---|---|---|---|---|---|
| | in. | mm. | Flat | Pre-Coiled | in. | mm. |
| 2 | 8.125 | 206.38 | **600-057** | **600-057-1** | .88 | 22.35 |
| 2 | 14.250 | 361.95 | **600-083** | **600-083-1** | 1.88 | 47.75 |

Contact Glenair or visit our website (glenair.com) to view our complete line of ***BAND-IT®*** products, including pneumatic tools for high volume production and calibration kits.

## BAND-IT® Shield Termination Instructions

1. Prepare Cable Braid for termination process (Figure 1).
2. Push Braid forward over Adapter Retention Lip to the Adapter Incline Point (or .4" [10.2mm] minimum braid length). Milk Braid as required to remove slack and insure a snug fit around the shield termination area (Figure 2).
3. Prepare the Band in the following manner:

   IMPORTANT: Due to Connector/Adapter circumference, it may be necessary to prepare the Band around the Cable or Retention Area.

   A. Roll Band through the Buckle Slot twice. (Bands must be double-coiled.)

   B. Pull on Band until Mark ( ▷| ) is within approximately .250 inch (6.4mm) of Buckle Slot (Figure 3). The Band may be tightened further if desired.

***NOTE: Prepared Band should have ( ▷| ) Mark visible approximately where shown in Figure* 3.**

Shield Termination

Clamping Process (Figures 4 thru 8)

NOTE: To free Tool Handles, move Holding Clips to center of Tool.

4. Squeeze Gripper Release Lever and insert Band into the front end opening of the Tool. (NOTE: Circular portion of looped band must always face downward.)
5. Aligning the Band and Tool with the Shield Termination Area, squeeze Black Pull-Up Handle repeatedly using short strokes until it locks against Tool Body. (This indicates the Band is compressed to the Tool Precalibrated Tension.)

   NOTE: If alignment of band and shield is unsatisfactory, tension on band can be relaxed by pushing on slotted release lever on top of tool. Make adjustments as necessary and again squeeze black pull-up handle.
6. Complete the Clamping Process by squeezing the Gray Cut-Off Handle.
7. Remove excess band from tool and dispose.
8. Inspect Shield Termination.

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse Contacts and Tools

## Jam Nut Tightening Tools
## Connector Holding Fixtures

## *Spanner Tool for Tightening Series 80 Jam Nuts*

Use these tools to tighten Series 80 jam nuts. 1/4" or 3/8" square drive for use with torque wrenches. Heat-treated steel, nickel plated.

| | Spanner Tool Part Number | | | | | |
|---|---|---|---|---|---|---|
| Shell Size | Series 800 | Series 801 | Series 803 | Series 804 Style 07 | Series 804 Style 00 | Series 805 |
| 5 | 600-146-01 | 600-146-02 | 600-137-05 | 600-146-03 | 600-147-5 | — |
| 6 | 600-146-02 | 600-146-03 | 600-137-06 | 600-146-04 | 600-147-6 | — |
| 7 | 600-146-03 | 600-146-05 | 600-137-07 | 600-146-06 | 600-147-7 | — |
| 8 | 600-146-04 | 600-146-05 | 600-137-08 | 600-146-06 | 600-147-7 | 600-154-08 |
| 9 | 600-146-05 | 600-146-06 | 600-137-09 | 600-146-07 | 600-147-9 | 600-154-09 |
| 10 | 600-146-06 | 600-146-07 | 600-137-10 | 600-146-08 | 600-147-10 | 600-154-09 |
| 11 | — | — | — | — | — | 600-154-11 |
| 12 | 600-146-08 | — | 600-137-12 | 600-146-10 | 600-147-12 | 600-154-12 |
| 13 | — | 600-146-10 | — | — | — | — |
| 14 | 600-146-10 | — | 600-137-14 | 600-146-12 | 600-147-14 | — |
| 15 | 600-146-11 | — | 600-137-15 | 600-146-13 | 600-147-15 | 600-154-15 |
| 16 | — | 600-146-13 | — | — | — | — |
| 17 | — | 600-146-14 | — | — | — | — |
| 18 | — | — | — | — | — | 600-154-18 |
| 19 | — | — | — | — | — | 600-154-19 |
| 21 | — | 600-146-17 | — | — | — | — |
| 23 | — | — | — | — | — | 600-154-23 |

## *Connector Holding Tool for Tightening Backshells and Accessories*

1

2

**1** Plug tool for holding Series 80 plug connectors. Heat-treated steel, nickel plated.

**2** Receptacle tool for holding Series 80 receptacle connectors. Heat-treated steel, nickel plated.

| Shell Size | Holding Tool Part Number (Add P or R) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Series 800 | | Series 801 | | Series 803 | | Series 804 | | Series 805 | |
| 5 | 600M005-05 | ★ | 600MM005-05 | ♦ | 600-140-5 | ★ | 600-141-5 | ■ | — | |
| 6 | 600M005-06 | ★ | 600MM005-06 | ♦ | 600-140-6 | ★ | 600-141-6 | ■ | — | |
| 7 | 600M005-07 | ★ | 600MM005-07 | ♦ | 600-140-7 | ★ | 600-141-7 | ■ | — | |
| 8 | 600M005-08 | ★ | 600MM005-08 | ♦ | 600-140-8 | ★ | 600-141-8 | ■ | 600-185-8 | ○ |
| 9 | 600M005-09 | ★ | 600MM005-09 | ♦ | 600-140-9 | ★ | 600-141-9 | ■ | 600-185-9 | ○ |
| 10 | 600M005-10 | ★ | 600MM005-10 | ♦ | 600-140-10 | ★ | 600-141-10 | ■ | 600-185-10 | ○ |
| 11 | — | | — | | — | | — | | 600-185-11 | ○ |
| 12 | 600M005-12 | ★ | — | | 600-140-12 | ★ | 600-141-12 | ■ | 600-185-12 | ○ |
| 13 | — | | 600MM005-13 | ♦ | — | | — | | — | |
| 14 | — | | — | | 600-140-14 | ★ | 600-141-14 | ■ | — | |
| 15 | — | | — | | 600-140-15 | ★ | 600-141-15 | ■ | 600-185-15 | ○ |
| 16 | — | | 600MM005-16 | ♦ | — | | — | | — | |
| 17 | — | | 600MM005-17 | ♦ | — | | — | | — | |
| 18 | — | | — | | — | | — | | 600-185-18 | ○ |
| 19 | — | | — | | — | | — | | 600-185-19 | ○ |
| 21 | — | | 600MM005-21 | ♦ | — | | — | | — | |
| 23 | — | | — | | — | | — | | 600-185-23 | ○ |

★ Add ***P*** for plug holder or ***R*** for receptacle holder, followed by polarizing position (***N,X,Y,Z***).

♦ Add ***P*** for plug holder or ***R*** for receptacle holder, followed by polarizing position (***A,B,C,D***).

■ Add ***P*** for plug holder or ***R*** for receptacle holder.

○ Add ***P*** for plug holder followed by polarizing position (***A, B, C, D***) or ***R*** for receptacle holder.

Dimensions in inches (millimeters) and are subject to change without notice.

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# 853-015
## Size #12 Differential Twinax Socket Contact
### For Use with Mighty Mouse and Series 79 Micro-Crimp

## *Size #12 Differential Twinax Socket Contact for Multi-Gigabit Data Rate Applications*

These solder terminated #12 twinax socket contacts accept 100 ohm twinax cable. Current rating is 1 Amp. DWV rating is 500 Vac rms sea level, 125 Vac at 70,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. One contact consists of outer contact, center contact and crimp sleeve. All contacts are gold-plated copper alloy. 5000 megohm insulation resistance at 200Vdc. Mates with: 853-016. Ideally suited for multi-gigabit data rate applications such as 1000 Base-T gigabit ethernet.



| Type | Glenair Part No. | Military Part No. | AWG Wire Size | Cable Accommodation | Impedence | Frequency Range | VSWR | Insertion Loss |
|---|---|---|---|---|---|---|---|---|
| Socket | 853-015-01 | N/A | 28 | 859-041<br>963-001 | 100-Ohms Nominal | DC to 10 GHz | 1.1 + (.03 * F GHz) | 1.3 *F GHz |

### *Material and Finish*
Contact Body: Copper Alloy/Gold Plated
Center Contact: Copper Alloy/Gold Plated
Crimp Sleeve: Brass or equivalent/Gold Plated

### *Electrical Parameters*
Differential Impedence: 100-ohms nominal
Frequency Range: DC to 10 Ghz
VSWR: 1.1+(.03* F GHz)
Insertion Loss: 1/3* F GHz
Dielectric Withstanding Voltage: 500 Vrms
Insulation Resistence: 5000 Megohms minimum

### *Notes*
Contact is designed to accommodate Glenair P/N 963-001 cable.
For assembly instructions, see AI85014.
Socket contact shall mate with Glenair Pin Contact P/N 853-016-XX.
For use in Glenair Mighty Mouse and Series 79 Micro-Crimp connectors only.
PCB Tail-equipped contacts also available. Consult factory.

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## Series 80 Connectors for Space Flight

*The small size and reduced weight of the Series 80 connector make it an excellent choice for space instrumentation. Series 80 connectors are available with special screening and outgassing for satellites and space vehicles. This section explains NASA guideline for connector selection, screening and outgassing. This section also explains how to order connectors screened to meet NASA EEE-INST-002.*

### Five things you should know about Series 80 connectors for space flight

1 **Material Selection:** What materials are approved for space-grade connectors? What materials are prohibited? Does the Series 80 connector contain space-approved materials?

2 **Outgassing:** What is outgassing, why is it important, and how does it affect connector selection? Is special processing required to meet outgassing requirements?

3 **Screening:** What is NASA screening and what level of screening is required?

4 **Magnetic permeability:** Are nonmagnetic connectors required?

5 **Cryogenic exposure:** Are these connectors suitable for -200° C. exposure?

### How To Order Space Grade Series 80 Connectors

**Step 1: Find a Standard Part Number**
Electroless nickel plated shells are preferred for space flight. Cadmium plating is prohibited.

**Step 2: Select a NASA Screening Level**
The term "Screening Level" refers to the final inspection procedure.
Level 1 for mission-critical highest reliability
Level 2 for high reliability
Level 3 for standard reliability

**Step 3: Choose Outgassing Processing**
A detailed explanation of outgassing is on the following pages. The fluorosilicone rubber seals commonly used on aerospace-grade connectors such as MIL-DTL-38999 and Series 80 connectors, along with certain bonding agents and inks, do not meet NASA outgassing requirements unless the connector is specially processed. Glenair outgassing tests have shown oven baking or thermal vacuum outgassing processing are sufficient to reduce outgassing levels to NASA standards. Oven baking is more economical than thermal vacuum outgassing.

**Step 4: Select the Mod 429 Code that Matches the Desired Level of Screening and Outgassing**
Use the following table to choose the right modification code. Add the mod code to the connector part number. Example: 801-007-16M6-7PA-***429C***

**Nasa Screening Levels and Modification Codes**

| NASA Screening Level | Special Screening Only | Special Screening Plus Outgassing Processing | |
|---|---|---|---|
| | | **48 Hour Oven Bake** 175° C. | **Thermal Vacuum Outgassing** 24 hrs. 125° C. |
| Level 1 Highest Reliability | Mod 429B | Mod 429J | Mod 429C |
| Level 2 High Reliability | Mod 429 | Mod 429K | Mod 429A |
| Level 3 Standard Reliability | (Use standard part number) | Mod 186 | Mod 186M |

Dimensions in Inches (millimeters) are subject to change without notice.

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# AI85014
# Twinax Socket Contact
## Assembly Instructions

Socket Contact

100 Ohm Parallel Cable



### STEP 1

1. Strip cable to dimensions shown. ***Be careful not to flare braid open***.
2. Pre-tin conductor and braid shield.
3. Clean the solder joint with alcohol.

### STEP 2

1. Insert cable into socket contact. ***Make sure center conductor lines up to the center socket.***

### STEP 3

1. Install center conductors until they bottom-out in the contact cavity. ***Inspect to ensure cable shield is visible through the inspection hole***.
2. Apply flux and solder through the inspection hole; remove residues and contamination with alcohol after soldering.

### STEP 4

1. Install M23053/5-204 or M23053/6-204 shrink tubing; cover solder area and extend insulation by minimum of one wire diameter.

### STEP 5

1. Illustrates final assembly.

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# AI85015
## Twinax Pin Contact
### Assembly Instructions

Pin Contact

100 Ohm Parallel Cable

## STEP 1

1. Strip cable to dimensions shown. ***Be careful not to flare braid open***.
2. Pre-tin conductor and braid shield.
3. Clean the solder joint with alcohol.

## STEP 2

1. Insert cable into pin contact. ***Make sure center conductor lines up to the center pin.***

## STEP 3

1. Install center conductors until they bottom-out in the contact cavity. ***Inspect to ensure cable shield is visible through the inspection hole***.
2. Apply flux and solder through the inspection hole; remove residues and contamination with alcohol after soldering.

## STEP 4

1. Install M23053/5-204 or M23053/6-204 shrink tubing; cover solder area and extend insulation by minimum of one wire diameter.

## STEP 5

1. Illustrates final assembly.

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# Series 80 Mighty Mouse Contact Arrangements

## SERIES 80 MIGHTY MOUSE CONTACT ARRANGEMENTS

| Contact Size | | Number of Contacts | Contact Arrangement | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Series 800 | Series 801 | Series 802 | Series 803 | Series 804 | Series 805 |
| **Size #23 Contacts** #22-#28 AWG | | 3 | 5-3 | 5-3 | 5-3 | 5-3 | 5-3 | Not Avail. |
| | | 4 | 6-4 | 6-4 | 6-4 | 6-4 | 6-4 | 8-4 |
| | | 6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 8-6 |
| | | 7 | 6-7 | 6-7 | 6-7 | 6-7 | 6-7 | 8-7 |
| | | 10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 9-10 |
| | | 13 | 8-13 | 8-13 | 8-13 | 8-13 | 8-13 | 10-13 |
| | | 19 | 9-19 | 9-19 | 9-19 | 9-19 | 9-19 | 11-19 |
| | | 26 | 10-26 | 10-26 | 10-26 | 10-26 | 10-26 | 12-26 |
| | | 31 | 11-31 | 11-31 | 11-31 | 11-31 | 11-31 | 13-31 |
| | | 37 | 12-37 | 13-37 | 12-37 | 12-37 | 12-37 | 15-37 |
| | | 55 | Not Avail. | 16-55 | 14-55 | 14-55 | 14-55 | 18-55 |
| | | 85 | Not Avail. | 17-85 | 15-85 | Not Avail. | Not Avail. | 19-85 |
| | | 100 | Not Avail. | 19-100 | 19-100 | Not Avail. | Not Avail. | 21-100 |
| | | 130 | Not Avail. | 21-130 | 21-130 | Not Avail. | Not Avail. | 23-130 |
| **Size #20HD Contacts** #20-#24 AWG | | 3 | 6-23 | 6-23 | 6-23 | 6-23 | 6-23 | 8-23 |
| | | 5 | 7-25 | 7-25 | 7-25 | 7-25 | 7-25 | 9-25 |
| | | 8 | 8-28 | 8-28 | 8-28 | 8-28 | 8-28 | 10-28 |
| | | 10 | 9-210 | 9-210 | 9-210 | 9-210 | 9-210 | 11-210 |
| | | 20 | 12-220 | 13-220 | 12-220 | 12-220 | 12-220 | 15-220 |
| | | 35 | Not Avail. | 16-235 | 14-235 | 14-235 | 14-235 | 18-235 |
| | | 41 | Not Avail. | 17-241 | 15-241 | Not Avail. | Not Avail. | 19-241 |
| | | 55 | Not Avail. | 19-255 | 19-255 | Not Avail. | Not Avail. | 19-255 |
| | | 69 | Not Avail. | 21-269 | 21-269 | Not Avail. | Not Avail. | 23-269 |
| **Size #16 Contacts** #16-#20 AWG | | 1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 8-1 |
| | | 2 | 8-2 | 8-2 | 8-2 | 8-2 | 8-2 | 10-2 |
| | | 4 | 9-4 | 9-4 | 9-4 | 9-4 | 9-4 | 11-4 |
| | | 5 | 10-5 | 10-5 | 10-5 | 10-5 | 10-5 | 12-5 |
| | | 7 | 12-7 | 13-7 | 12-7 | 12-7 | 12-7 | 15-7 |
| | | 12 | Not Avail. | 16-12 | 14-12 | 14-12 | 14-12 | 18-12 |
| | | 14 | Not Avail. | 17-14 | 15-14 | Not Avail. | Not Avail. | 19-14 |
| | | 19 | Not Avail. | 19-19 | 19-19 | Not Avail. | Not Avail. | 21-19 |
| | | 22 | Not Avail. | 21-22 | 21-22 | Not Avail. | Not Avail. | 23-22 |
| **Size #12 Contacts** #12-#14 AWG | | 1 | 7-1 | 7-1 | 7-1 | 7-1 | 7-1 | 9-1 |
| | | 2 | 10-2 | 10-2 | 10-2 | 10-2 | 10-2 | 12-2 |
| | | 2 | 12-2 | 13-2 | 12-2 | 12-2 | 12-2 | 15-2 |
| | | 3 | 12-3 | 13-3 | 12-3 | 12-3 | 12-3 | 15-3 |
| | | 5 | Not Avail. | 16-5 | 14-5 | 14-5 | 14-5 | 18-5 |
| | | 7 | Not Avail. | 17-7 | 15-7 | Not Avail. | Not Avail. | 19-7 |
| | | 12 | Not Avail. | 21-12 | 21-12 | Not Avail. | Not Avail. | 23-12 |
| **Size #8 Contacts** #8 AWG | | 1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 10-1 |
| | | 2 | Not Avail. | 16-2 | 14-2 | 14-2 | 14-2 | 18-2 |
| | | 3 | Not Avail. | 17-3 | 15-3 | Not Avail. | Not Avail. | 19-3 |
| | | 4 | Not Avail. | 19-4 | 19-4 | Not Avail. | Not Avail. | 21-4 |
| | | 5 | Not Avail. | 21-5 | 21-5 | Not Avail. | Not Avail. | 23-5 |

## SERIES 80 MIGHTY MOUSE COMBO ARRANGEMENTS

| | Contact Size and Qty | | | | | Contact Arrangement | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | #23 | #20 | #20HD | #16 | #12 | Series 800 | Series 801 | Series 802 | Series 803 | Series 804 | Series 805 |
| **Contact Arrangements with Mixed Size (Combo) Layouts** | 4 | 2 | | | | 8-200 | 8-200 | 8-200 | 8-200 | 8-200 | 10-200 |
| | 8 | 2 | | | | 9-201 | 9-201 | 9-201 | 9-201 | 9-201 | 11-201 |
| | 4 | | | 2 | | 9-200 | 9-200 | 9-200 | 9-200 | 9-200 | 11-200 |
| | 8 | | | 2 | | 10-202 | 10-202 | 10-202 | 10-202 | 10-202 | 12-202 |
| | 4 | | | | 2 | 10-201 | 10-201 | 10-201 | 10-201 | 10-201 | 12-201 |
| | 6 | | | | 2 | 12-200 | 13-200 | 12-200 | 12-200 | 12-200 | 15-200 |
| | 10 | | | | 2 | 12-201 | 13-201 | 12-201 | 12-201 | 12-201 | 15-201 |
| | 12 | | | | 1 | 10-200 | 10-200 | 10-200 | 10-200 | 10-200 | 12-200 |

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# Series 80 Mighty Mouse Contact Arrangements

## Mating Face View of Pin Connector (socket connector numbers are reversed)

Contact Legend
#23 ∘ #20HD ◓ #20 ● #16 ◒ #12 ⊕

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Series 800, 801, 802, 803, 804 | 5-3 | 6-1 | 6-23 | 6-4 | 6-6 | 6-7 | 7-1 | 7-25 |
| Series 805 | Not Avail. | 8-1 | 8-23 | 8-4 | 8-6 | 8-7 | 9-1 | 9-25 |
| No. of Contacts | 3 | 1 | 3 | 4 | 6 | 7 | 1 | 5 |
| Contact Size | #23 | #16 | #20HD | #23 | #23 | #23 | #12 | #20HD |
| DWV Voltage (VAC) | 500 | 1800 | 750 | 500 | 500 | 500 | 1800 | 750 |
| Current Rating (Amps) | 5 | 13 | 7.5 | 5 | 5 | 5 | 23 | 7.5 |

Contact Legend
#23 ∘ #20HD ◓ #20 ● #16 ◒ ⊕ #12 ● #8

| | | | | | | |
|---|---|---|---|---|---|---|
| Series 800, 801, 802, 803, 804 | 7-10 | 8-1 | 8-2 | 8-200 | 8-28 | 8-13 |
| Series 805 | 9-10 | 10-1 | 10-2 | 10-200 | 10-28 | 10-13 |
| No. of Contacts | 10 | 1 | 2 | 2 4 | 8 | 13 |
| Contact Size | #23 | #8 | #16 | #20 #23 | #20HD | #23 |
| DWV Voltage (VAC) | 500 | 1800 | 1800 | 1000 500 | 750 | 500 |
| Current Rating (Amps) | 5 | 46 | 13 | 7 5 | 7.5 | 5 |

Contact Legend
#23 ∘ #20HD ◓ #20 ● #16 ◒ #12 ⊕

| | | | | | |
|---|---|---|---|---|---|
| Series 800, 801, 802, 803, 804 | 9-4 | 9-200 | 9-201 | 9-210 | 9-19 |
| Series 805 | 11-4 | 11-200 | 11-201 | 11-210 | 11-19 |
| No. of Contacts | 4 | 2 4 | 2 8 | 10 | 19 |
| Contact Size | #16 | #16 #23 | #20 #23 | #20HD | #23 |
| DWV Voltage (VAC) | 1800 | 1800 500 | 1000 500 | 750 | 500 |
| Current Rating (Amps) | 13 | 13 5 | 7.5 5 | 7.5 | 5 |

Contact Legend
#23 ∘ #20HD ◓ #20 ● #16 ◒ #12 ⊕

| | | | | | |
|---|---|---|---|---|---|
| Series 800, 801, 802, 803, 804 | 10-2 | 10-5 | 10-201 | 10-202 | 10-200 |
| Series 805 | 12-2 | 12-5 | 12-201 | 12-202 | 12-200 |
| No. of Contacts | 2 | 5 | 2 4 | 2 8 | 1 12 |
| Contact Size | #12 | #16 | #12 #23 | #16 #23 | #12 #23 |
| DWV Voltage (VAC) | 1800 | 1800 | 1800 500 | 1800 500 | 1800 500 |
| Current Rating (Amps) | 23 | 13 | 23 5 | 13 5 | 23 5 |

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## Mating Face View of Pin Connector (socket connector numbers are reversed)

Contact Legend
#23
#20HD
#20
#16
#12

| | | | | | |
|---|---|---|---|---|---|
| Series 800, 802, 803, 804 | 10-26 | 11-31 | 12-2 | 12-3 | 12-7 |
| Series 801 | 10-26 | 11-31 | 13-2 | 13-3 | 13-7 |
| Series 805 | 12-26 | 13-31 | 15-2 | 15-3 | 15-7 |
| No. of Contacts | 26 | 31 | 2 | 3 | 7 |
| Contact Size | #23 | #23 | #12 | #12 | #16 |
| DWV Voltage (VAC) | 500 | 500 | 1800 | 1800 | 1800 |
| Current Rating (Amps) | 5 | 5 | 23 | 23 | 13 |

Contact Legend
#23 #20HD #20 #16
#12 #8

| | | | | | |
|---|---|---|---|---|---|
| Series 800 | 12-200 | 12-201 | 12-220 | 12-37 | Not Avail. |
| Series 802, 803, 804 | 12-200 | 12-201 | 12-220 | 12-37 | 14-2 |
| Series 801 | 13-200 | 13-201 | 13-220 | 13-37 | 16-2 |
| Series 805 | 15-200 | 15-201 | 15-220 | 15-37 | 18-2 |
| No. of Contacts | 2 6 | 2 10 | 20 | 37 | 2 |
| Contact Size | #12 #23 | #12 #23 | #20HD | #23 | #8 |
| DWV Voltage (VAC) | 1800 500 | 1800 500 | 750 | 500 | 1800 |
| Current Rating (Amps) | 23 5 | 23 5 | 7.5 | 5 | 46 |

Contact Legend
#23
#20HD
#20
#16
#12

| | | | | |
|---|---|---|---|---|
| Series 802, 803, 804 | 14-5 | 14-12 | 14-235 | 14-55 |
| Series 801 | 16-5 | 16-12 | 16-235 | 16-55 |
| Series 805 | 18-5 | 18-12 | 18-235 | 18-55 |
| No. of Contacts | 5 | 12 | 35 | 55 |
| Contact Size | #12 | #16 | #20HD | #23 |
| DWV Voltage (VAC) | 1800 | 1800 | 750 | 500 |
| Current Rating (Amps) | 23 | 13 | 7.5 | 5 |

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# Series 80 Mighty Mouse Contact Arrangements

## Mating Face View of Pin Connector (socket connector numbers are reversed)

Contact Legend
#23
#20HD
#20
#16
#12
#8

| | | | |
|---|---|---|---|
| Series 801 | 17-3 | 17-7 | 17-14 |
| Series 802 | 15-3 | 15-7 | 15-14 |
| Series 805 | 19-3 | 19-7 | 19-14 |
| No. of Contacts | 3 | 7 | 14 |
| Contact Size | #8 | #12 | #16 |
| DWV Voltage (VAC) | 1800 | 1800 | 1800 |
| Current Rating (Amps) | 46 | 23 | 13 |

Contact Legend
#23
#20HD
#20
#16
#12
#8

| | | | |
|---|---|---|---|
| Series 801 | 17-241 | 17-85 | 19-4 |
| Series 802 | 15-241 | 15-85 | 19-4 |
| Series 805 | 19-241 | 19-85 | 21-4 |
| No. of Contacts | 41 | 85 | 4 |
| Contact Size | #20HD | #23 | #8 |
| DWV Voltage (VAC) | 750 | 500 | 1800 |
| Current Rating (Amps) | 7.5 | 5 | 46 |

Contact Legend
#23
#20HD
#20
#16
#12
#8

| | | | |
|---|---|---|---|
| Series 801, 802 | 19-19 | 19-255 | 19-100 |
| Series 805 | 21-19 | 21-255 | 21-100 |
| No. of Contacts | 19 | 55 | 100 |
| Contact Size | #16 | #20HD | #23 |
| DWV Voltage (VAC) | 1800 | 750 | 500 |
| Current Rating (Amps) | 13 | 7.5 | 5 |

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## Mating Face View of Pin Connector (socket connector numbers are reversed)

Contact Legend
#23
#20HD
#20
#16
#12
#8

| | | | |
|---|---|---|---|
| Series 801, 802 | 21-5 | 21-12 | 21-22 |
| Series 805 | 23-5 | 23-12 | 23-22 |
| No. of Contacts | 5 | 12 | 22 |
| Contact Size | #8 | #12 | #16 |
| DWV Voltage (VAC) | 1800 | 1800 | 1800 |
| Current Rating (Amps) | 46 | 23 | 13 |

Contact Legend
#23
#20HD
#20
#16
#12
#8

| | | |
|---|---|---|
| Series 801, 802 | 21-269 | 21-130 |
| Series 805 | 23-269 | 23-130 |
| No. of Contacts | 69 | 130 |
| Contact Size | #20HD | #23 |
| DWV Voltage (VAC) | 750 | 500 |
| Current Rating (Amps) | 7.5 | 5 |

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# Series 80 Mighty Mouse Technical Reference
# Straight PCB Footprints

## Component Mounting Side of PCB

| | | |
|---|---|---|
| <br>**Insert Arrangement 5-3**<br>3 #23 Contacts<br>.022 (0.56) Max. Dia. Tail | <br>**Pin Connector** | <br>**Socket Connector** |
| <br>**Insert Arrangement 6-23, 8-23**<br>3 #20HD Contacts<br>.028 (0.56) Max. Dia. Tail | <br>**Pin Connector** | <br>**Socket Connector** |
| <br>**Insert Arrangement 6-4, 8-4**<br>4 #23 Contacts<br>.022 (0.56) Max. Dia. Tail | <br>**Pin Connector** | <br>**Socket Connector** |
| <br>**Insert Arrangement 6-6, 8-6**<br>6 #23 Contacts<br>.022 (0.56) Max. Dia. Tail | <br>**Pin Connector** | <br>**Socket Connector** |
| <br>**Insert Arrangement 6-7, 8-7**<br>7 #23 Contacts<br>.022 (0.56) Max. Dia. Tail | <br>**Pin Connector** | <br>**Socket Connector** |
| <br>**Insert Arrangement 7-10, 9-10**<br>10 #23 Contacts<br>.022 (0.56) Max. Dia. Tail | <br>**Pin Connector** | <br>**Socket Connector** |

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## Component Mounting Side of PCB

**Insert Arrangement**
**7-25, 9-25**
5 #20HD Contacts
.028 (0.71) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**8-2, 10-2**
2 #16 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**8-28, 10-28**
8 #20HD Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**8-200, 10-200**
2 #20 Contacts
4 #23 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**8-13, 10-13**
13 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**9-4, 11-4**
4 #16 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**9-200, 11-200**
4 #23 Contacts
2 #16 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**9-201, 11-201**
2 #20 Contacts
8 #23 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**9-210, 11-210**
10 #20HD Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**9-19, 11-19**
19 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**10-2, 12-2**
2 #12 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**10-5, 12-5**
5 #16 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**10-201, 12-201**
2 #12 Contacts
4 #23 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**10-202, 12-202**
2 #16 Contacts
8 #23 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**10-200, 12-200**
1 #12 Contact
12 #23 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**10-26, 12-26**
26 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**11-31, 13-31**
31 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**12-2, 13-2, 15-2**
2 #12 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**12-3, 13-3, 15-3**
3 #12 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**12-7, 13-7, 15-7**
7 #16 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**12-200, 13-200, 15-200**
2 #12 Contacts
6 #23 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**12-220, 13-220, 15-220**
20 #20HD Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**12-37, 13-37, 15-37**
37 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**12-201, 13-201, 15-201**
2 #12 Contacts
10 #23 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**14-5, 16-5, 18-5**
5 #12 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**14-12, 16-12, 18-12**
12 #16 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**14-55, 16-55, 18-55**
55 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**14-235, 16-235, 18-235**
35 #20HD Contacts
.028 (0.71) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

| Pin No. | X In. | X mm. | Y In. | Y mm. | Pin No. | X In. | X mm. | Y In. | Y mm. | Pin No. | X In. | X mm. | Y In. | Y mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | -.053 | -1.35 | .301 | 7.65 | **13** | -.234 | -5.94 | -.196 | -4.98 | **25** | .000 | 0.00 | -.209 | -5.31 |
| **2** | .053 | 1.35 | .301 | 7.65 | **14** | -.287 | -7.29 | -.104 | -2.64 | **26** | -.100 | -2.54 | -.172 | -4.37 |
| **3** | .153 | 3.89 | .264 | 6.71 | **15** | -.305 | -7.75 | .000 | 0.00 | **27** | -.181 | -4.60 | -.104 | -2.64 |
| **4** | .234 | 5.94 | .196 | 4.98 | **16** | -.287 | 7.29 | .104 | 2.64 | **28** | -.199 | -5.05 | .000 | 0.00 |
| **5** | .287 | 7.29 | .104 | 2.64 | **17** | -.234 | -5.94 | .196 | 4.98 | **29** | -.181 | -4.60 | .104 | 2.64 |
| **6** | .305 | 7.75 | .000 | 0.00 | **18** | -.153 | -3.89 | .264 | 6.71 | **30** | -.100 | -2.54 | .172 | 4.37 |
| **7** | .287 | 7.29 | -.104 | -2.64 | **19** | .000 | 0.00 | .209 | 5.31 | **31** | -.053 | -1.35 | .073 | 1.85 |
| **8** | .234 | 5.94 | -.196 | -4.98 | **20** | .100 | 2.54 | .172 | 4.37 | **32** | .053 | 1.35 | .073 | 1.85 |
| **9** | .153 | 3.89 | -.264 | -6.71 | **21** | .181 | 4.60 | .104 | 2.64 | **33** | .086 | 2.18 | -.028 | -0.71 |
| **10** | .053 | 1.35 | -.301 | -7.65 | **22** | .199 | 5.05 | .000 | 0.00 | **34** | .000 | 0.00 | -.090 | -2.29 |
| **11** | -.053 | -1.35 | -.301 | -7.65 | **23** | .181 | 4.60 | -.104 | -2.64 | **35** | -.086 | -2.18 | -.028 | -0.71 |
| **12** | -.153 | -3.89 | -.264 | -6.71 | **24** | .100 | 2.54 | -.172 | -4.37 | | | | | |

**Insert Arrangement**
**15-14, 17-14, 19-14**
14 #16 Contacts

**Pin Connector**

**Socket Connector**

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**Insert Arrangement**
**15-7, 17-7, 19-7**
7 #12 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**15-241, 16-241, 18-241**
41 #20HD Contacts
.028 (0.71) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

| Pin No. | X In. | X mm. | Y In. | Y mm. | Pin No. | X In. | X mm. | Y In. | Y mm. | Pin No. | X In. | X mm. | Y In. | Y mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | -.053 | -1.35 | .335 | 8.51 | **15** | -.302 | -7.67 | -.154 | -3.91 | **29** | -.151 | -3.84 | -.171 | -4.34 |
| **2** | .053 | 1.35 | .335 | 8.51 | **16** | -.335 | -8.51 | -.053 | -1.35 | **30** | -.213 | -5.41 | -.081 | -2.06 |
| **3** | .154 | 3.91 | .302 | 7.67 | **17** | -.335 | -8.51 | .053 | 1.35 | **31** | -.226 | -5.74 | .028 | 0.71 |
| **4** | .240 | 6.10 | .240 | 6.10 | **18** | -.302 | -7.67 | .154 | 3.91 | **32** | -.188 | -4.78 | .130 | 3.30 |
| **5** | .302 | 7.67 | .154 | 3.91 | **19** | -.240 | -6.10 | .240 | 6.10 | **33** | -.106 | -2.69 | .202 | 5.13 |
| **6** | .335 | 8.51 | .053 | 1.35 | **20** | -.154 | -3.91 | .302 | 7.67 | **34** | -.053 | -1.35 | .110 | 2.79 |
| **7** | .335 | 8.51 | -.053 | -1.35 | **21** | .000 | 0.00 | .228 | 5.79 | **35** | .053 | 1.35 | .110 | 2.79 |
| **8** | .302 | 7.67 | -.154 | -3.91 | **22** | .106 | 2.69 | .202 | 5.13 | **36** | .119 | 3.02 | .027 | 0.69 |
| **9** | .240 | 6.10 | -.240 | -6.10 | **23** | .188 | 4.78 | .130 | 3.30 | **37** | .096 | 2.44 | -.076 | -1.93 |
| **10** | .154 | 3.91 | -.302 | -7.67 | **24** | .226 | 5.74 | .028 | 0.71 | **38** | .000 | 0.00 | -.122 | -3.10 |
| **11** | .053 | 1.35 | -.335 | -8.51 | **25** | .213 | 5.41 | -.081 | -2.06 | **39** | -.096 | -2.44 | -.076 | -1.93 |
| **12** | -.053 | -1.35 | -.335 | -8.51 | **26** | .151 | 3.84 | -.171 | -4.34 | **40** | -.119 | -3.02 | .027 | 0.69 |
| **13** | -.154 | -3.91 | -.302 | -7.67 | **27** | .055 | 1.40 | -.222 | -5.64 | **41** | .000 | 0.00 | .000 | 0.00 |
| **14** | -.240 | -6.10 | -.240 | -6.10 | **28** | -.055 | -1.40 | -.222 | -5.64 | | | | | |

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## Component Mounting Side of PCB

**Pin Connector**

**Insert Arrangement**
**15-85, 17-85, 19-85**
85 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**19-19, 21-19**
19 #16 Contacts

**Pin Connector**

**Socket Connector**

**Insert Arrangement**
**19-255, 21-255**
55 #20HD Contacts
.028 (0.71) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**19-100, 21-100**
100 #23 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**21-12, 23-12**
12 #12 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

**Insert Arrangement**
**21-22, 23-22**
22 #16 Contacts

**Pin Connector**

**Socket Connector**

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## Component Mounting Side of PCB

Pin Connector

Socket Connector

**Insert Arrangement**
**21-269, 23-269**
69 #20HD Contacts
.028 (0.71) Max. Dia. Tail

| Pin No. | X In. | X mm. | Y In. | Y mm. | Pin No. | X In. | X mm. | Y In. | Y mm. | Pin No. | X In. | X mm. | Y In. | Y mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | -.159 | -4.04 | .418 | 10.62 | **24** | -.379 | -9.63 | .198 | 5.03 | **47** | -.053 | -1.35 | .234 | 5.94 |
| **2** | -.053 | -1.35 | .418 | 10.62 | **25** | -.326 | -8.28 | .290 | 7.37 | **48** | .053 | 1.35 | .234 | 5.94 |
| **3** | .053 | 1.35 | .418 | 10.62 | **26** | -.251 | -6.38 | .365 | 9.27 | **49** | .145 | 3.68 | .181 | 4.60 |
| **4** | .159 | 4.04 | .418 | 10.62 | **27** | -.106 | -2.69 | .326 | 8.28 | **50** | .220 | 5.59 | .106 | 2.69 |
| **5** | .251 | 6.38 | .365 | 9.27 | **28** | .000 | 0.00 | .326 | 8.28 | **51** | .220 | 5.59 | .000 | 0.00 |
| **6** | .326 | 8.28 | .290 | 7.37 | **29** | .106 | -2.69 | .326 | 8.28 | **52** | .220 | 5.59 | -.106 | -2.69 |
| **7** | .379 | 9.63 | .198 | 5.03 | **30** | .198 | 5.03 | .273 | 6.93 | **53** | .145 | 3.68 | -.181 | -4.60 |
| **8** | .432 | 10.97 | .106 | 2.69 | **31** | .273 | 6.93 | .198 | 5.03 | **54** | .053 | 1.35 | -.234 | -5.94 |
| **9** | .432 | 10.97 | .000 | 0.00 | **32** | .326 | 8.28 | .106 | 2.69 | **55** | -.053 | -1.35 | -.234 | -5.94 |
| **10** | .432 | 10.97 | -.106 | -2.69 | **33** | .326 | 8.28 | .000 | 0.00 | **56** | -.145 | -3.68 | -.181 | -4.60 |
| **11** | .379 | 9.63 | -.198 | -5.03 | **34** | .326 | 8.28 | -.106 | -2.69 | **57** | -.220 | -5.59 | -.106 | -2.69 |
| **12** | .326 | 8.28 | -.290 | -7.37 | **35** | .273 | 6.93 | -.198 | -5.03 | **58** | .220 | -5.59 | .000 | 0.00 |
| **13** | .251 | 6.38 | -.365 | -9.27 | **36** | .198 | 5.03 | -.273 | -6.93 | **59** | -.220 | -5.59 | .106 | 2.69 |
| **14** | .159 | 4.04 | -.418 | -10.62 | **37** | .106 | 2.69 | -.326 | -8.28 | **60** | -.145 | -3.68 | .181 | 4.60 |
| **15** | .053 | 1.35 | -.418 | -10.62 | **38** | .000 | 0.00 | -.326 | -8.28 | **61** | -.053 | -1.35 | .128 | 3.25 |
| **16** | -.053 | -1.35 | -.418 | -10.62 | **39** | -.106 | -2.69 | -.326 | -8.28 | **62** | .053 | 1.35 | .128 | 3.25 |
| **17** | -.159 | -4.04 | -.418 | -10.62 | **40** | -.198 | -5.03 | -.273 | -6.93 | **63** | .128 | 3.25 | .053 | 1.35 |
| **18** | -.251 | -6.38 | -.365 | -9.27 | **41** | -.273 | -6.93 | -.198 | -5.03 | **64** | .128 | 3.25 | -.053 | -1.35 |
| **19** | -.326 | -8.28 | -.290 | -7.37 | **42** | -.326 | -8.28 | -.106 | -2.69 | **65** | .053 | 1.35 | -.128 | -3.25 |
| **20** | -.379 | -9.63 | -.198 | -5.03 | **43** | -.326 | -8.28 | .000 | 0.00 | **66** | -.053 | -1.35 | -.128 | -3.25 |
| **21** | -.432 | -10.97 | -.106 | -2.69 | **44** | -.326 | -8.28 | .106 | 2.69 | **67** | -.128 | -3.25 | -.053 | -1.35 |
| **22** | -.432 | -10.97 | .000 | 0.00 | **45** | -.273 | -6.93 | .198 | 5.03 | **68** | -.128 | -3.25 | .053 | 1.35 |
| **23** | -.432 | -10.97 | .106 | 2.69 | **46** | -.198 | -5.03 | .273 | 6.93 | **69** | .000 | 0.00 | .000 | 0.00 |

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## Component Mounting Side of PCB

**Insert Arrangement**
**21-130, 23-130**
130 #23 Contacts
.022 (0.56) Max. Dia. Tail

**Pin Connector**

**Socket Connector**

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## SERIES 800 RECOMMENDED TORQUE VALUES

| Shell Size Series 800 | Coupling Torque | | | | Jam Nut Tightening | | | | Backshell Tightening | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In-Lbs. | | N-m | | In-Lbs. | | N-m | | In-Lbs. | | N-m | |
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| **5** | 13 | 17 | 1.5 | 1.9 | 20 | 25 | 2.2 | 2.8 | 13 | 17 | 1.5 | 1.9 |
| **6** | 18 | 22 | 2.0 | 2.5 | 20 | 25 | 2.2 | 2.8 | 18 | 22 | 2.0 | 2.5 |
| **7** | 20 | 25 | 2.3 | 2.8 | 20 | 25 | 2.2 | 2.8 | 30 | 40 | 3.4 | 4.5 |
| **8** | 30 | 40 | 3.4 | 4.5 | 20 | 25 | 2.2 | 2.8 | 30 | 40 | 3.4 | 4.5 |
| **9** | 30 | 40 | 3.4 | 4.5 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| **10** | 35 | 45 | 4.0 | 5.1 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| **12** | 35 | 45 | 4.0 | 5.1 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |

## SERIES 801, 802, 803, 804, 805 RECOMMENDED TORQUE VALUES

| Shell Size Series 801, 802, 803, 804 | Shell Size Series 805 | Coupling Torque | | | | Jam Nut Tightening | | | | Backshell Tightening | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In-Lbs. | | N-m | | In-Lbs. | | N-m | | In-Lbs. | | N-m | |
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| **5** | **-** | 25 | 35 | 2.8 | 4.0 | 20 | 25 | 2.2 | 2.8 | 13 | 17 | 1.5 | 1.9 |
| **6** | **8** | 35 | 40 | 4.0 | 4.5 | 20 | 25 | 2.2 | 2.8 | 18 | 22 | 2.0 | 2.5 |
| **7** | **9** | 35 | 40 | 4.0 | 4.5 | 20 | 25 | 2.2 | 2.8 | 30 | 40 | 3.4 | 4.5 |
| **8** | **10** | 40 | 50 | 4.5 | 5.7 | 20 | 25 | 2.2 | 2.8 | 30 | 40 | 3.4 | 4.5 |
| **9** | **11** | 40 | 50 | 4.5 | 5.7 | 20 | 25 | 2.2 | 2.8 | 35 | 45 | 4.0 | 5.1 |
| **10** | **12** | 50 | 60 | 5.7 | 6.8 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| **12, 13** | **15** | 50 | 60 | 5.7 | 6.8 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| **14, 16** | **18** | 55 | 65 | 6.2 | 7.3 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| **15, 17** | **19** | 55 | 65 | 6.2 | 7.3 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| **21** | **23** | 55 | 65 | 6.2 | 7.3 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |

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# Series 80 Mighty Mouse Technical Reference
# Product Specification Summary
## Performance Specs, Materials and Finishes



| PERFORMANCE SPECIFICATIONS | |
|---|---|
| Current Rating (Maximum) | Size #23 Contact: 5 A.<br>Size #20 contact: 7.5 A.<br>Size #16 contact: 13 A.<br>Size #12 contact: 23 A. |
| Test Voltage (Dielectric Withstanding Voltage) Mated Connectors | Size #23 contacts: 500 VAC RMS sea level, 100 VAC RMS 70,000 feet<br>Size #20 contacts: 1800 VAC RMS sea level, 325 VAC RMS 70,000 feet<br>Size #20HD contacts: 750 VAC RMS sea level, 150 VAC RMS 70,000 feet<br>Size #16 contacts: 1800 VAC RMS sea level, 1000 VAC RMS 70,000 feet<br>Size #12 contacts: 1800 VAC RMS sea level, 1000 VAC RMS 70,000 feet |
| Insulation Resistance | 5000 megohms minimum |
| Contact Resistance | Size #23 Contact: 73 millivolt drop at 5 A. test current<br>Size #20 contact: 55 millivolt drop at 7.5 A. test current<br>Size #16 contact: 49 millivolt drop at 13 A. test current<br>Size #12 contact: 42 millivolt drop at 23 A. test current |
| Operating Temperature | -55° C. to +150° C. |
| Immersion, Mated | 1 meter water immersion for 1 hour (Series 803 splashproof only) |
| Shock | 300 g |
| Vibration | 37 g |
| Magnetic Permeability | 2.0 µ maximum |
| Please refer to the comprehensive Series 80 Product Specification for additional parameters and test methods. Filter and hermetic versions have performance specifications which differ from this information. | |

| MATERIALS AND FINISHES (1) | |
|---|---|
| Aluminum Shell, Barrel, and Coupling Nut | Al uminum alloy 6061 T6 |
| Stainless Steel Shell, Barrel Coupling and Jam Nut | Stainless steel per AMS-QQ-S-763 |
| Front and Rear Insulators | Glass-filled liquid crystal polymer (LCP) in accordance with MIL-M-24519, Type GLCP-30F |
| Contact Retention Clip | Beryllium copper, heat-treated, unplated |
| Grommet, Peripheral Seal and Interfacial Seal | Blended elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988 |
| Hermetic Insert | Vitreous glass |
| Contacts | Copper alloy, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches |
| Pin Contact, Hermetic | Nickel-iron alloy per ASTM F30 (Alloy 52),50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches |
| Socket Contact Hood | Stainless steel, passivated per AMS-QQ-P-35 |
| Adhesives | Silicone and epoxy |
| Potting Compound, PCB and Solder Cup Versions | Environmental and Hermetic Connectors: High-strength epoxy, Hysol EE4215. Filter Connectors: Stycast 2850FT/Catalyst 11 thermally conductive epoxy encapsulant. |
| Filter Element | Multilayer Ceramic Planar Array, ferrite inductors |
| (1) Refer to Section E for Series 802 “Aqua Mouse” matrerials and finishes. | |

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| DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|
| **ELECTRICAL** | | |
| Contact resistance | SAE AS39029 Table V<br>**Wire Size** / **Test Current** / **Max Voltage Drop**<br>12 / 23 / 42<br>14 / 17 / 40<br>16 / 13 / 49<br>20 / 7.5 / 55<br>22 / 5 / 73<br>24 / 3 / 45<br>26 / 2 / 52<br>28 / 1.5 / 54 | EIA-364-06<br>IEC 60512-2-1<br>Test current in amperes. Voltage drop in millivolts. Silver-coated copper wire, +25°C. |
| Low level contact resistance | **Wire Size** / **Max. Milliohms**<br>16 / 5<br>20 / 9<br>22 / 15<br>24 / 20<br>26 / 31<br>28 / 50 | EIA-364-23<br>100 milliamperes maximum and 20 millivolts maximum open circuit voltage |
| Insulation resistance | 5000 megohms minimum | EIA-364-21<br>IEC-60512-3-1<br>500 volts DC ± 50 volts. Test between adjacent contacts and contacts to shell. |
| Dielectric withstanding voltage, sea level | No breakdown or flashover<br>#23 contacts 500 volts<br>#20HD contacts 750 volts<br>#16 contacts 1800 volts<br>#12 contacts 1800 volts | EIA-364-20<br>IEC-60512-4-1<br>AC rms 60 Hz. One minute dwell. Unmated or mated |
| Dielectric withstanding voltage, 70,000 feet altitude | No breakdown or flashover<br>#23 contacts 100 volts<br>#20HD contacts 150 volts<br>#16 contacts 1000 volts<br>#12 contacts 1000 volts | EIA-364-20<br>IEC-60512-4-1<br>AC rms 60 Hz. One minute dwell. mated condition |
| Current carrying capacity | **Contact Size** / **Max Current**<br>12 / 23<br>16 / 13<br>20 / 7.5<br>23 / 5 | EIA-364-70 Method 1<br>IEC-60512-5 Test 9b |

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# Series 80 Mighty Mouse Technical Reference
## Complete Product Specification

<table>
<tr><th>DESCRIPTION</th><th>REQUIREMENT</th><th>PROCEDURE</th></tr>
<tr><td>Shell-to-shell conductivity, Initial</td><td>The maximum voltage drop across a mated pair shall not exceed the values shown.<br><table><tr><th>Series</th><th>Voltage Drop</th></tr><tr><td>800</td><td>10</td></tr><tr><td>801</td><td>10</td></tr><tr><td>802</td><td>10</td></tr><tr><td>803</td><td>100</td></tr><tr><td>804</td><td>2</td></tr><tr><td>805</td><td>2</td></tr></table></td><td>EIA-364-83<br>IEC-60512-2-6<br>Electroless nickel plated connectors.</td></tr>
<tr><td>Shell-to-shell conductivity, after conditioning (48 hours salt spray)</td><td>The maximum voltage drop across a mated pair shall not exceed the values shown.<br><table><tr><th>Series</th><th>Voltage Drop</th></tr><tr><td>800</td><td>20</td></tr><tr><td>801</td><td>20</td></tr><tr><td>802</td><td>20</td></tr><tr><td>803</td><td>200</td></tr><tr><td>804</td><td>4</td></tr><tr><td>805</td><td>4</td></tr></table></td><td>EIA-364-83<br>IEC-60512-2-6<br>Electroless nickel plated connectors.</td></tr>
<tr><td>Shielding effectiveness, low frequency (100MHz-1000 MHz)</td><td><table><tr><th></th><th colspan="2">dB Min. Attenuation</th></tr><tr><th>Frequency</th><th>Series 800, 801, 802, 804, 805</th><th>Series 803</th></tr><tr><td>100 MHz</td><td>75</td><td>60</td></tr><tr><td>200 MHz</td><td>70</td><td>55</td></tr><tr><td>300 MHz</td><td>65</td><td>55</td></tr><tr><td>400 MHz</td><td>63</td><td>50</td></tr><tr><td>800 MHz</td><td>58</td><td>45</td></tr><tr><td>1000 MHz</td><td>55</td><td>40</td></tr></table></td><td>MIL-DTL-38999 para. 4.5.28.1<br>Electroless nickel plated connectors</td></tr>
<tr><td>Shielding effectiveness, high frequency (1Ghz-10GHz)</td><td><table><tr><th></th><th colspan="2">dB Min. Attenuation</th></tr><tr><th>Frequency</th><th>Series 800, 801, 802, 804</th><th>Series 805</th></tr><tr><td>1 GHz</td><td>55</td><td>85</td></tr><tr><td>3 GHz</td><td>50</td><td>69</td></tr><tr><td>5 GHz</td><td>45</td><td>66</td></tr><tr><td>19 GHz</td><td>40</td><td>65</td></tr></table></td><td>EIA-364-66<br>IEC-60512-23-3<br>Electroless nickel plated connectors</td></tr>
</table>

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| DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|
| | **MECHANICAL** | |
| Vibration, sine | No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after vibration test. | MIL-STD-202 Method 204, test Condition G<br>30 g's, 3 axes, 4 hours per axis |
| Vibration, random | No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after vibration test. | EIA-364-28 Test Condition V Letter I<br>IEC-60512-6-4<br>100 milliamp test current<br>50- 2,000 Hz<br>37.80 g rms |
| Gunfire vibration | No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after vibration test. | MIL-STD-810F Method 519.5 |
| Mechanical shock | No discontinuity of greater than 1 microsecond, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after shock test. | EIA-364-27 Condition D<br>IEC-60512-6-3<br>3 shocks X 3 axes X 2 directions = 18 shocks 2941 $m/s^2$ (300 g's), 3 ms, half-sine |
| Mechanical durability, at ambient temperature | No deterioration which will adversely affect the connector after 2000 cycles of mating and unmating. Connectors shall meet contact resistance, insulation resistance, shell-to-shell resistance, DWV, and mating and unmating force. | EIA-364-09<br>IEC-60512-5 Test 9a |
| Solderability, PC tail contacts | 95% solder coverage. Smooth, bright and even finish. | EIA-364-52 Category 3<br>IEC-60512-12-1<br>IEC-68-2-20 Test Ta, method 1<br>8 hours steam aging prior to test<br>245° C, 4-5 sec. dwell<br>10X magnification |
| Resistance To Soldering Heat | No damage to connector. Connectors shall meet insulation resistance and waterproof sealing requirements. | EIA-364-56<br>IEC-60512-12-5 Test 12e<br>260° C, 10 seconds (PC tail) |

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# Series 80 Mighty Mouse Technical Reference
## Complete Product Specification

| DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|
| Impact | No impairment of function. Connector shall meet contact resistance, insulation resistance and waterproof sealing. | EIA-364-42<br>IEC-60512-5 test 7b<br>1 meter<br>8 drops |
| Contact retention | **Contact Size / Min. Pounds / Min. Newtons**<br>23 / 6 / 27<br>20 / 15 / 67<br>20HD / 9 / 40<br>16 / 25 / 111<br>12 / 25 / 111 | EIA-364-29 |
| Contact separation force | **Contact Size / Min. Ounces / Min. Newtons**<br>23 / 0.5 / 0.14<br>20 / 0.7 / 0.19<br>16 / 2.0 / 0.56<br>12 / 3.0 / 0.83 | SAE AS39029 |
| Coupling torque | Threaded coupling connector coupling torque shall not exceed the following requirements. | |
| Unmating force (Series 804) | Series 804 quick-disconnect connectors | |

**Coupling torque**

| Shell Size | | Inch Pound |
|---|---|---|
| Series 800, 801 | Series 805 | |
| 5, 6, 7 | 8, 9 | 8 |
| 8,9 | 10, 11 | 9 |
| 10 | 12 | 12 |
| 12, 13 | 15 | 16 |
| 14, 15, | 18 | 28 |
| 16, 17 | 19 | 24 |
| 21 | | 32 |
| | 23 | 36 |

**Unmating force (Series 804)**

| Contact Arrangement | Inch Pound |
|---|---|
| 5-3 | 10.6 |
| 6-4 | 10.8 |
| 6-7 | 11.4 |
| 7-10 | 12.0 |
| 8-13 | 12.6 |
| 9-19 | 13.8 |
| 10-26 | 15.2 |
| 12-37 | 17.4 |
| 14-55 | 21.0 |

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<table>
<tr><th>DESCRIPTION</th><th>REQUIREMENT</th><th>PROCEDURE</th></tr>
<tr><td>Insert retention</td><td>Unmated connectors shall retain their inserts in their proper location in the shell and there shall be no evidence of cracking, breaking, separation from the shell, or loosening of parts.
<table>
<tr><th colspan="3">Shell Size</th><th></th></tr>
<tr><th>Ser. 800, 803, 804</th><th>Ser. 801</th><th>Ser. 805</th><th>Min. Force in Pounds</th></tr>
<tr><td>5</td><td>5</td><td></td><td>25</td></tr>
<tr><td>6</td><td>6</td><td>8</td><td>25</td></tr>
<tr><td>7</td><td>7</td><td>9</td><td>25</td></tr>
<tr><td>8</td><td>8</td><td>10</td><td>25</td></tr>
<tr><td>9</td><td>9</td><td>11</td><td>25</td></tr>
<tr><td>10</td><td>10</td><td>12</td><td>25</td></tr>
<tr><td>12</td><td>13</td><td>15</td><td>25</td></tr>
<tr><td>14</td><td>16</td><td>18</td><td>40</td></tr>
<tr><td>15</td><td>17</td><td>19</td><td>50</td></tr>
<tr><td></td><td>21</td><td>23</td><td>80</td></tr>
</table></td><td>EIA-365-35</td></tr>
<tr><td>Residual magnetism</td><td>2 μ maximum.</td><td>EIA-364-54</td></tr>
<tr><th colspan="3">ENVIRONMENTAL</th></tr>
<tr><td>Operating temperature</td><td>-65° to +150°C</td><td></td></tr>
<tr><td>Water immersion, mated</td><td>No evidence of water penetration into mated connectors. ≥ 100 MΩ insulation resistance.</td><td>MIL-STD-810F Method 512.4<br>1 meter immersion<br>1 hour</td></tr>
<tr><td>Water immersion, open face panel mount receptacles with non-removable printed circuit board or solder cup contacts</td><td>Connectors with waterblock potting process (Glenair Modification Code 518 required).<br>$1 \times 10^{-4}$ cc/second maximum helium leak rate at 1 atmosphere pressure differential following thermal shock conditioning.</td><td>EIA-365-02<br>3 cycles thermal shock<br>-57°C to +71°C<br>75 min. dwell<br>5 minute transfer rate</td></tr>
<tr><td>Humidity, cyclic (damp heat, cyclic) (moisture resistance)</td><td>No deterioration which will adversely affect the connector. 100 megohms minimum insulation resistance during the final cycle. Following the recovery period, connectors shall meet contact resistance, shell-to-shell resistance and DWV requirements.</td><td>EIA-364-31 Condition B Method III<br>IEC-60512-11-12<br>80-98% RH<br>10 cycles (10 days)<br>+25° C to +65° C<br>Step 7b vibration deleted.<br>24 hour recovery period.</td></tr>
</table>

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# Series 80 Mighty Mouse Technical Reference
## Complete Product Specification

| DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|
| 21 day humidity (damp heat, long term) | No deterioration which will adversely affect the connector. Following the drying period, connectors shall meet 100 megohms minimum, contact resistance, shell-to-shell resistance, DWV, mating and unmating requirements. | EIA-364-31 Condition C Method II<br>IEC-60512-11-3 Severity C<br>90-95% RH<br>40° C<br>Apply 100 volts DC during test. 4 hours drying time at ambient temperature prior to final measurements. |
| Thermal shock | No mechanical damage or loosening of parts. Following thermal shock, connector shall meet contact resistance, DWV, insulation resistance and shell-to-shell resistance requirements. | EIA-364-32 Test Condition IV<br>IEC-60512-11-4<br>5 cycles consisting of -65° C 30 minutes, +25° C 5 minutes max., +150° C 30 minutes, +25° C 5 minutes max. |
| Corrosion (salt mist) | No exposure of base metal. Connectors shall meet DWV and contact resistance requirements following the test. | EIA-364-26<br>IEC 60512-11-6<br>5% salt solution<br>35° C<br>Unmated connectors<br>**Code C**: 48 hours<br>**Code M**: 48hours<br>**Code MT**: 500 hours<br>**Code NF**: 500 hours<br>**Code ZN**: 500 hours<br>**Code ZNU**: 500 hours<br>**Code UCR**: 500 hours |
| Sand and dust | Mated connectors shall withstand the effects of blowing sand and dust | MIL-STD-810F, Method 510.4 |
| Fungus | Connector materials shall be fungus inert. | MIL-STD-810F, Method 508.5 |
| Fluid immersion | No visible damage from immersion in various fuels and oils. Connector shall meet coupling torque and dielectric withstanding voltage requirements. | EIA-364-10<br>Unmated connectors |
| Altitude immersion | No evidence of moisture on connector interface or contacts. Connector shall meet dielectric withstanding voltage. | EIA-364-03<br>Wired crimp connectors with supplemental potting. Printed circuit board and solder cup connectors with standard factory-installed potting. |
| Outgassing | The entire connector assembly shall be capable of meeting a maximum Total Mass Loss (TML) of 1% and a Total Collected Volatile Material Loss (TCVML) of 0.1% following additional processing for outgassing control. | ASTM-E595 |

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## Series 80 Connectors for Space Flight

*The small size and reduced weight of the Series 80 connector make it an excellent choice for space instrumentation. Series 80 connectors are available with special screening and outgassing for satellites and space vehicles. This section explains NASA guideline for connector selection, screening and outgassing. This section also explains how to order connectors screened to meet NASA EEE-INST-002.*

### Five things you should know about Series 80 connectors for space flight

1 **Material Selection:** What materials are approved for space-grade connectors? What materials are prohibited? Does the Series 80 connector contain space-approved materials?

2 **Outgassing:** What is outgassing, why is it important, and how does it affect connector selection? Is special processing required to meet outgassing requirements?

3 **Screening:** What is NASA screening and what level of screening is required?

4 **Magnetic permeability:** Are nonmagnetic connectors required?

5 **Cryogenic exposure:** Are these connectors suitable for -200° C. exposure?

### How To Order Space Grade Series 80 Connectors

**Step 1: Find a Standard Part Number**
Electroless nickel plated shells are preferred for space flight. Cadmium plating is prohibited.

**Step 2: Select a NASA Screening Level**
The term "Screening Level" refers to the final inspection procedure.
Level 1 for mission-critical highest reliability
Level 2 for high reliability
Level 3 for standard reliability

**Step 3: Choose Outgassing Processing**
A detailed explanation of outgassing is on the following pages. The fluorosilicone rubber seals commonly used on aerospace-grade connectors such as MIL-DTL-38999 and Series 80 connectors, along with certain bonding agents and inks, do not meet NASA outgassing requirements unless the connector is specially processed. Glenair outgassing tests have shown oven baking or thermal vacuum outgassing processing are sufficient to reduce outgassing levels to NASA standards. Oven baking is more economical than thermal vacuum outgassing.

**Step 4: Select the Mod 429 Code that Matches the Desired Level of Screening and Outgassing**
Use the following table to choose the right modification code. Add the mod code to the connector part number. Example: 801-007-16M6-7PA-***429C***

**Nasa Screening Levels and Modification Codes**

| NASA Screening Level | Special Screening Only | Special Screening Plus Outgassing Processing | |
|---|---|---|---|
| | | **48 Hour Oven Bake** 175° C. | **Thermal Vacuum Outgassing** 24 hrs. 125° C. |
| Level 1 Highest Reliability | Mod 429B | Mod 429J | Mod 429C |
| Level 2 High Reliability | Mod 429 | Mod 429K | Mod 429A |
| Level 3 Standard Reliability | (Use standard part number) | Mod 186 | Mod 186M |

Dimensions in Inches (millimeters) are subject to change without notice.

# Series 80 Mighty Mouse Technical Reference Guidelines for Space-Grade Applications

## Series 80 Connectors for Space Flight

**1 Material Selection**: ***What materials are approved for space flight? What materials are restricted? How to choose the right materials for Series 80 connectors.***

### What materials are approved for space flight?

Section C2 "Connectors and Contacts" of NASA EEE-INST-002 provides guidelines for materials used in connectors for space flight applications. Aluminum is a preferred material for connector components, and electroless nickel is the preferred finish. Beryllium copper is a preferred material for contacts. 50 microinch minimum gold plating is the preferred contact finish. LCP is a preferred material for dielectric insulating materials.

### What materials are prohibited?

100% tin plating shall not be used. Pure tin can grow "whiskers" which can lead to catastrophic electrical short circuits. Silver plating is prohibited because of corrosion concerns. Cadmium is prohibited because it is unstable in vacuum environments.

### Specifying Series 80 connectors for space flight

Standard Series 80 connectors meet NASA guidelines for material selection. Specify "M" for aluminum shells with electroless nickel finish. The table below lists the Series 80 materials.

**SERIES 80 CONNECTOR MATERIALS APPROVED FOR SPACE FLIGHT**

| Component | Material | Notes |
|---|---|---|
| Shells, Coupling Nuts, Jam Nuts | Aluminum alloy 6061 T6, electroless nickel plated | Approved for Space Flight |
| Rigid Insulators | Glass-filled liquid crystal polymer (LCP) in accordance with MIL-M-24519, Type GLCP-30F | Approved for Space Flight |
| Contact Retention Clip | Beryllium copper, heat-treated, unplated | Approved for Space Flight |
| Grommet, Peripheral Seal, Interfacial Seal, O-ring | Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988 | Requires outgassing processing |
| Hermetic Insert | Vitreous glass | Approved for Space Flight |
| Pin Contact | Beryllium copper alloy per ASTM B197, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches | Approved for Space Flight |
| Pin Contact, Hermetic | Nickel-iron alloy per ASTM F30 (Alloy 52),50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches | Ferromagnetic material. |
| Socket Contact | Beryllium copper alloy per ASTM B197, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches. | Approved for Space Flight |
| Socket Contact Hood | Stainless steel, passivated per AMS-QQ-P-35 | Approved for Space Flight |
| Adhesives | RTV and epoxies (see following table for outgassing info) | Requires outgassing processing |
| Potting Compound, PCB and Solder Cup Versions | Environmental and Hermetic Connectors: Stycast 2651/Catalyst 9 epoxy encapsulant. Filter Connectors: Stycast 2850FT/Catalyst 11 thermally conductive epoxy encapsulant. | Approved for Space Flight |
| Filter Element | Multilayer Ceramic Planar Array, ferrite inductors | Approved for Space Flight |

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## 2 Outgassing: *What is outgassing and how does it affect connector selection? Is special processing required to meet outgassing requirements?*

### What is outgassing?

Plastic and rubber materials give off gaseous molecules. For example, the smell inside a new car is caused by polymer outgassing. Heat and vacuum increase the rate of diffusion. In a spacecraft the gases coming off polymers can contaminate optical surfaces and instruments. The result is degraded performance.

### How is outgassing measured?

The space industry has adopted a standardized test procedure, ASTM E 595, to evaluate outgassing properties of polymers. Small samples of material are heated to 125° C. at a vacuum of 5 X $10^{-5}$ torr for 24 hours.

Then the sample is weighed to calculate the *Total Mass Loss* (TML). The TML cannot exceed 1.00% of the total initial mass. During the test, outgassed matter condenses on a cooled collector plate. The quantity of outgassed matter is caluclated to determine the *Collected Volatile Condensable Material* (CVCM). The CVCM cannot exceed 0.10% of the original specimen mass.

### Is special outgassing processing necessary on Series 80 connectors?

NASA states "A bakeout for outgassing control is driven by the application and may be required where tight contamination control must be maintained." NASA generally recommends that military circular connectors undergo outgassing processing. This processing can be performed by Glenair; however, some customers prefer to fabricate higher level subassemblies before outgassing processing.

### Outgassing At-a-Glance

1 Fluorosilicone rubber components and encapsulants exceed NASA outgassing limits.

2 NASA recommends outgassing processing to reduce outgassing to acceptable levels.

3 An inexpensive oven bakeout has better results than the more costly thermal vacuum outgassing. The higher temperature of the oven bakeout is more effective at removing volatile materials. However, both methods assure compliance with outgassing limits.

4 Glenair Mod 429 codes provide an easy ordering solution, whatever the outgassing option.

**OUTGASSING PROPERTIES OF MATERIALS USED IN SERIES 80 CONNECTORS**

| Component | Material | TML % | TCVML % | Test Reference |
|---|---|---|---|---|
| Front and Rear Insulator | Liquid Crystal Polymer Vectra C130 | 0.03 | 0.0 | NASA Test # GSC17478 |
| Rear Grommet<br>Interfacial Seal<br>Peripheral Seal | Blended flourosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% flourosilicone per MIL-R-25988 | 0.48 | 0.14 | Glenair testing conducted at NuSil Technology 02/27/2001 |
| Front-To-Rear Insulator Bonding Material | Eccobond 104 A/B | 0.52 | 0.08 | Emerson & Cuming Data Sheet |
| Insulator-to-Rubber Bonding Material | DC3145 RTV, per MIL-A-46146 | 2.52 | 0.58 | NASA Test GSC28621 |
| Coupling Nut Retainer | Torlon® 4203L | 1.88 | 0.01 | Glenair Test at NuSil Technology 03-12-2003 |
| Coupling Nut Epoxy | Hysol C9-4215 | 0.48 | 0.01 | Glenair Test |
| O-Ring | Flourosilicone Rubber | 0.32 | 0.03 | NASA Test GSFC8687 |
| White Epoxy Ink for Silkscreening | Markem 7224 White | 0.49 | 0.03 | NASA Test #GSC19899 |
| Black Ink for Part Number Identification | Videojet #16-5600Q | TBD | TBD | |
| Potting Compound, Solder Cup and PC Tail Connectors | Hysol C9-4215 | 0.48 | 0.01 | Glenair Test |
| Potting Compound, Solder Cup and PC Tail Connectors | DC3145 RTV, per MIL-A-46146 | 2.52 | 0.58 | NASA Test GSC28621 |
| Potting Compound, Filter Receptacles | Stycast epoxy, 2850FT/Catalyst 11 | 0.29 | 0.02 | Mfgr Data Sheet |

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## 3 Screening: *What is NASA screening and what level of screening is required?*

### What is NASA screening?

NASA specification EEE-INST-002 provides instructions on selecting, screening and qualifying parts for use on NASA GSFC space flight projects. Table 2A in the NASA specification contains inspection instructions for circular connectors including MIL-DTL-38999. Series 80 connectors are not mentioned in the NASA spec but are similar to D38999 connectors, so Table 2A applies by similarity to Series 80 connectors.

### What screening level is required?

NASA defines three levels of screening: level 1 for highest reliability, level 2 for high reliability, and level 3 for standard reliability. Level 3 equates to standard lot acceptance inspection. Levels 1 and 2 call for additional testing.

### What about qualification requirements?

Projects using connectors covered by military specifications are typically able to waive qualification testing. The Series 80 connector has been rigorously tested by Glenair but is not covered by a military specification. Projects considering using the Series 80 for space flight should obtain guidance from the overseeing space agency regarding the suitability of existing Glenair Series 80 test data, available on request.

**NASA EEE-INST-002 SCREENING REQUIREMENTS**

| Inspection/ Test | NASA Level 1 | NASA Level 2 |
|---|---|---|
| Visual Inspection | 100% | 100% |
| Mechanical | 2 pcs. | 2 pcs. |
| Voltage (DWV) | 2 pcs. | 2 pcs. |
| Insulation Resistance | 2 pcs. | 2 pcs. |
| Contact Engagement and Separation Force (socket contacts) | 2 pcs. | N/A |
| Coupling Force | 2 pcs. | N/A |
| Air leakage (Hermetic connectors only) | 100% | 100% |
| Solderability/Resistance to Soldering Heat | 2 pcs. | N/A |
| 1. NASA screening requirements from Table 2A of EEE-INST-002 "Screening Requirements for Circular Connectors..." | | |

## 4 Magnetic permeability: *Are nonmagnetic connectors required?*

Spacecraft designers generally avoid the use of ferromagnetic materials, which can become magnetized and can interfere with sensitive instruments. Series 80 aluminum shell connectors have a maximum permeability of 2 mu. Hermetic Series 80 connector pins are iron alloy, a highly magnetic material.

## 5 Cryogenic exposure: *Space programs sometimes need cryogenic connectors capable of withstanding temperatures as low as -270° C. Can Series 80 connectors operate satisfactorily at this temperature?*

Series 80 connectors are rated to -65° C. Glenair does not have data to validate these connectors for cryogenic applications. EEE-INST-002 states "...experience has proven it is possible for (non-certified) connector types to be used successfully at cryogenic temperatures. It is recommended that connector samples should be subjected to five cycles of cryogenic temperature...(followed by examination for cracks and DWV)".


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## SERIES 80 MODIFICATION CODES

| Modification Code | Description | Application Notes | Part Number Example |
|---|---|---|---|
| MOD-186 | Oven bake connector for 48 hours at 175° C. | Intended for space flight applications. See **Guidelines for Space-Grade Applications.** | 800-006-06M5-3SN-***186*** |
| MOD-429 | Special NASA high-reliability screening and processing | Use this mod code on all Series 80 connectors. See **Guidelines for Space-Grade Applications.** | 801-010-02M13-37PB-***429J*** |
| MOD-489 | Solder dip PC tails in 63/37 tin-lead | For use with all connectors with PC tail contacts. | 801-011-02M7-10PA-***489*** |
| MOD-501 | Replace spanner-style jam nut w/ hex-style jam nut w/ safety wire holes | Use this mod code on all Series 80 rear panel mount jam nut connectors (style 07). | 800-010-07M6-4SN-***501*** |
| MOD-518 | Waterblock sealing of printed circuit board and solder cup receptacles. Sealing meets $10^{-4}$ cc/second maximum helium leak rate at 15 PSI pressure differential following three cycles of thermal shock. | For use on all panel mount receptacles with printed circuit board or solder cup contacts. | 801-011-07M9-19SA-***518*** |

## STANDARD MATERIAL AND FINISH CODES

| Code | Material | Finish | Finish Specification | Hrs. Salt Spray | Electrical Conductivity | Operating Temp. Range | RoHS Compliance |
|---|---|---|---|---|---|---|---|
| **AB** | Marine Bronze | Unplated | | 1000 | Conductive | -65 to +200°C | ✓ |
| **AL** | Aluminum | AlumiPlate | MIL-DTL-83488 | 1000 | Conductive | -65 to +175°C | ✓ |
| **C** | Aluminum | Anodize, Black | AMS-A-8625 | 48 | Non-Conductive | -65 to +175°C | ✓ |
| **E** | Aluminum | Chem Film | MIL-DTL-5541 | 168 | Conductive | -65 to +175°C | |
| **G2** | Aluminum | Anodize, Hardcoat | AMS-A-8625 | 336 | Non-Conductive | -65 to +200°C | ✓ |
| **JF** | Aluminum | Cadmium, Gold | SAE-AMS-QQ-P-416 | 1000 | Conductive | -65 to +175°C | |
| **LF** | Aluminum | Cadmium, Clear | SAE-AMS-QQ-P-416 | 1000 | Conductive | -65 to +175°C | |
| **M** | Aluminum | Electroless Nickel | AMS-C-26074 | 48 | Conductive | -65 to +200°C | ✓ |
| **MT** | Aluminum | Nickel-PTFE | GMF-002 | 500 | Conductive | -65 to +175°C | ✓ |
| **NC** | Aluminum | Zinc-Cobalt, Olive Drab | ASTM B 840 | 350 | Conductive | -65 to +175°C | |
| **NF** | Aluminum | Cadmium, Olive Drab | SAE-AMS-QQ-P-416 | 500 | Conductive | -65 to +175°C | |
| **P** | Stainless Steel | Electrodeposited Nickel | SAE-AMS-QQ-N-290 | 500 | Conductive | -65 to +200°C | ✓ |
| **Z1** | Stainless Steel | Passivate | SAE-AMS-QQ-P-35 | 1000 | Conductive | -65 to +200°C | ✓ |
| **Z2** | Aluminum | Gold | MIL-DTL-45204 | 48 | Conductive | -65 to +200°C | ✓ |
| **ZC** | Stainless Steel | Zinc-Cobalt, Black | ASTM-B840 | | Conductive | -65 to +175°C | |
| **ZCR** | Stainless Steel | Zinc-Cobalt, Black (RoHS) | ASTM-B840 | | Conductive | -65 to +175°C | ✓ |
| **ZL** | Stainless Steel | Electrodeposited Nickel | SAE-AMS-QQ-N-290 | 1000 | Conductive | -65 to +200°C | ✓ |
| **ZM** | Stainless Steel | Electroless Nickel | AMS-C-26074 | | Conductive | -65 to +200°C | ✓ |
| **ZMT** | Stainless Steel | Nickel-PTFE | GMF-002 | 1000 | Conductive | -65 to +175°C | ✓ |
| **ZN** | Aluminum | Zinc-Nickel, Olive Drab | ASTM B841 | 500 | Conductive | -65 to +175°C | |
| **ZNU** | Aluminum | Zinc-Nickel, Black | ASTM B841 | 500 | Conductive | -65 to +175°C | |
| **ZR** | Aluminum | Zinc-Nickel, Black | ASTM B841 | 1000 | Conductive | -65 to +175°C | ✓ |
| **ZU** | Stainless Steel | Cadmium, Black | SAE-AMS-QQ-P-416 | 1000 | Conductive | -65 to +175°C | |
| **ZW** | Stainless Steel | Cadmium, Olive Drab | SAE-AMS-QQ-P-416 | 2000 | Conductive | -65 to +175°C | |

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# Series 800 Mighty Mouse with UN Mating Thread
# Table of Contents & Product Selection Guide

Glenair®

## SECTION C SERIES 800 PRODUCT SELECTION GUIDE


***Plugs***
**Page C-5**
**800-006, 800-007, 800-008, 800-009**

**Series 800 Plugs**
Available with hex shaped or round, knurled coupling nuts. The integral shield termination platform accepts heat-shrink boots (ordered separately), or select accessory threads for use with a variety of strain relief and backshell accessory options.

***Crimp Receptacles***
**Page C-7**
**800-010, 800-011**

**Series 800 Receptacles for Insulated Wire**
Jam nut, square flange and in-line versions make it easy to find a style for every application. The integral shield termination platform accepts heat-shrink boots (ordered separately), or select accessory threads for use with a variety of strain relief and backshell accessory options. Contacts are crimp-type and are packaged with the connector.

***Solder Cup/PCB Receptacles***
**Page C-11**
**800-012, 800-040**

**Series 800 Receptacles With Solder Cup or PCB Termination**
These panel mount connectors feature gold plated, factory-installed non-removeable contacts. Choose printed circuit terminals for attachment to flex circuits or rigid boards, or choose solder cup contacts. Connectors are potted with epoxy for general purpose applications, or choose silicone-sealed, leak-tested versions for 1 meter water immersion.

***Right Angle PCB Headers***
**Page C-14**
**800-032**

**Right Angle PCB Receptacles**
Supplied with factory-installed, non-removable PC tail contacts for attachment to rigid boards or flex circuits. Epoxy-sealed. Includes threaded inserts for attachment to PC board.

***Hermetic Receptacles***
**Page C-18**
**800-013**

**Series 800 Hermetic Receptacles**
Need a miniaturized hermetic for a sealed box or instrument? These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. Choose jam nut, square flange or solder mount versions. Contacts are gold plated iron alloy. 100% tested to meet 1 X $10^{-6}$ cc/sec helium leakage. Open face pressure rating 1000 PSI.

***Feedthrough***
**Page C-21**
**800-060**

**Series 800 Bulkhead Feedthrough Receptacle Connector**
Jam Nut mount, shell sizes 5 to 15. This connector mates with all high densisty plug connectors with the same polarization and opposite contact genders (800-005, 800-007, 800-008, and 800-009). Copper alloy gold-plated contacts, pins to pin, pin to plug or plug to plug.

***Cordsets***
**Page C-23**
**800-034, 800-041, 800-038, 800-039**

**Series 800 Cordsets**
Specify overmolded cordsets for optimum convenience and performance. Select standard polyurethane-jacketed cable for general purpose applications, or choose low-smoke, zero halogen polyurethane for applications where toxic combustion products are restricted.

***Protective Covers***
**Page C-27**
**667-184, 667-185**

**Series 800 Protective Covers**
Thread-on metal covers provide a watertight seal and prevent damage. Select nylon cord or wire rope lanyards with a range of ring terminal diameters to fit just about any need.


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# Series 800 Mighty Mouse with UN Mating Thread Contact Arrangements



## CONTACT ARRANGEMENTS

| Contact Arr. | No. of Contacts | | | | |
|---|---|---|---|---|---|
| | #23 | #20 | #20HD | #16 | #12 |
| 5-3 | 3 | | | | |
| 6-1 | | | | 1 | |
| 6-23 | | | 3 | | |
| 6-4 | 4 | | | | |
| 6-6 | 6 | | | | |
| 6-7 | 7 | | | | |
| 7-1 | | | | | 1 |
| 7-25 | | | 5 | | |
| 7-10 | 10 | | | | |
| 8-2 | | | | 2 | |
| 8-28 | | | 8 | | |
| 8-13 | 13 | | | | |
| 8-200 | 4 | 2 | | | |
| 9-4 | | | | 4 | |
| 9-210 | | | 10 | | |
| 9-19 | 19 | | | | |
| 9-200 | 4 | | | 2 | |
| 9-201 | 8 | 2 | | | |
| 10-2 | | | | | 2 |
| 10-5 | | | | 5 | |
| 10-26 | 26 | | | | |
| 10-200 | 12 | | | | 1 |
| 10-201 | 4 | | | | 2 |
| 10-202 | 8 | | | 2 | |
| 12-2 | | | | | 2 |
| 12-3 | | | | | 3 |
| 12-7 | | | | 7 | |
| 12-220 | | | 20 | | |
| 12-37 | 37 | | | | |
| 12-200 | 6 | | | | 2 |
| 12-201 | 10 | | | | 2 |

Contact Legend
#23 ◦ #20HD ◓ #20 ● #16 ◒ #12 ⊕

**Mating Face View of Pin Connector**
**(socket connector numbers are reversed)**

Dimensions in inches (millimeters) and are subject to change without notice.

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- **Threaded Coupling Mechanism**
- **Crimp Rear Release Contacts**
- **Integral Band Platform**
- **Available with Size #12, #16, #20, #20HD and #23 Contacts**
- **Environmentally Sealed**

# Glenair's Original Mighty Mouse Offers Environmental Sealing and Rugged Design in a Lightweight, Ultraminiature Package

Series 800 connectors are intended for light and medium duty applications where size, weight and cost outweigh the need for heavier-duty Series 80 connectors. Terminate shielded cable directly to the integral band platform for excellent EMI protection. Originally used for aerospace sensors, these Series 800 connectors have proven to be a good solution for small form factor tactical equipment including keyboards, radios, ruggedized RPDA's and other dismounted soldier equipment. These connectors meet the requirements of MIL-STD-810 for immersion, vibration, sand and dust, shock, and corrosion resistance.

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 A., #20 7.5 A., #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #20HD 750 VAC, #12 and #16 1800 VAC |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -55° C. to +150° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 55 dB minimum from 100MHz to 1000MHz. |
| Durability | 2000 mating cycles |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Contact Retention Clip | Beryllium copper alloy |
| Interfacial Seal, O-rings, Wire Sealing Grommet | Fluorosilicone rubber |

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# Series 800 Mighty Mouse with UN Mating Thread Connector Weights and Panel Cutouts



## CONNECTOR WEIGHTS

Maximum Weight In Grams

| Layout | Cable Plug | J/N Recep Crimp Contacts | J/N Recep PCB Contacts |
|---|---|---|---|
| 5-3P | 3.6 | 2.5 | 2.5 |
| 5-3S | 3.7 | 2.6 | 2.6 |
| 6-1P | 4.3 | 3.2 | 3.2 |
| 6-1S | 4.4 | 3.3 | 3.3 |
| 6-4P | 4.8 | 3.7 | 3.9 |
| 6-4S | 5.2 | 4.0 | 3.7 |
| 6-7P | 4.8 | 3.6 | 3.7 |
| 6-7S | 4.7 | 4.0 | 3.9 |
| 7-1P | 5.7 | 4.7 | 4.4 |
| 7-1S | 5.9 | 5.0 | 4.5 |
| 7-10P | 6.9 | 5.7 | 5.1 |
| 7-10S | 7.4 | 6.2 | 5.4 |
| 8-2P | 7.4 | 6.2 | 6.2 |
| 8-2S | 8.1 | 6.9 | 6.9 |
| 8-13P | 6.7 | 5.5 | 5.5 |
| 8-13S | 7.2 | 5.9 | 5.9 |
| 8-200P | 7.7 | 6.5 | 6.5 |
| 8-200S | 8.4 | 7.2 | 7.2 |
| 9-4P | 8.7 | 7.4 | 6.7 |
| 9-4S | 8.8 | 7.6 | 6.8 |
| 9-19P | 10.5 | 9.2 | 7.7 |
| 9-19S | 11.2 | 9.6 | 7.9 |
| 9-200P | 8.3 | 6.8 | 6.2 |
| 9-200S | 9.4 | 7.9 | 7.3 |
| 9-201P | 8.4 | 6.9 | 6.3 |
| 9-201S | 9.5 | 8.0 | 7.4 |
| 10-5P | 9.7 | 9.9 | 12.2 |
| 10-5S | 11.1 | 11.3 | 13.6 |
| 10-26P | 7.9 | 8.1 | 10.5 |
| 10-26S | 8.6 | 8.4 | 9.9 |
| 10-200P | 8.8 | 9.0 | 11.3 |
| 10-200S | 10.3 | 10.6 | 12.8 |
| 10-201P | 9.1 | 9.4 | 11.7 |
| 10-201S | 10.7 | 10.9 | 13.2 |
| 10-202P | 8.8 | 9.0 | 11.2 |
| 10-202S | 10.2 | 10.5 | 12.8 |
| 12-2P | 10.5 | 10.1 | 11.6 |
| 12-2S | 10.6 | 10.2 | 11.7 |
| 12-3P | 10.7 | 10.3 | 11.8 |
| 12-3S | 10.8 | 10.5 | 11.9 |
| 12-7P | 14.3 | 13.8 | 15.3 |
| 12-7S | 16.9 | 16.5 | 17.9 |
| 12-37P | 12.5 | 12.1 | 13.5 |
| 12-37S | 16.1 | 13.6 | 14.9 |
| 12-200P | 13.2 | 12.8 | 14.2 |
| 12-200S | 15.5 | 15.1 | 16.5 |
| 12-201P | 13.3 | 12.9 | 14.3 |
| 12-201S | 15.7 | 15.3 | 16.7 |

## SERIES 800 PANEL CUTOUTS

| Shell Size | A Flat In. | A Flat mm. | øB In. | øB mm. |
|---|---|---|---|---|
| 5 | .295/.299 | 7.49/7.59 | .317/.327 | 8.05/8.30 |
| 6 | .358/.362 | 9.09/9.19 | .380/.390 | 9.65/9.91 |
| 7 | .424/.428 | 10.77/10.87 | .442/.452 | 11.23/11.48 |
| 8 | .479/.483 | 12.16/12.26 | .505/.515 | 12.83/13.08 |
| 9 | .537/.541 | 13.64/13.74 | .567/.577 | 14.40/14.66 |
| 10 | .610/.614 | 15.49/15.59 | .630/.640 | 16.00/16.26 |
| 12 | .717/.721 | 18.21/18.31 | .755/.765 | 19.18/19.43 |

## SERIES 800 RECOMMENDED TORQUE VALUES

| Shell Size | Coupling Torque In-Lbs. Min. | Coupling Torque In-Lbs. Max. | Coupling Torque N-m Min. | Coupling Torque N-m Max. | Jam Nut In-Lbs. Min. | Jam Nut In-Lbs. Max. | Jam Nut N-m Min. | Jam Nut N-m Max. | Backshell In-Lbs. Min. | Backshell In-Lbs. Max. | Backshell N-m Min. | Backshell N-m Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 13 | 17 | 1.5 | 1.9 | 20 | 25 | 2.2 | 2.8 | 13 | 17 | 1.5 | 1.9 |
| 6 | 18 | 22 | 2.0 | 2.5 | 20 | 25 | 2.2 | 2.8 | 18 | 22 | 2.0 | 2.5 |
| 7 | 20 | 25 | 2.3 | 2.8 | 20 | 25 | 2.2 | 2.8 | 30 | 40 | 3.4 | 4.5 |
| 8 | 30 | 40 | 3.4 | 4.5 | 20 | 25 | 2.2 | 2.8 | 30 | 40 | 3.4 | 4.5 |
| 9 | 30 | 40 | 3.4 | 4.5 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| 10 | 35 | 45 | 4.0 | 5.1 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |
| 12 | 35 | 45 | 4.0 | 5.1 | 25 | 30 | 2.8 | 3.3 | 35 | 45 | 4.0 | 5.1 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread Plug Connector Ordering Information

## 800-006 Thru 800-009

*Series 800 Plug Connector*

Glenair's smallest Mighty Mouse connector has compact size and rugged design for hostile environments. UN mating thread. Connector shells are machined aluminum or stainless steel. Supplied with crimp contacts, packaged separately. Terminate contacts with standard M22520 tools. Metal clips inside the connector body lock contact into place. Contacts are removable. Fluorosilicone seals and rear grommet protect connector from water ingress. Choose hex or knurled coupling nut. Terminate cable shield directly to connector body with BAND-IT strap, or choose rear accessory thread to attach optional cable clamp or backshell. Available in shell sizes 5 through 12 in 31 contact arrangements.



## HOW TO ORDER

**Sample Part Number**

| 800-006 | -06 | M | 7-10 | P | Z |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**800-006**<br>Hex Plug with Banding Platform<br> <br>**800-007**<br>Hex Plug with Accessory Thread<br> <br>**800-008**<br>Knurled Round Plug with Band Platform<br> <br>**800-009**<br>Knurled Round Plug with Accessory Thread | **-06**<br>Standard Coupling Nut<br>**-16**<br>Coupling Nut with Anti-Decoupling Wave Spring | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE C-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **N**<br>Normal<br>**X**<br>Pos. X<br>**Y**<br>Pos. Y<br>**Z**<br>Pos. Z |

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# Series 800 Mighty Mouse with UN Mating Thread Plug Connector Dimensions

## 800-006 Thru 800-009

***Hex Coupling Nut***
800-006
800-007

***Round Knurled Coupling Nut***
800-008
800-009

***Integral Band Platform***
800-006
800-008

***Accessory Threads***
800-007
800-009

## DIMENSIONS

| Shell Size | A Hex Style 06 | | A Hex Style 16 | | Ø B Style 06 | | Ø B Style 16 | | Ø C Style 06 | | Ø C Style 16 | | Ø D | | E Threads Coupling Nut | F Threads Accessory |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In . | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | | |
| **5** | .430 | 10.92 | .495 | 12.57 | .470 | 11.94 | .540 | 13.72 | .430 | 10.92 | .490 | 12.45 | .230 | 5.84 | .3125-28 UN-2B | .250-32 UNEF-2A |
| **6** | .500 | 12.70 | .563 | 14.30 | .550 | 13.97 | .620 | 15.75 | .500 | 12.70 | .560 | 14.22 | .286 | 7.26 | .3750-28 UN-2B | .3125-32 UNEF-2A |
| **7** | .625 | 15.88 | .720 | 18.29 | .680 | 17.27 | .800 | 20.32 | .620 | 15.75 | .680 | 17.27 | .390 | 9.91 | .4375-28 UNEF-2B | .4375-28 UNEF-2A |
| **8** | .680 | 17.27 | .743 | 18.87 | .750 | 19.05 | .830 | 21.08 | .680 | 17.27 | .750 | 19.05 | .445 | 11.30 | .5000-32 UN-2B | .5000-28 UNEF-2A |
| **9** | .750 | 19.05 | .813 | 20.65 | .830 | 21.08 | .890 | 22.61 | .750 | 19.05 | .810 | 20.57 | .500 | 12.70 | .5625-32 UN-2B | .5625-24 UNEF-2A |
| **10** | .812 | 20.62 | .875 | 22.23 | .900 | 22.86 | .960 | 24.38 | .810 | 20.57 | .880 | 23.35 | .565 | 14.35 | .6250-32 UN-2B | .6250-24 UNEF-2A |
| **12** | .875 | 22.23 | .938 | 23.83 | .970 | 24.64 | 1.030 | 26.16 | .880 | 22.35 | .940 | 23.88 | .650 | 16.51 | .7500-28 UN-2B | .6875-24 UNEF-2A |

## SERIES 800 KEY POSITIONS

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position.

**Plug Key Position**

**Receptacle Key Position**

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread Crimp Receptacle Ordering Information

## 800-010 and 800-011

*In-Line*

*Rear Panel Jam Nut*

*Square Flange*

***Integral Band Platform*** for direct attachment of a cable shield using a ***BAND-IT®*** strap. Install a boot, or overmold onto the band platform. An accessory thread is available for attaching strain reliefs and backshells.

***Three Shell Options:*** Jam nut with o-ring for rear panel mounting, square flange or in-line receptacle for free-hanging cables.



## HOW TO ORDER

**Sample Part Number**

| 800-011 | -01 | M | 6-4 | P | N |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**800-010**<br>Receptacle with Banding Platform<br> <br>**800-011**<br>Receptacle with Accessory Thread | <br>**-01**<br>In-Line<br> <br>**-02**<br>Square Flange for Front or Rear Mounting<br> <br>**-07**<br>Jam Nut for Rear Panel Mounting | **C**<br>Aluminum / Black Anodize (Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated<br>RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE C-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **N**<br>Normal<br>**X**<br>Pos. X<br>**Y**<br>Pos. Y<br>**Z**<br>Pos. Z |

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# Series 800 Mighty Mouse with UN Mating Thread Jam Nut Crimp Receptacle Dimensions

## 800-010-07 and 800-011-07



***Integral Band Platform***
800-010-07

***Accessory Thread***
800-011-07

## DIMENSIONS

| Shell Size | Ø A | | B | | C | | D Threads Mating | E Max. | | Ø F | | Ø G | | H Max. | | J Threads Accessory |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | |
| 5 | .541 | 13.74 | .500 | 12.70 | .285 | 7.24 | .3125-28 UN-2A | .875 | 22.22 | .230 | 5.84 | .051 | 1.30 | .850 | 21.59 | .250-32 UNEF-2A |
| 6 | .610 | 15.49 | .562 | 14.27 | .352 | 8.94 | .3750-28 UN-2A | .875 | 22.22 | .286 | 7.26 | .051 | 1.30 | .850 | 21.59 | .3125-32 UNEF-2A |
| 7 | .670 | 17.02 | .635 | 16.13 | .411 | 10.44 | .4375-28 UNEF-2A | .875 | 22.22 | .390 | 9.91 | .093 | 2.36 | .850 | 21.59 | .4375-28 UNEF-2A |
| 8 | .775 | 19.69 | .735 | 18.67 | .473 | 12.01 | .5000-32 UN-2A | .875 | 22.22 | .445 | 11.30 | .093 | 2.36 | .850 | 21.59 | .5000-28 UNEF-2A |
| 9 | .875 | 22.23 | .806 | 20.47 | .530 | 13.46 | .5625-32 UN-2A | .875 | 22.22 | .500 | 12.70 | .093 | 2.36 | .850 | 21.59 | .5625-24 UNEF-2A |
| 10 | .980 | 24.89 | .940 | 23.88 | .604 | 15.34 | .6250-32 UN-2A | .875 | 22.22 | .565 | 14.35 | .093 | 2.36 | .850 | 21.59 | .6250-24 UNEF-2A |
| 12 | 1.062 | 26.97 | .986 | 25.04 | .712 | 18.08 | .7500-28 UN-2A | .875 | 22.22 | .650 | 16.51 | .093 | 2.36 | .850 | 21.59 | .6875-24 UNEF-2A |

## SERIES 800 PANEL CUTOUTS

| Shell Size | A Flat | | øB | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | .295/.299 | 7.49/7.59 | .317/.327 | 8.05/8.30 |
| 6 | .358/.362 | 9.09/9.19 | .380/.390 | 9.65/9.91 |
| 7 | .424/.428 | 10.77/10.87 | .442/.452 | 11.23/11.48 |
| 8 | .479/.483 | 12.16/12.26 | .505/.515 | 12.83/13.08 |
| 9 | .537/.541 | 13.64/13.74 | .567/.577 | 14.40/14.66 |
| 10 | .610/.614 | 15.49/15.59 | .630/.640 | 16.00/16.26 |
| 12 | .717/.721 | 18.21/18.31 | .755/.765 | 19.18/19.43 |

## SERIES 800 KEY POSITIONS

**Plug**

**Receptacle**

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC.

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# Series 800 Mighty Mouse with UN Mating Thread Square Flange Crimp Receptacle Dimensions

## 800-010-02 and 800-011-02

## DIMENSIONS

| Shell Size | A SQ | | B | | Ø C | | Ø D | | E Threads Mating | Ø F | | G Max. | | H Threads Accessory | J Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. ± .005 | mm. ± 0.13 | | In. | mm. | In. | mm. | | In. | mm. |
| **5** | .527 | 13.39 | .363 | 9.22 | .680 | 17.27 | .094 | 2.39 | .3125-28 UN-2A | .230 | 5.84 | .750 | 19.05 | .250-32 UNEF-2A | .725 | 18.42 |
| **6** | .588 | 14.92 | .423 | 10.74 | .750 | 19.05 | .094 | 2.39 | .3750-28 UN-2A | .286 | 7.26 | .750 | 19.05 | .3125-32 UNEF-2A | .725 | 18.42 |
| **7** | .650 | 16.51 | .483 | 12.27 | .830 | 21.08 | .128 | 3.25 | .4375-28 UNEF-2A | .390 | 9.91 | .825 | 20.96 | .4375-28 UNEF-2A | .800 | 20.32 |
| **8** | .710 | 18.03 | .542 | 13.77 | .938 | 23.83 | .128 | 3.25 | .5000-32 UN-2A | .445 | 11.30 | .825 | 20.96 | .5000-28 UNEF-2A | .800 | 20.32 |
| **9** | .938 | 23.83 | .719 | 18.26 | 1.250 | 31.75 | .128 | 3.25 | .5625-32 UN-2A | .500 | 12.70 | .825 | 20.96 | .5625-24 UNEF-2A | .800 | 20.32 |
| **10** | .938 | 23.83 | .719 | 18.26 | 1.250 | 31.75 | .128 | 3.25 | .6250-32 UN-2A | .565 | 14.35 | .825 | 20.96 | .6250-24 UNEF-2A | .800 | 20.32 |
| **12** | 1.031 | 26.19 | .812 | 20.62 | 1.375 | 34.93 | .128 | 3.25 | .7500-28 UN-2A | .650 | 16.51 | .825 | 20.96 | .6875-24 UNEF-2A | .800 | 20.32 |

## SERIES 800 KEY POSITIONS

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC.

Plug Key Position

Receptacle Key Position

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread In-Line Crimp Receptacle Dimensions

## 800-010-01 and 800-011-01



***Integral Band Platform***
800-010-01

***Accessory Thread***
800-011-01

**DIMENSIONS**

| Shell Size | A | | Ø B | | C Threads Mating | D Max. | | Ø E | | F Max. | | G Threads Accessory |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | In. | mm. | |
| **5** | .312 | 7.92 | .355 | 9.02 | .3125-28 UN-2A | .750 | 19.05 | .230 | 5.84 | .725 | 18.42 | .250-32 UNEF-2A |
| **6** | .375 | 9.53 | .400 | 10.16 | .3750-28 UN-2A | .750 | 19.05 | .286 | 7.26 | .725 | 18.42 | .3125-32 UNEF-2A |
| **7** | .445 | 11.30 | .490 | 12.45 | .4375-28 UNEF-2A | .825 | 20.96 | .390 | 9.91 | .800 | 20.32 | .4375-28 UNEF-2A |
| **8** | .550 | 13.97 | .600 | 15.24 | .5000-32 UN-2A | .825 | 20.96 | .445 | 11.30 | .800 | 20.32 | .5000-28 UNEF-2A |
| **9** | .613 | 15.57 | .663 | 16.84 | .5625-32 UN-2A | .825 | 20.96 | .500 | 12.70 | .800 | 20.32 | .5625-24 UNEF-2A |
| **10** | .675 | 17.15 | .725 | 18.42 | .6250-32 UN-2A | .825 | 20.96 | .565 | 14.35 | .800 | 20.32 | .6250-24 UNEF-2A |
| **12** | .800 | 20.32 | .850 | 21.59 | .7500-28 UN-2A | .825 | 20.96 | .650 | 16.51 | .800 | 20.32 | .6875-24 UNEF-2A |

**SERIES 800 KEY POSITIONS**

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position.

**Plug Key Position**

**Receptacle Key Position**

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# Series 800 Mighty Mouse with UN Mating Thread Printed Circuit Board Receptacle Ordering Info

## 800-012-02 and 800-012-07

*Series 800 PCB Receptacle*

***Printed Circuit Board/ Solder Cup Receptacles*** feature low profile shells for minimum protrusion inside enclosures and integral board standoffs. Contacts are non-removable.

***Water Immersion, Unmated***

Specify ***800-012*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***800-040*** watertight connectors . These 800-040 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x $10^{-4}$ cc/second at one atmosphere pressure differential from -40C to +70C.



**HOW TO ORDER**

**Sample Part Number**

| 800-012 | -07 | M | 7-10 | P | Z |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **800-012**<br>Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting<br><br>**800-040**<br>Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. | <br>**-02**<br>Square Flange<br><br> <br>**-07**<br>Jam Nut | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE C-2 | **P**<br>Pin<br>**S**<br>Socket<br>**E**<br>Pin, Solder Cup<br>**F**<br>Socket, Solder Cup | **N**<br>Normal<br>**X**<br>Pos. X<br>**Y**<br>Pos. Y<br>**Z**<br>Pos. Z |

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# Series 800 Mighty Mouse with UN Mating Thread Printed Circuit Board Receptacle Dimensions

## Jam Nut Receptacle 800-012-07

### DIMENSIONS

| Shell Size | Ø A | | Ø B | | C | | D Threads Mating | Ø E Tail Dia. | F Max | | G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | | In. | mm. | In. | mm. |
| **5** | .541 | 13.74 | .500 | 12.70 | .285 | 7.24 | .3125-28 UN-2A | **#23** .018/.022 (0.46/0.56) | .725 | 18.42 | .247 | 6.27 |
| **6** | .610 | 15.49 | .562 | 14.27 | .352 | 8.94 | .3750-28 UN-2A | | .725 | 18.42 | .247 | 6.27 |
| **7** | .670 | 17.02 | .635 | 16.13 | .411 | 10.44 | .4375-28 UNEF-2A | **#20** .024/.028 (0.61/0.71) | .700 | 17.78 | .205 | 5.21 |
| **8** | .775 | 19.69 | .735 | 18.67 | .473 | 12.01 | .5000-32 UN-2A | | .700 | 17.78 | .205 | 5.21 |
| **9** | .875 | 22.23 | .806 | 20.47 | .530 | 13.46 | .5625-32 UN-2A | **#16** .060/.064 (1.52/1.63) | .700 | 17.78 | .205 | 5.21 |
| **10** | .980 | 24.89 | .940 | 23.88 | .604 | 15.34 | .6250-32 UN-2A | **#12** .092/.096 (2.34/2.44) | .700 | 17.78 | .205 | 5.21 |
| **12** | 1.062 | 26.97 | .986 | 25.04 | .712 | 18.08 | .7500-28 UN-2A | | .700 | 17.78 | .205 | 5.21 |

### SERIES 800 KEY POSITIONS

**Plug**

**Receptacle**

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position.

### SERIES 800 PANEL CUTOUTS

| Shell Size | A Flat | | øB | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| **5** | .295/.299 | 7.49/7.59 | .317/.327 | 8.05/8.30 |
| **6** | .358/.362 | 9.09/9.19 | .380/.390 | 9.65/9.91 |
| **7** | .424/.428 | 10.77/10.87 | .442/.452 | 11.23/11.48 |
| **8** | .479/.483 | 12.16/12.26 | .505/.515 | 12.83/13.08 |
| **9** | .537/.541 | 13.64/13.74 | .567/.577 | 14.40/14.66 |
| **10** | .610/.614 | 15.49/15.59 | .630/.640 | 16.00/16.26 |
| **12** | .717/.721 | 18.21/18.31 | .755/.765 | 19.18/19.43 |

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# Series 800 Mighty Mouse with UN Mating Thread Printed Circuit Board Receptacle Dimensions

## Square Flange Receptacle 800-012-02

| DIMENSIONS | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Shell Size | A SQ | | B | | Ø C | | Ø D | | E Threads Mating | Ø F Tail Dia. | G Max | | H | |
| | In. | mm. | In. | mm. | In. | mm. | In. ± .005 | mm. ± 0.13 | | | In. | mm. | In. | mm. |
| 5 | .527 | 13.39 | .363 | 9.22 | .680 | 17.27 | .094 | 2.39 | .3125-28 UN-2A | #23 .018/.022 (0.46/0.56) | .725 | 18.42 | .426 | 10.82 |
| 6 | .588 | 14.92 | .423 | 10.74 | .750 | 19.05 | .094 | 2.39 | .3750-28 UN-2A | | .725 | 18.42 | .426 | 10.82 |
| 7 | .650 | 16.51 | .483 | 12.27 | .830 | 21.08 | .128 | 3.25 | .4375-28 UNEF-2A | #20 .024/.028 (0.61/0.71) | .700 | 17.78 | .255 | 6.48 |
| 8 | .710 | 18.03 | .542 | 13.77 | .938 | 23.83 | .128 | 3.25 | .5000-32 UN-2A | | .700 | 17.78 | .255 | 6.48 |
| 9 | .938 | 23.83 | .719 | 18.26 | 1.250 | 31.75 | .128 | 3.25 | .5625-32 UN-2A | #16 .060/.064 (1.52/1.63) | .700 | 17.78 | .255 | 6.48 |
| 10 | .938 | 23.83 | .719 | 18.26 | 1.250 | 31.75 | .128 | 3.25 | .6250-32 UN-2A | #12 .092/.096 (2.34/2.44) | .700 | 17.78 | .255 | 6.48 |
| 12 | 1.031 | 26.19 | .812 | 20.62 | 1.375 | 34.93 | .128 | 3.25 | .7500-28 UN-2A | | .700 | 17.78 | .255 | 6.48 |

## SERIES 800 KEY POSITIONS

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC.

Plug Key Position

Receptacle Key Position

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread Right Angle PCB Receptacle Headers

## 800-032-07

*Right Angle PCB Receptacle*

800-032 right angle I/O headers feature gold-plated size #23 contacts. UN mating thread, and aluminum or stainless steel shells. Rubber seal protects mated connectors from water ingress. 5 amp current rating, 500 VAC voltage rating. Contacts are factory-installed and are non-removable. Thermoplastic rear housing has #2-56 threaded inserts for attaching to circuit board with customer-supplied mounting screws. Connectors attach to chassis or panel with low-profile jam nut and O-ring. Available in six contact arrangements, these right angle headers are ideal for hostile environment 100/1000BASE-T Ethernet applications where commercial-grade RJ-45 jacks are not advised.

### HOW TO ORDER SERIES 800 RIGHT ANGLE PCB RECEPTACLES

**Sample Part Number**

| 800-032 | -07 | M | 7-10 | P | Z |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **800-032**<br>PCB Receptacle | <br>**-07**<br>Jam Nut | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | **5-3** 3 #23<br>**6-4** 4 #23<br>**6-7** 7 #23<br>**7-10** 10 #23<br>**8-13** 13 #23<br>**9-19** 19 #23 | **P**<br>Pin<br>**S**<br>Socket | **N**<br>Normal<br>**X**<br>Pos. X<br>**Y**<br>Pos. Y<br>**Z**<br>Pos. Z |

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# Series 800 Mighty Mouse with UN Mating Thread Right Angle PCB Receptacle Headers

## 800-032-07

## DIMENSIONS

| Shell Size | A In. ±.005 | A mm. ±0.13 | B In. | B mm. | Ø C In. | Ø C mm. | D Threads | E In. | E mm. | F In. | F mm. | G In. ±.035 | G mm. ±0.89 | H In. ±.005 | H mm. ±0.13 | J In. | J mm. | K In. | K mm. | L In. | L mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5-3** | .289 | 7.34 | .498 | 12.65 | .538 | 13.67 | .3125-28 UN-2A | .260 | 6.60 | .235 | 5.97 | .257 | 6.53 | .050 | 1.27 | .165 | 4.19 | .310 | 7.87 | .486 | 12.34 |
| **6-4** | .355 | 9.02 | .560 | 14.22 | .605 | 15.37 | .3750-28 UN-2A | .330 | 8.38 | .232 | 5.89 | .285 | 7.24 | .050 | 1.27 | .224 | 5.69 | .385 | 9.78 | .580 | 14.73 |
| **6-7** | .355 | 9.02 | .560 | 14.22 | .605 | 15.37 | .3750-28 UN-2A | .350 | 8.89 | .232 | 5.89 | .285 | 7.24 | .050 | 1.27 | .187 | 4.75 | .408 | 10.36 | .580 | 14.73 |
| **7-10** | .414 | 10.52 | .640 | 16.26 | .665 | 16.89 | .4375-28 UNEF-2A | .350 | 8.89 | .325 | 8.26 | .285 | 7.24 | .092 | 2.34 | .170 | 4.32 | .452 | 11.48 | .640 | 16.26 |
| **8-13** | .475 | 12.07 | .730 | 18.54 | .770 | 19.56 | .5000-32 UN-2A | .490 | 12.45 | .330 | 8.38 | .285 | 7.24 | .092 | 2.34 | .230 | 5.84 | .490 | 12.45 | .680 | 17.27 |
| **9-19** | .532 | 13.51 | .805 | 20.45 | .875 | 22.23 | .5625-32 UN-2A | .490 | 12.45 | .360 | 9.14 | .275 | 6.99 | .092 | 2.34 | .342 | 8.69 | .600 | 15.24 | .800 | 20.32 |

## PANEL CUTOUTS FOR RIGHT ANGLE PCB HEADERS

RECOMMENDED PANEL CUTOUT

| Shell Size | A Flat In. +.004/-.000 | A Flat mm. +0.10/-0.00 | øB In. ±.005 | øB mm. ±0.13 |
|---|---|---|---|---|
| **5** | .294 | 7.47 | .322 | 8.18 |
| **6** | .360 | 9.14 | .386 | 9.80 |
| **7** | .419 | 10.64 | .449 | 11.40 |
| **8** | .481 | 12.22 | .510 | 12.95 |
| **9** | .538 | 13.67 | .574 | 14.58 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread Right Angle PCB Receptacle Headers

## 800-032-07 Face View



### FACE VIEWS OF RIGHT ANGLE PCB HEADERS

| KEY POSITIONS | |
|---|---|
| **Key Position** | **Key Rotation** |
| **Normal (N)** | 150° |
| **X** | 140° |
| **Y** | 130° |
| **Z** | 120° |

JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 5 AND 6
SOCKET FACE SHOWN

JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 7 10 POSITION
SOCKET FACE SHOWN

JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 8 13 POSITION
SOCKET FACE SHOWN

JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 9 19 POSITION
SOCKET FACE SHOWN

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## RIGHT ANGLE PCB FOOTPRINTS: PIN CONNECTORS

Patterns shown are for component mounting side of PCB.
Contacts are .022 (0.56) max. diameter, mounting holes are .093 (2.36) diameter

*5-3P*

*6-4P*

*6-7P*

*7-10P*

*8-13P*

*9-19P*

## RIGHT ANGLE PCB FOOTPRINTS: SOCKET CONNECTORS

Patterns shown are for component mounting side of PCB.

*5-3S*

*6-4S*

*6-7S*

*7-10S*

*8-13S*

*9-19S*

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# Series 800 Mighty Mouse with UN Mating Thread Hermetic Receptacles

## 800-013

*Series 800 Hermetic*

Compact, rugged Series 800 hermetic receptacles feature 304L stainless steel shells and vitreous glass insulators. Contacts are gold-plated iron alloy. UN mating thread. Available with male pin contacts (contact Glenair for hermetic connectors with female socket contacts). 100% helium leak tested to meet 1 x $10^{-7}$ cc/second maximum leak rate. 1000 psi open face (unmated) pressure rating. Contacts are factory-installed and are non-removable. Terminate to wires with solder cup versions, or choose PC tail versions for thru-hole soldering to rigid or flexible circuit boards. Available in 31 contact arrangements from shell size 5 to 12. Contact sizes 12, 16, 20, 20HD and 23.

## HOW TO ORDER

**Sample Part Number**

| 800-013 | -07 | Z1 | 7-10 | P | Z |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **800-013**<br>Hermetic Receptacle | <br>**-02**<br>Square Flange<br> <br>**-03**<br>Solder Mount<br> <br>**-07**<br>Jam Nut | **Z1**<br>Stainless Steel / Passivated<br>**ZL**<br>Stainless Steel / Nickel Plated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE C-2 | **P**<br>Pin, Solder Cup<br>**C**<br>Pin, PC Tail<br>**S**<br>Socket, Solder Cup<br>**D**<br>Sockets, PC Tail | **N**<br>Normal<br>**X**<br>Pos. X<br>**Y**<br>Pos. Y<br>**Z**<br>Pos. Z |

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## 800-013-02 Square Flange Dimensions

**800-013-02 SQUARE FLANGE HERMETIC RECEPTACLE DIMENSIONS**

| Shell Size | A SQ | | B BSC | | Ø C | | Ø D | | E Threads Mating | Ø F PC TAIL DIA. ± .002 (0.05) |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. ± .005 | mm. ± 0.13 | | |
| 5 | .527 | 13.39 | .363 | 9.22 | .680 | 17.27 | .094 | 2.39 | .3125-28 UN-2A | Size #23 .020 (0.51) |
| 6 | .588 | 14.92 | .423 | 10.74 | .750 | 19.05 | | | .5000-32 UN-2A | |
| 7 | .650 | 16.51 | .483 | 12.27 | .830 | 21.08 | .096 | 2.44 | .4375-28 UNEF-2A | Size #20 .026 (0.66) |
| 8 | .710 | 18.03 | .542 | 13.77 | .938 | 23.83 | .091 | 2.31 | .5000-32 UN-2A | |
| 9 | .938 | 23.83 | .719 | 18.26 | 1.250 | 31.75 | .130 | 3.30 | .5625-32 UN-2A | Size #16 .062 (1.57) |
| 10 | .938 | 23.83 | .719 | 18.26 | 1.250 | 31.75 | | | .6250-32 UN-2A | Size #12 .094 (2.34) |
| 12 | 1.031 | 26.19 | .812 | 20.62 | 1.375 | 34.93 | | | .7500-28 UN-2A | |

## 800-013-03 Solder Mount Dimensions

### Shell Size 5 and 6

### Shell Size 7 thru 12

**DIMENSIONS**

| Shell Size | Ø A | | B Threads | Ø C PC TAIL DIA. ± .002 (0.05) |
|---|---|---|---|---|
| | In. | mm. | | |
| 5 | .400 | 10.16 | .3125-28 UN-2A | Size #22 .020 (0.51) |
| 6 | .455 | 11.56 | .3750-28 UN-2A | |
| 7 | .520 | 13.21 | .4375-28 UNEF-2A | Size #20 .026 (0.66) |
| 8 | .650 | 16.51 | .5000-32 UN-2A | |
| 9 | .764 | 19.41 | .5625-32 UN-2A | Size #16 .062 (1.57) |
| 10 | .775 | 19.69 | .6250-32 UN-2A | Size #12 .094 (2.34) |
| 12 | .858 | 21.79 | .7500-28 UN-2A | |

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# Series 800 Mighty Mouse with UN Mating Thread Hermetic Connector Dimensions

## 800-013-07 Jam Nut

| DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | Ø A | | Ø B | | C | | D Threads Mating | Ø E ± .002 (0.05) |
| | In. | mm. | In. | mm. | In. | mm. | | |
| 5 | .541 | 13.74 | .500 | 12.70 | .285 | 7.24 | .3125-28 UN-2A | **Size #22** .020 (0.51) **Size #20** .026 (0.66) **Size #16** .062 (1.57) **Size #12** .094 (2.34) |
| 6 | .610 | 15.49 | .562 | 14.27 | .352 | 8.94 | .3750-28 UN-2A | |
| 7 | .670 | 17.02 | .635 | 16.13 | .411 | 10.44 | .4375-28 UNEF-2A | |
| 8 | .775 | 19.69 | .735 | 18.67 | .473 | 12.01 | .5000-32 UN-2A | |
| 9 | .875 | 22.23 | .806 | 20.47 | .530 | 13.46 | .5625-32 UN-2A | |
| 10 | .980 | 24.89 | .940 | 23.88 | .604 | 15.34 | .6250-32 UN-2A | |
| 12 | 1.062 | 26.97 | .986 | 25.04 | .712 | 18.08 | .7500-28 UN-2A | |

## SERIES 800 KEY POSITIONS

Plug

Receptacle

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC.

## SERIES 800 PANEL CUTOUTS

| Shell Size | A Flat | | øB | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | .295/.299 | 7.49/7.59 | .317/.327 | 8.05/8.30 |
| 6 | .358/.362 | 9.09/9.19 | .380/.390 | 9.65/9.91 |
| 7 | .424/.428 | 10.77/10.87 | .442/.452 | 11.23/11.48 |
| 8 | .479/.483 | 12.16/12.26 | .505/.515 | 12.83/13.08 |
| 9 | .537/.541 | 13.64/13.74 | .567/.577 | 14.40/14.66 |
| 10 | .610/.614 | 15.49/15.59 | .630/.640 | 16.00/16.26 |
| 12 | .717/.721 | 18.21/18.31 | .755/.765 | 19.18/19.43 |

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# Series 800 Mighty Mouse with UN Mating Thread Bulkhead Feedthrough Receptacle Connector

## 800-060-07 Jam Nut

*Series 800 Feedthrough*

This series 800 bulkhead feedthrough receptacle is available in shell sizes 5 to 15 and mates with all UN threaded high densisty plug connectors with the same polarization and opposite contact genders (800-005, 800-007, 800-008, and 800-009). Copper alloy gold-plated contacts, pins to pin, pin to socket or socket to socket. Your choice of standard aluminum alloy or stainless steel and seven standard finishes (see below). Please contact the factory for other materials and finishes. UN mating thread.



**HOW TO ORDER**

**Sample Part Number**

| 800-060 | -07 | M | 6-7 | P | P | N |
|---|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** Jam Nut Side | **Contact Type** Other Side | **Shell Key Position** |
| **800-060**<br>Feedthrough Receptacle Jam Nut Mount | <br>**-07**<br>Jam Nut | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE C-2 | **P**<br>Pin<br>**S**<br>Socket | **P**<br>Pin<br>**S**<br>Socket | |

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7 - MARCH - 2013

# Series 800 Mighty Mouse with UN Mating Thread Bulkhead Feedthrough Receptacle Connector

## 800-060-07 Jam Nut

| DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Shell Size | A Thread | B Flat | | Ø C | | D Flat | |
| | | In. | mm. | In. | mm. | In. | mm. |
| 5 | .3125-28 UN-2A | .289 | 7.34 | .538 | 13.67 | .497 | 12.62 |
| 6 | .3750-28 UN-2A | .352 | 8.94 | .602 | 15.29 | .559 | 14.20 |
| 7 | .4375-28 UNEF-2A | .418 | 10.62 | .664 | 16.87 | .643 | 16.33 |
| 8 | .5000-32 UN-2A | .473 | 12.01 | .770 | 19.56 | .731 | 18.57 |
| 9 | .5625-32 UN-2A | .530 | 13.46 | .872 | 22.15 | .803 | 20.40 |
| 10 | .6250-32 UN-2A | .604 | 15.34 | .975 | 24.77 | .940 | 23.88 |
| 12 | .7500-28 UN-2A | .712 | 18.08 | 1.062 | 26.97 | .986 | 25.04 |
| 14 | .8750-28 UN-2A | .845 | 21.46 | 1.218 | 30.94 | 1.144 | 29.06 |
| 15 | .9375-28 UN-2A | .908 | 23.06 | 1.245 | 31.62 | 1.187 | 30.15 |

## SERIES 800 KEY POSITIONS

MASTER KEYWAY POSITION
SIZES 5 THROUGH 6

MASTER KEYWAY POSITION
SIZES 7 THROUGH 15

| Key Position | Key Rotation |
|---|---|
| Normal (N) | 150° |
| X | 140° |
| Y | 130° |
| Z | 120° |

## SERIES 800 PANEL CUTOUTS

| Shell Size | F Flat | | ØE | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | .299/.295 | 7.59/7.49 | .323 | 8.20 |
| 6 | .362/.358 | 9.19/9.09 | .385 | 9.78 |
| 7 | .428/.424 | 10.87/10.77 | .448 | 11.38 |
| 8 | .483/.479 | 12.27/12.16 | .510 | 12.95 |
| 9 | .540/.536 | 13.72/13.61 | .573 | 14.55 |
| 10 | .614/.610 | 15.60/15.49 | .635 | 16.13 |
| 12 | .722/.718 | 18.34/18.24 | .760 | 19.30 |
| 14 | .856/.852 | 21.74/21.64 | .885 | 22.48 |
| 15 | .918/.914 | 23.32/23.22 | .948 | 24.08 |

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***Abrasion-Resistant Polyurethane Jacket*** provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

***90% Tinned Copper Braid*** is terminated directly to connector with stainless steel ***BAND-IT®*** strap.

***Watertight Overmold*** provides strain relief and protection.



# Series 800 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT®*** straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing.

Series 801 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following pages.

| HARSH ENVIRONMENT CORDSET SPECIFICATIONS | |
|---|---|
| Cable Jacket Material | Thermoplastic Polyurethane, Black, Low-Smoke, Zero-Halogen |
| Cable Shield | Tin-Coated Copper Braid, 90% Minimum Coverage |
| Conductors | Silver Coated Stranded Wire, TFE Insulated, Per M22759/11 |
| ***BAND-IT®*** Shield Termination Band | Stainless Steel |
| Current Rating | #23 5 Amps, #20HD 7.5 Amps, #16 13 Amps, #12 23 Amps |
| Test Voltage (Dielectric Withstanding Voltage) | #23 500 VAC, #20HD 750 VAC, #16 and #12 1800 VAC Sea Level |
| Insulation Resistance | 200 megohms minimum |
| Operating Temperature | -30° C. to +105° C. |
| Solvent Resistance, Polyamide Overmold | Excellent Resistance to Most Solvents, Fuels, and Oils; Poor Resistance to Strong Acids and Bipolar Solvents (Alcohol) |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |
| Cable jacket Flammability and Toxicity | Toxicity Index 3.9 per NES 713<br>Oxygen Index 28% per ASTM D-2863<br>Smoke Index 24 per NES 711 |

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# Series 800 Mighty Mouse with UN Mating Thread Overmolded Cordsets

## 800-034 and 800-041



### SERIES 800 CORDSETS WITH #23 CONTACTS

**Sample Part Number**

| 800-034 | -A | C | K | 0 | M | 8-28 | N | A | -36 |
|---|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Plug Style** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **800-034** Overmolded Cordset, with Size #23 Contacts | **-A** Plug, with Male Pin Contacts<br>**-B** Plug, with Female Socket Contacts<br>**-C** Receptacle, with Male Pin Contacts<br>**-D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **K** Round Knurled Coupling Nut<br>**KL** Round Knurled Coupling Nut, Self-Locking<br>**H** Hex Coupling Nut<br>**HL** Hex Coupling Nut, Self-Locking<br>**N** Receptacle Cable | **2** #22 AWG<br>**4** #24 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with OD Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **5-3**<br>**6-4**<br>**6-6**<br>**6-7**<br>**7-10**<br>**8-13**<br>**9-19**<br>**10-26**<br>**12-37** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

### SERIES 800 CORDSETS WITH #20HD CONTACTS

**Sample Part Number**

| 800-041 | -A | C | K | 0 | M | 8-28 | N | A | -36 |
|---|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Plug Style** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **800-041** Overmolded Cordset, with Size #23 Contacts | **-A** Plug, with Male Pin Contacts<br>**-B** Plug, with Female Socket Contacts<br>**-C** Receptacle, with Male Pin Contacts<br>**-D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **K** Round Knurled Coupling Nut<br>**KL** Round Knurled Coupling Nut, Self-Locking<br>**H** Hex Coupling Nut<br>**HL** Hex Coupling Nut, Self-Locking<br>**N** Receptacle Cable | **0** #20 AWG<br>**2** #22 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with OD Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **6-23**<br>**7-25**<br>**8-28**<br>**9-210**<br>**12-220** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread Overmolded Cordsets

## 800-038 AND 800-039

Glenair®



### SERIES 800 CORDSETS WITH #16 POWER CONTACTS

**Sample Part Number**

| 800-038 | -A | C | K | 6 | M | 8-2 | N | A | -36 |
|---|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Plug Style** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **800-038** Overmolded Cordset, with Size #16 Contacts | **-A** Plug, with Male Pin Contacts<br>**-B** Plug, with Female Socket Contacts<br>**-C** Receptacle, with Male Pin Contacts<br>**-D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **K** Round Knurled Coupling Nut<br>**KL** Round Knurled Coupling Nut, Self-Locking<br>**H** Hex Coupling Nut<br>**HL** Hex Coupling Nut, Self-Locking<br>**N** Receptacle Cable | **6** #16 AWG<br>**8** #18 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with OD Chromate<br>**ZNU** \|Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **6-1**<br>**8-2**<br>**9-4**<br>**10-5**<br>**12-7** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

### SERIES 800 CORDSETS WITH #12 POWER CONTACTS

**Sample Part Number**

| 800-039 | -A | C | K | 6 | M | 8-2 | N | A | -36 |
|---|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Plug Style** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **800-039** Overmolded Cordset, with Size #12 Contacts | **-A** Plug, with Male Pin Contacts<br>**-B** Plug, with Female Socket Contacts<br>**-C** Receptacle, with Male Pin Contacts<br>**-D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **K** Round Knurled Coupling Nut<br>**KL** Round Knurled Coupling Nut, Self-Locking<br>**H** Hex Coupling Nut<br>**HL** Hex Coupling Nut, Self-Locking<br>**N** Receptacle Cable | **2** #12 AWG<br>**4** #14 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with OD Chromate<br>**ZNU** \|Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **7-1**<br>**10-2**<br>**12-2**<br>**12-3** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

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# Series 800 Mighty Mouse with UN Mating Thread Overmolded Cordsets

## Dimensions

## RIGHT ANGLE CORDSETS

***How To Order Right Angle Cordsets***

Insert the letter "**R**" after the End A or End B Connector letter designator.

***Example***

Straight cable 800-034-ACH4Z16-4PN-72
Right Angle 800-034-A***R***C***R***H4Z16-4PN-72

| DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Shell Size | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **5** | 2.15 | 54.61 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 1.85 | 46.99 |
| **6** | 2.15 | 54.61 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 1.85 | 46.99 |
| **7** | 2.15 | 54.61 | 0.7 | 17.78 | 1.5 | 38.1 | 0.7 | 17.78 | 2.05 | 52.07 |
| **8** | 2.25 | 57.15 | 0.75 | 19.05 | 1.6 | 40.64 | 0.75 | 19.05 | 2.15 | 54.61 |
| **9** | 2.55 | 64.77 | 0.85 | 21.59 | 1.9 | 48.26 | 0.85 | 21.59 | 2.35 | 59.69 |
| **10** | 2.55 | 64.77 | 0.85 | 21.59 | 1.9 | 48.26 | 0.85 | 21.59 | 2.35 | 59.69 |
| **12** | 2.85 | 72.39 | 1.1 | 27.94 | 2.2 | 55.88 | 1.1 | 27.94 | 2.85 | 72.39 |

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# Series 800 Mighty Mouse with UN Mating Thread Metal Protective Covers

## 667-184 and 667-185

*Receptacle Cover*

Protective covers fit Series 800 plug and receptacle connectors. Aluminum or stainless steel. Silicone rubber gasket protects connector from contamination and water ingress. Attach to panel or cable with a variety of lanyards and fittings. Lanyard styles include braided nylon rope, stainless steel wire or sash chain. Stainless steel wire available with flexible, rugged polyurethane coating or Teflon sleeving for high temperatue requirements.



## HOW TO ORDER SERIES 800 PROTECTIVE COVERS

**Sample Part Number**

| 667-184 | -M | G | 9 | 04 | | -6 |
|---|---|---|---|---|---|---|
| **Series** | **Shell Material/ Finish** | **Attachment Type** | **Shell Size** | **Attachment Code** | | **Attachment Length in Inches** |
| <br>**667-184**<br>Protective Cover for use with Series 800 Plugs<br> <br>**667-185**<br>Protective Cover for use with Series 800 Receptacles | **C**<br>Aluminum / Black Anodize (Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated<br>RoHS Compliant | **G**<br>Nylon Rope<br>**H**<br>SST Wire Rope, Teflon® Jacket<br>**N**<br>No Attachment<br>**S**<br>SST Sash Chain<br>**SK**<br>Nylon Rope With Slip Knot<br>**T**<br>SST Wire Rope, No Jacket<br>**U**<br>SST Wire Rope, Polyurethane Jacket<br>"SST" = Stainless Steel | **5**<br>**6**<br>**7**<br>**8**<br>**9**<br>**10**<br>**12** | Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot) | | Omit for attachment Type **N** (No Attachment)<br>**Example**<br>"-6" equals six inch length |
| | | | | <br>Small Ring | **01** – .126 (3.20) I.D.<br>**02** – .145 (3.68) I.D.<br>**04** – .188 (4.78) I.D.<br>**06** – .197 (5.00) I.D. | |
| | | | | <br>Large Ring | **14** – .385 (9.78) I.D.<br>**15** – .445 (11.30) I.D.<br>**16** – .570 (14.48) I.D.<br>**17** – .635 (16.13) I.D.<br>**18** – .695 (17.65) I.D.<br>**19** – .885 (22.48) I.D.<br>**20** – 1.070 (27.17) I.D. | |
| | | | | <br>Split Ring | **50** – .420 (10.67) I.D.<br>**52** – .480 (12.19) I.D.<br>**54** – .635 (16.13) I.D.<br>**56** – .745 (18.92) I.D.<br>**58** – .885 (22.48) I.D.<br>**60** – 1.010 (25.65) I.D.<br>**64** – 1.125 (28.58) I.D.<br>**68** – 1.345 (34.16) I.D. | |

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7 - MARCH - 2013

# Series 800 Mighty Mouse with UN Mating Thread Metal Protective Covers

## 667-184 and 667-185



## Attaching a 667-185 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 5, 6 | .385 | 9.78 | .510 | 12.95 |
| 15 | 7 | .445 | 11.30 | .565 | 14.35 |
| 16 | 8 | .570 | 14.48 | .685 | 17.40 |
| 17 | 9 | .635 | 16.13 | .760 | 19.30 |
| 18 | 10 | .695 | 17.65 | .820 | 20.82 |
| 19 | 12 | .885 | 22.48 | 1.010 | 25.65 |

## Attaching a 667-185 Receptacle Cover to a Panel With a Screw

Small Ring for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 04 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

## Attaching a Cover to a Cable Assembly With a Solid Ring

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 15 | 7 | .445 | 11.30 | .565 | 14.35 |
| 16 | 8, 9 | .570 | 14.48 | .685 | 17.40 |
| 18 | 10, 13 | .695 | 17.65 | .820 | 20.82 |
| 20 | 16, 17 | 1.070 | 27.17 | 1.195 | 30.35 |

## Attaching a Cover to a Cable Using a Split Ring or Slip Knot

Large Split Ring for Attaching Covers to Cables

| Dia. Code | Max. Cable Dia. (in.) | Ring Diameter Min. ID In. | Ring Diameter Min. ID mm. | Ring Diameter Max. OD In. | Ring Diameter Max. OD mm. |
|---|---|---|---|---|---|
| 50 | .410 | .420 | 10.67 | .580 | 14.73 |
| 52 | .470 | .480 | 12.19 | .640 | 16.26 |
| 54 | .625 | .635 | 16.13 | .796 | 20.22 |
| 56 | .735 | .745 | 18.92 | .905 | 22.99 |
| 58 | .875 | .885 | 22.48 | 1.046 | 26.57 |
| 60 | 1.000 | 1.010 | 25.65 | 1.171 | 29.74 |
| 64 | 1.115 | 1.125 | 28.58 | 1.285 | 32.64 |
| 68 | 1.335 | 1.345 | 34.16 | 1.505 | 38.23 |

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# Series 800 Mighty Mouse with UN Mating Thread Metal Protective Cover Dimensions

## 667-184 and 667-185

***667-184 Plug Cover***

***667-185 Receptacle Cover***

| Shell Size | A Max. | | B | C |
|---|---|---|---|---|
| | In. | mm. | | |
| **5** | .462 | 11.73 | .3125-28 UN-2A | .3125-28 UN-2B |
| **6** | .525 | 10.80 | .3750-28 UN-2A | .3750-28 UN-2B |
| **7** | .588 | 14.94 | .4375-28 UNEF-2A | .4375-28 UNEF-2B |
| **8** | .650 | 16.51 | .5000-32 UN-2A | .5000-32 UN-2B |
| **9** | .713 | 18.11 | .5625-32 UN-2A | .5625-32 UN-2B |
| **10** | .838 | 21.29 | .6250-32 UN-2A | .6250-32 UN-2B |
| **12** | .900 | 22.86 | .7500-28 UN-2A | .7500-28 UN-2B |

## MATERIALS AND FINISHES

| | |
|---|---|
| Cover | Aluminum alloy per ASTM B211, or stainless steel per AMS-QQ-S-763 |
| Gasket | Silicone rubber |
| Wire,Hardware | Stainless steel, passivated |

## LANYARD OPTIONS

| | |
|---|---|
| **Nylon Rope** | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter |
| **Polyurethane Coated Wire Rope** | Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter |
| **Teflon® Jacketed Wire Rope** | Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter |
| **Sash Chain** | Stainless steel, #8 chain, .240" (6mm) |
| **Slip Knot (SK)** for Attaching Covers to Cable | 55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop. |

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SERIES 80

# INTEGRAL BAND PORCH

## Another Series 80 Mighty Mouse Innovation—the Integral Band Porch—Reduces Connector Package Size and Weight and Eliminates the Cost and Complexity of Add-On Accessories

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# Series 801 Mighty Mouse
# Double-Start ACME Threads
## Table of Contents and Product Selection Guide

Glenair®

## SERIES 801 DOUBLE-START PRODUCT SELECTION GUIDE


***Plugs***
**Page D-6**
**801-007, 801-008**

**Series 801 Plugs**
These connectors are supplied with crimp contacts. Two styles are available: integral band platform for direct attachment of the cable shield, or choose accessory threads for attachment of backshells or strain reliefs.

***Crimp Receptacles***
**Page D-8**
**801-009, 801-010**

**Series 801 Crimp Receptacles**
Jam nut, square flange and in-line versions. Integral shield termination platform or accessory threads. Contacts are crimp-type, and are packaged with the connector.

***Solder Cup/PCB Receptacles***
**Page D-11**
**800-011, 801-033**

**Series 801 Receptacles With Solder Cup or PCB Termination**
These panel mount connectors feature non-removeable contacts. Choose printed circuit terminals solder cup contacts. Connectors are potted with epoxy for general purpose applications, or choose silicone-sealed, leak-tested versions for 1 meter water immersion.

***Right Angle PCB Headers***
**Page D-14**
**801-023**

**Series 801 Right Angle PCB Receptacles**
Supplied with factory-installed, non-removable PC tail contacts for attachment to rigid boards or flex circuits. Epoxy-sealed, stainless steel threaded inserts.

***Hermetic Receptacles***
**Page D-17**
**801-012**

**Series 801 Hermetic Receptacles**
These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. Choose jam nut, square flange or solder mount versions. Contacts are gold plated iron alloy. 100% tested to meet 1 X $10^{-6}$ cc/sec helium leakage. Open face pressure rating 1000 PSI.

***Feedthrough***
**Page D-23**
**801-074**

**Series 801 Bulkhead Feedthrough Receptacle Connector**
Jam Nut mount, shell sizes 5 to 21. This connector mates with all quick coupling high densisty plug connectors with the same polarization and opposite contact genders (801-001, 801-002, 801-007, and 801-008). Copper alloy gold-plated contacts, pins to pin, pin to plug or plug to plug.

***Sav-Con®***
**Page D-25**
**801-017**

**Series 801 Sav-Con® Connector Savers**
Protect expensive test equipment and cables with Glenair Sav-Con® connector savers. These plug/receptacle adapters feature non-removable contacts and a ratcheting coupling mechanism to prevent loosening under vibration.

***Cordsets***
**Page D-27**
**801-026, 801-031, 801-032, 801-034**

**Series 801 Cordsets**
Specify overmolded cordsets for optimum convenience and performance. Low smoke/zero halogen polyurethane jackets provide excellent all-weather cable protection.

***Metal Covers***
**Page D-31**
**667-217, 667-218**

**Series 801 Metal Protective Covers**
Thread-on metal covers provide a watertight seal and prevent damage. Select nylon cord or wire rope lanyards with a range of ring terminal diameters to fit just about any need.

***Rubber Covers***
**Page D-34**
**809-190, 809-191**

**Series 801 Rubber Protective Covers**
Splashproof rubber covers are ideal for tactical applications. These friction-fit neoprene caps attach to cable or chassis with nylon rope.


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# Series 801 Mighty Mouse
# Double-Start ACME Threads
## Contact Arrangements



## CONTACT ARRANGEMENTS

| Contact Arr. | No. of Contacts | | | | |
|---|---|---|---|---|---|
| | #23 | #20 | #20HD | #16 | #12 |
| 5-3 | 3 | | | | |
| 6-1 | | | | 1 | |
| 6-23 | | | 3 | | |
| 6-4 | 4 | | | | |
| 6-6 | 6 | | | | |
| 6-7 | 7 | | | | |
| 7-1 | | | | | 1 |
| 7-25 | | | 5 | | |
| 7-10 | 10 | | | | |
| 8-2 | | | | 2 | |
| 8-28 | | | 8 | | |
| 8-13 | 13 | | | | |
| 8-200 | 4 | 2 | | | |
| 9-4 | | | | 4 | |
| 9-210 | | | 10 | | |
| 9-19 | 19 | | | | |
| 9-200 | 4 | | | 2 | |
| 9-201 | 8 | 2 | | | |
| 10-2 | | | | | 2 |
| 10-5 | | | | 5 | |
| 10-26 | 26 | | | | |
| 10-200 | 12 | | | | 1 |
| 10-201 | 4 | | | | 2 |
| 10-202 | 8 | | | 2 | |
| 13-2 | | | | | 2 |
| 13-3 | | | | | 3 |
| 13-7 | | | | 7 | |
| 13-220 | | | 20 | | |
| 13-37 | 37 | | | | |
| 13-200 | 6 | | | | 2 |
| 13-201 | 10 | | | | 2 |
| 16-5 | | | | | 5 |
| 16-12 | | | | 12 | |
| 16-235 | | | 35 | | |
| 16-55 | 55 | | | | |
| 17-7 | | | | | 7 |
| 17-14 | | | | 14 | |
| 17-241 | | | 41 | | |
| 17-85 | 85 | | | | |
| 21-12 | | | | | 12 |
| 21-22 | | | | 22 | |
| 21-269 | | | 69 | | |
| 21-130 | 130 | | | | |

**Mating Face View of Pin Connector**
**(socket connector numbers are reversed)**

Contact Legend
#23 ◦ #20HD ◒ #20 ● #16 ◒ #12 ⊕

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- **Double-Start ACME Thread with anti-decoupling spring or ratchet**
- **Crimp Rear Release Contacts**
- **Integral Band Platform**
- **Available with Size #12, #16, #20, #20HD and #23 Contacts**
- **Environmentally Sealed**



# Glenair's Series 801 Mighty Mouse Offers Mil-Spec Performance in a Lightweight, Ultraminiature Package

The 801 Series Mighty Mouse is ideal for use in high-density packaging applications where traditional military circular connectors are too large or too heavy. The double-start threads provide full mating in 1½ turns, and the plug features an anti-decoupling spring for vibration resistance. The unique integral molding/band platform allows direct shield attachment and cable overmolding. Receptacles are available with printed circuit board contacts. Plugs have anti-decoupling wave spring, or specify ratchet mechanism for added security.

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 AMPS, #20HD 7.5 A., #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #20HD 750 VAC, #12 and #16 1800 VAC |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -65° C. to +175° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 55 dB minimum from 100MHz to 1000MHz. |
| Durability | 2000 mating cycles |
| See Series 80 General Information for complete performance specs. | |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Contact Retention Clip | Beryllium copper alloy |
| Interfacial Seal, O-rings, Wire Sealing Grommet | Fluorosilicone rubber |
| See Series 80 General Information for complete material and finish specs. | |

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# Series 801 Mighty Mouse
# Double-Start ACME Threads
## Connector Weight and Size Comparison

Series 801

D38999

## Series 801 Connectors Offer Up To 71% Weight Savings and 52% Size Reduction When Compared to D38999 Series III Connectors.

The *Comparison Tables* on this page show the actual weight and size reductions that can be achieved by using Glenair Series 801 connectors instead of MIL-DTL-38999 Series III.

D

| WEIGHT COMPARISON: SERIES 801 VS. D38999 SERIES III | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Series 801 Layout | Number of Contacts | D38999 Layout | Number of Contacts | Series 801 | D38999 Aluminum | % Weight Savings | D38999 Composite | % Weight Savings |
| **5-3** | 3 | 9-98 | 3 | 7.8 | 27.2 | 71% | 21.7 | 64% |
| **6-7** | 7 | 9-35 | 6 | 9.5 | 25.6 | 63% | 19.9 | 52% |
| **9-19** | 19 | 13-35 | 22 | 18.0 | 45.9 | 61% | 38.5 | 53% |
| **13-37** | 37 | 15-35 | 37 | 32.5 | 65.3 | 50% | 57.4 | 43% |
| **16-55** | 55 | 17-35 | 55 | 47.1 | 78.5 | 40% | 65.6 | 28% |
| **17-85** | 85 | 21-35 | 79 | 51.3 | 112.4 | 54% | 99.1 | 48% |
| **21-130** | 130 | 25-35 | 128 | 75.6 | 159.3 | 53% | 136.6 | 45% |

Weights shown include contacts and represent a mated pair of plug and jam nut receptacle. Weights are in grams. D38999 weights are based on published data from a leading manufacturer.

| SIZE COMPARISON: SERIES 801 VS. D38999 SERIES III | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Cable Plug Diameter | | | | | Jam Nut Receptacle Diameter | | | | |
| Series 801 Layout | Number of Contacts | D38999 Layout | Number of Contacts | Series 801 | | D38999 | | % Reduction | Series 801 | | D38999 | | % Reduction |
| | | | | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | |
| **5-3** | 3 | 9-98 | 3 | .540 | 13.72 | .859 | 21.82 | 37% | .575 | 14.61 | 1.204 | 30.58 | 52% |
| **6-7** | 7 | 9-35 | 6 | .600 | 15.24 | .859 | 21.82 | 30% | .635 | 16.13 | 1.204 | 30.58 | 47% |
| **9-19** | 19 | 13-35 | 22 | .810 | 20.57 | 1.156 | 29.36 | 30% | .830 | 21.08 | 1.516 | 38.51 | 45% |
| **13-37** | 37 | 15-35 | 37 | 1.050 | 26.67 | 1.281 | 32.54 | 18% | 1.078 | 27.38 | 1.641 | 41.68 | 34% |
| **16-55** | 55 | 17-35 | 55 | 1.240 | 31.50 | 1.406 | 35.71 | 12% | 1.264 | 32.11 | 1.766 | 44.86 | 28% |
| **17-85** | 85 | 21-35 | 79 | 1.300 | 33.02 | 1.641 | 41.68 | 21% | 1.325 | 33.66 | 2.078 | 52.78 | 36% |
| **21-130** | 130 | 25-35 | 128 | 1.550 | 39.37 | 1.890 | 48.01 | 18% | 1.625 | 41.28 | 2.323 | 59.00 | 30% |

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## SERIES 801 CONNECTOR WEIGHTS

| Contact Arr. | Cable Plug | J/N Recep Crimp | J/N Recep PCB | Sq. Flange Recep Crimp | Sq. Flange Recep PCB |
|---|---|---|---|---|---|
| **5-3P** | 4.8 | 3.7 | 4.0 | 2.2 | 2.4 |
| **5-3S** | 5.0 | 3.9 | 4.1 | 2.2 | 2.6 |
| **6-1P** | 6.2 | 4.7 | 5.1 | 3.0 | 3.2 |
| **6-1S** | 6.5 | 5.1 | 5.4 | 3.3 | 3.5 |
| **6-4P** | 6.2 | 4.7 | 5.1 | 3.0 | 3.2 |
| **6-4S** | 6.4 | 5.0 | 5.2 | 3.1 | 3.3 |
| **6-7P** | 5.9 | 4.5 | 5.1 | 3.2 | 3.7 |
| **6-7S** | 6.2 | 4.8 | 5.2 | 3.5 | 3.9 |
| **7-1P** | 8.6 | 7.2 | 7.9 | 5.0 | 5.7 |
| **7-1S** | 9.1 | 7.7 | 8.5 | 5.5 | 6.3 |
| **7-10P** | 8.4 | 6.9 | 7.7 | 4.7 | 5.5 |
| **7-10S** | 8.8 | 7.4 | 7.9 | 5.2 | 5.7 |
| **8-2P** | 9.8 | 8.5 | 9.6 | 6.2 | 7.5 |
| **8-2S** | 10.6 | 9.2 | 10.3 | 6.9 | 8.3 |
| **8-13P** | 9.1 | 7.8 | 8.9 | 5.5 | 6.8 |
| **8-13S** | 9.8 | 8.4 | 9.4 | 6.2 | 7.2 |
| **8-200P** | 10.1 | 8.8 | 9.9 | 6.5 | 7.8 |
| **8-200S** | 10.8 | 9.5 | 10.6 | 7.2 | 8.5 |
| **9-4P** | 12.0 | 9.6 | 11.8 | 8.4 | 9.5 |
| **9-4S** | 13.0 | 11.7 | 12.8 | 9.4 | 10.5 |
| **9-19P** | 11.1 | 8.7 | 10.1 | 6.4 | 7.8 |
| **9-19S** | 12.0 | 9.6 | 10.7 | 7.3 | 8.4 |
| **9-200P** | 11.4 | 10.1 | 11.2 | 7.8 | 8.9 |
| **9-200S** | 12.5 | 11.2 | 12.3 | 8.9 | 10.0 |
| **9-201P** | 10.6 | 9.2 | 10.3 | 7.3 | 8.4 |
| **9-201S** | 12.7 | 11.3 | 12.4 | 9.0 | 10.1 |
| **10-5P** | 17.4 | 13.9 | 14.9 | 15.5 | 14.1 |
| **10-5S** | 18.8 | 15.3 | 16.3 | 16.9 | 15.5 |
| **10-26P** | 15.6 | 12.1 | 13.1 | 13.8 | 9.6 |
| **10-26S** | 16.8 | 13.3 | 13.8 | 18.4 | 10.1 |
| **10-200** | 16.5 | 13.0 | 14.0 | 14.6 | 11.0 |
| **10-200** | 17.9 | 14.4 | 15.4 | 16.1 | 12.4 |
| **10-201P** | 16.8 | 13.3 | 14.3 | 15.0 | 11.3 |

| Contact Arr. | Cable Plug | J/N Recep Crimp | J/N Recep PCB | Sq. Flange Recep Crimp | Sq. Flange Recep PCB |
|---|---|---|---|---|---|
| **10-201S** | 18.4 | 14.9 | 15.8 | 16.5 | 12.9 |
| **10-202P** | 16.4 | 12.9 | 13.9 | 14.5 | 10.9 |
| **10-202S** | 17.9 | 14.4 | 15.4 | 16.1 | 12.4 |
| **13-2P** | 20.8 | 18.9 | 18.9 | 18.9 | 16.6 |
| **13-2S** | 22.4 | 20.6 | 20.6 | 20.6 | 18.3 |
| **13-3P** | 21.8 | 19.9 | 19.9 | 19.9 | 17.6 |
| **13-3S** | 23.5 | 21.7 | 21.7 | 21.7 | 19.4 |
| **13-7P** | 22.0 | 20.1 | 20.1 | 20.1 | 17.8 |
| **13-7S** | 24.6 | 22.8 | 22.8 | 22.8 | 20.5 |
| **13-37P** | 20.2 | 18.4 | 18.4 | 18.4 | 16.1 |
| **13-37S** | 21.9 | 19.4 | 19.4 | 19.4 | 17.1 |
| **13-200P** | 20.9 | 19.0 | 19.0 | 19.0 | 16.7 |
| **13-200S** | 23.2 | 21.3 | 21.3 | 21.3 | 19.0 |
| **13-201P** | 21.0 | 19.1 | 19.1 | 19.1 | 16.8 |
| **13-201S** | 23.4 | 21.6 | 21.6 | 21.6 | 19.3 |
| **16-5P** | 31.4 | 24.9 | 27.9 | 27.9 | 25.3 |
| **16-5S** | 34.3 | 27.8 | 30.9 | 30.9 | 28.3 |
| **16-12P** | 32.1 | 25.6 | 28.7 | 28.7 | 26.1 |
| **16-12S** | 35.8 | 29.3 | 32.3 | 32.3 | 29.7 |
| **16-55P** | 29.2 | 22.7 | 26.7 | 26.7 | 24.1 |
| **16-55S** | 32.1 | 25.6 | 28.7 | 28.7 | 26.1 |
| **17-7P** | 32.8 | 29.7 | 32.3 | 32.3 | 27.7 |
| **17-7S** | 36.3 | 33.2 | 35.9 | 35.9 | 31.2 |
| **17-14P** | 35.9 | 32.8 | 35.4 | 35.4 | 30.8 |
| **17-14S** | 35.5 | 32.5 | 35.1 | 35.1 | 30.5 |
| **17-85P** | 30.9 | 25.5 | 31.9 | 31.9 | 27.8 |
| **17-85S** | 34.1 | 28.8 | 33.7 | 33.7 | 29.0 |
| **21-12P** | 38.5 | 34.5 | 37.8 | 29.0 | 34.5 |
| **21-12S** | 43.6 | 39.6 | 42.9 | 34.1 | 39.6 |
| **21-22P** | 41.0 | 37.1 | 40.4 | 31.6 | 37.1 |
| **21-22S** | 48.0 | 44.0 | 47.3 | 38.5 | 44.0 |
| **21-130P** | 36.2 | 32.2 | 35.5 | 26.7 | 32.2 |
| **21-130S** | 43.3 | 39.4 | 42.7 | 33.9 | 39.4 |

Maximum connector weight in grams.



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Plug Connector Ordering Information

## 801-007 and 801-008

***Series 801 Plug Connector***

Glenair's Series 801 Mighty Mouse connector features a double-start modified stub ACME mating thread for improved protection against cross-mating and theread damage. Connector shells are machined aluminum or stainless steel. Supplied with crimp contacts, packaged separately. Terminate contacts with standard M22520 tools. Metal clips inside the connector body lock contact into place. Contacts are removable. Fluorosilicone seals and rear grommet protect connector from water ingress. Choose hex or knurled coupling nut. Terminate cable shield directly to connector body with BAND-IT strap, or choose rear accessory thread to attach optional cable clamp or backshell. Available in shell sizes 5 through 21 in 43 contact arrangements.



**HOW TO ORDER**

**Sample Part Number**

| 801-007 | -16 | M | 7-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**801-007**<br>Banding Platform<br> <br>**801-008**<br>Rear Accessory Thread | **-16**<br>Plug with Anti-Decoupling Spring<br>**-26**<br>Self-Locking Plug with Ratchet Mechanism (the "*Clicker*") | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin<br>**B**<br>Socket Connector<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **A**<br>Normal<br>Alternate Key Positions:<br>**B**<br>**C**<br>**D**<br>**E**<br>**F** |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Plug Connector Dimensions

## 801-007 and 801-008

***Integral Band Platform***
801-007

***Accessory Thread***
801-008

* For all size #8 arrangements, add .320" to overall length.

| DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | Style 16 Ø A | | Style 26 Ø A | | B Thread | Ø C | | D Thread UNEF-2A |
| | In. | mm. | In. | mm. | | In. | mm. | |
| **5** | .540 | 13.72 | .640 | 16.26 | .3125-.05P-1L-2B | .245 | 6.22 | .250-32 |
| **6** | .600 | 15.24 | .700 | 17.78 | .375-.05P-1L-2B | .290 | 7.37 | .3125-32 |
| **7** | .680 | 17.27 | .780 | 19.81 | .4375-.05P-1L-2B | .390 | 9.91 | .4375-28 |
| **8** | .750 | 19.05 | .850 | 21.59 | .5000-.05P-.1L-2B | .445 | 11.30 | .5000-28 |
| **9** | .810 | 20.57 | .910 | 23.11 | .5625-.05P-.1L-2B | .500 | 12.70 | .5625-24 |
| **10** | .880 | 22.35 | .980 | 24.89 | .6250-.05P-1L-2B | .560 | 14.22 | .6250-24 |
| **13** | 1.050 | 26.67 | 1.150 | 29.21 | .8125-.1P-.2L-2B | .650 | 16.51 | .6875-24 |
| **16** | 1.240 | 31.50 | 1.340 | 34.04 | 1.000-.1P-.2L-2B | .805 | 20.45 | .9375-20 |
| **17** | 1.300 | 33.02 | 1.400 | 35.56 | 1.062-.1P-.2L-2B | .850 | 21.59 | .9375-20 |
| **21** | 1.550 | 39.37 | 1.650 | 41.91 | 1.3125-.1P-.2L-2B | 1.110 | 28.19 | 1.1875-18 |

| PLUG KEY POSITIONS | | |
|---|---|---|
| | **A°** | **B°** |
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Crimp Receptacle Connector Ordering Information

## 801-009 and 801-010

***In-Line***
Shell Style 01

***Rear Panel Jam Nut Mount***
Shell Style 07

***Square Flange Mount***
Shell Style 02



## HOW TO ORDER

**Sample Part Number**

| 801-010 | -02 | Z1 | 16-55 | S | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**801-009**<br>**Receptacle with Banding Platform**<br> <br>**801-010**<br>**Receptacle with Accessory Thread** | <br>**-01**<br>**In-Line**<br>For Free-Hanging Cables<br> <br>**-02**<br>**Square Flange**<br>Thru Hole, Front or Rear Panel Mount<br>**-12**<br>**Square Flange**<br>Rear Mount with Non-Locking Clinch Nuts<br>**-22**<br>**Square Flange**<br>Rear Mount with Locking Clinch Nuts<br> <br>**-07**<br>**Jam Nut**<br>For Rear Panel Mounting | **C**<br>Aluminum / Black Anodize (Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**Z1**<br>Stainless Steel / Passiv-ated<br>RoHS Compliant<br>**ZB**<br>Stainless Steel / Olive Drab Chromate over Cadmium<br>**ZC**<br>Stainless Steel / Zinc Cobalt Alloy/Black Chromate | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | ***Connector supplied with contacts***<br>**P**<br>Pin Connector<br>**S**<br>Socket Connector<br>**G**<br>#23 Pin with 30 AWG Crimp Barrel<br>**H**<br>#23 Socket with30 AWG Crimp Barrel<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector<br>**B**<br>Socket Connector<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **A**<br>**Normal**<br>Alternate Key Positions:<br>**B**<br>**C**<br>**D**<br>**E**<br>**F** |

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# Series 801 Mighty Mouse Double-Start ACME Threads Jam Nut Receptacle Connector Dimensions

## 801-009-07 and 801-010-07

***Integral Band Platform***
801-009-07

***Accessory Thread***
801-010-07



## DIMENSIONS

| Shell Size | Ø A | | B Flat | | C Flat | | D Thread | E Thread UN-2A | Ø F | | G Thread UN-2A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | | In. | mm. | |
| **5** | .575 | 14.61 | .350 | 8.89 | .545 | 13.84 | .3125-.05P-.1L-2A | .375-28 | .245 | 6.22 | .250-32 |
| **6** | .635 | 16.13 | .410 | 10.41 | .595 | 15.11 | .375-.05P-.1L-2A | .4375-28 | .290 | 7.37 | .3125-32 |
| **7** | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .4375-.05P-1L2A | .5625-32 | .390 | 9.91 | .4375-28 |
| **8** | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .5000-.05P-.1L-2A | .5625-32 | .445 | 11.30 | .5000-28 |
| **9** | .830 | 21.08 | .596 | 15.14 | .790 | 20.07 | .5625-.05P-.1L-2A | .625-28 | .500 | 12.70 | .5625-24 |
| **10** | .890 | 22.61 | .658 | 16.71 | .855 | 21.72 | .6250-.05P-.1L-2A | .6875-28 | .560 | 14.22 | .6250-24 |
| **13** | 1.078 | 27.38 | .845 | 21.46 | 1.044 | 26.52 | .8125-.1P-.2L-2A | .875-28 | .650 | 16.51 | .6875-24 |
| **16** | 1.264 | 32.11 | 1.022 | 25.96 | 1.230 | 31.24 | 1.000-.1P-.2L-2A | 1.0625-20 | .805 | 20.45 | .9375-20 |
| **17** | 1.325 | 33.66 | 1.096 | 27.84 | 1.290 | 32.77 | 1.062-.1P-.2L-2A | 1.125-28 | .850 | 21.59 | .9375-20 |
| **21** | 1.625 | 41.28 | 1.345 | 34.16 | 1.577 | 40.06 | 1.3125-.1P-.2L-2A | 1.375-28 | 1.110 | 28.19 | 1.1875-18 |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

## SERIES 801 JAM NUT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .002 | mm. ± 0.05 |
| **5** | .356 | 9.04 | .385 | 9.78 |
| **6** | .416 | 10.57 | .447 | 11.35 |
| **7** | .542 | 13.77 | .572 | 14.53 |
| **8** | .542 | 13.77 | .572 | 14.53 |
| **9** | .602 | 15.29 | .635 | 16.13 |
| **10** | .666 | 16.92 | .697 | 17.70 |
| **13** | .851 | 21.62 | .885 | 22.48 |
| **16** | 1.028 | 26.11 | 1.075 | 27.31 |
| **17** | 1.102 | 27.99 | 1.135 | 28.83 |
| **21** | 1.354 | 34.39 | 1.385 | 35.18 |

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# Series 801 Mighty Mouse Double-Start ACME Threads Square Flange Receptacle Connector Dimensions

## 801-009-02 and 801-010-02

***Integral Band Platform***
801-009-02

***Accessory Thread***
801-010-02



## DIMENSIONS

| Shell Size | A SQ | | B BSC | | Ø C | | Ø D | | E Thread | Ø F | | G Thread UNEF-2A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | |
| 5 | .530 | 13.46 | .363 | 9.22 | .680 | 17.27 | .096 .091 | 2.44 2.31 | .3125-.05P-.1L-DS-2A | .245 | 6.10 | .2500-32 |
| 6 | .590 | 14.99 | .423 | 10.74 | .750 | 19.05 | | | .3750-.05P-.1L-DS-2A | .290 | 7.37 | .3125-32 |
| 7 | .650 | 16.51 | .483 | 12.27 | .850 | 21.59 | | | .4375-.05P-.1L-DS-2A | .390 | 9.91 | .4375-28 |
| 8 | .712 | 18.08 | .545 | 13.84 | .938 | 23.83 | | | .5000-.05P-.1L-DS-2A | .445 | 11.30 | .5000-28 |
| 9 | .850 | 21.59 | .607 | 15.42 | 1.125 | 28.58 | .130 .126 | 3.30 3.20 | .5625-.05P-.1L-DS-2A | .500 | 12.70 | .5625-24 |
| 10 | .890 | 22.61 | .670 | 17.02 | 1.188 | 30.18 | | | .6250-.05P-.1L-DS-2A | .560 | 14.22 | .6250-24 |
| 11 | .935 | 23.75 | .715 | 18.16 | 1.250 | 31.75 | | | .6875-.05P-.1L-DS-2A | .605 | 15.37 | .6875-24 |
| 13 | 1.030 | 26.16 | .812 | 20.62 | 1.375 | 34.93 | | | .8125-.1P-.2L-DS-2A | .650 | 16.51 | .6875-24 |
| 16 | 1.219 | 30.96 | .981 | 24.92 | 1.625 | 41.28 | | | 1.0000-.1P-.2L-DS-2A | .805 | 20.45 | .9375-20 |
| 17 | 1.280 | 32.51 | 1.060 | 26.92 | 1.700 | 43.18 | | | 1.0625-.1P-.2L-DS-2A | .850 | 21.59 | .9375-20 |
| 19 | 1.432 | 36.37 | 1.191 | 30.25 | 1.900 | 48.26 | | | 1.1875-.1P-.2L-DS-2A | 1.003 | 25.48 | 1.0625-18 |
| 21 | 1.565 | 39.75 | 1.322 | 33.58 | 2.100 | 53.34 | | | 1.3125-.1P-.2L-DS-2A | 1.110 | 28.19 | 1.1875-18 |

## SERIES 801 PANEL CUTOUT

| Shell Size | Ø A | | B BSC | | Ø C | |
|---|---|---|---|---|---|---|
| | In | mm. | In | mm. | In | mm. |
| 5 | .328 | 8.33 | .363 | 9.22 | .096 .091 | 2.44 2.31 |
| 6 | .390 | 9.91 | .423 | 10.74 | | |
| 7 | .453 | 11.51 | .483 | 12.27 | | |
| 8 | .515 | 13.08 | .545 | 13.84 | | |
| 9 | .578 | 14.68 | .607 | 15.42 | .130 .126 | 3.30 3.20 |
| 10 | .640 | 16.26 | .670 | 17.02 | | |
| 11 | .703 | 17.86 | .715 | 18.16 | | |
| 13 | .828 | 21.03 | .812 | 20.62 | | |
| 16 | 1.015 | 25.78 | .981 | 24.92 | | |
| 17 | 1.078 | 27.38 | 1.060 | 26.92 | | |
| 19 | 1.203 | 30.56 | 1.191 | 30.25 | | |
| 21 | 1.328 | 33.73 | 1.322 | 33.58 | | |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads In-Line Receptacle Connector Dimensions

## 801-009-01 and 801-010-01

***Integral Band Platform***
801-009-01

***Accessory Thread***
801-010-01



| DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | Ø A | | B Flat | | C Thread | Ø D | | E Thread UNEF-2A |
| | In. | mm. | In. | mm. | | In. | mm. | |
| **5** | .355 | 9.02 | .325 | 8.13 | .3125-.05P-.1L-DS-2A | .245 | 6.10 | .2500-32 |
| **6** | .415 | 10.54 | .385 | 9.78 | .3750-.05P-.1L-DS-2A | .290 | 7.37 | .3125-32 |
| **7** | .480 | 12.19 | .445 | 11.30 | .4375-.05P-.1L-DS-2A | .390 | 9.91 | .4375-28 |
| **8** | .540 | 13.72 | .510 | 12.95 | .5000-.05P-.1L-DS-2A | .445 | 11.30 | .5000-28 |
| **9** | .605 | 15.37 | .575 | 14.61 | .5625-.05P-.1L-DS-2A | .500 | 12.70 | .5625-24 |
| **10** | .665 | 16.89 | .635 | 16.13 | .6250-.05P-.1L-DS-2A | .560 | 14.22 | .6250-24 |
| **11** | .730 | 18.54 | .700 | 17.78 | .6875-.05P-.1L-DS-2A | .605 | 15.37 | .6875-24 |
| **13** | .855 | 21.72 | .825 | 20.96 | .8125-.1P-.2L-DS-2A | .650 | 16.51 | .6875-24 |
| **16** | 1.040 | 26.42 | 1.010 | 25.65 | 1.0000-.1P-.2L-DS-2A | .805 | 20.45 | .9375-20 |
| **17** | 1.110 | 28.19 | 1.070 | 27.18 | 1.0625-.1P-.2L-DS-2A | .850 | 21.59 | .9375-20 |
| **19** | 1.243 | 31.57 | 1.191 | 30.25 | 1.1875-.1P-.2L-DS-2A | 1.003 | 25.48 | 1.0625-18 |
| **21** | 1.375 | 34.93 | 1.312 | 33.32 | 1.3125-.1P-.2L-DS-2A | 1.110 | 28.19 | 1.1875-18 |

**KEY POSITIONS**

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

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# Series 801 Mighty Mouse Double-Start ACME Threads PCB Receptacle Ordering Information

## 801-011 and 801-033

***Series 801 Printed Circuit Board Receptacle***

***Printed Circuit Board Receptacles*** feature low profile shells for minimum protrusion inside enclosures and integral standoffs for board washout. Contacts are non-removable.

***Water Immersion, Unmated***

Specify ***801-011*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***801-033*** watertight connectors . These 801-033 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x $10^{-4}$ cc/second at one atmosphere pressure differential from -40C to +70C.

D

**HOW TO ORDER**

**Sample Part Number**

| 801-011 | -07 | M | 7-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Key Position** |
| **801-011**<br>Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting<br><br>**801-033**<br>Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. | <br>**-02**<br>**Square Flange Front or Rear Mount**<br>**-12**<br>**Square Flange Rear Mount Non-Locking Clinch Nuts**<br>**-22**<br>**Square Flange Rear Mount Locking Clinch Nuts**<br> <br>**-07**<br>**Jam Nut** | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant<br>**ZB**<br>Stainless Steel / Olive Drab Chromate over Cadmium<br>**ZC**<br>Stainless Steel / Zinc Cobalt Alloy/Black Chromate | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | **P**<br>Pin, PC Tail<br><br>**S**<br>Socket, PC Tail<br><br>**E**<br>Pin, Solder Cup<br><br>**F**<br>Socket, Solder Cup | **A**<br>Normal<br><br>Alternate Key Positions:<br>**B**<br>**C**<br>**D**<br>**E**<br>**F** |

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# Series 801 Mighty Mouse Double-Start ACME Threads
## Jam Nut and Square Flange Connector Dimensions
### 801-011 and 801-033

***Jam Nut***
801-011-07

***Square Flange***
801-011-02

**DIMENSIONS**

| Shell Size | Ø A In. | Ø A mm. | B Flat In. | B Flat mm. | C Flat In. | C Flat mm. | D Thread | E Thread UN-2A | Ø F In. | Ø F mm. | G Sq. In. | G Sq. mm. | H BSC In. | H BSC mm. | Ø J In. | Ø J mm. | Ø D In. | Ø D mm. | Ø L Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | .575 | 14.61 | .350 | 8.89 | .545 | 13.84 | .3125-.05P-.1L-DS-2A | .3750-28 | .244 | 6.20 | .530 | 13.46 | .363 | 9.22 | .680 | 17.27 | .096/.091 (2.44/2.31) | | #23 .018/.022 (0.46/0.56) |
| 6 | .635 | 16.13 | .410 | 10.41 | .595 | 15.11 | .3750-.05P-.1L-DS-2A | .4375-28 | .330 | 8.38 | .590 | 14.99 | .423 | 10.74 | .750 | 19.05 | | | |
| 7 | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .4375-.05P-.1L-DS-2A | .5625-32 | .432 | 10.97 | .650 | 16.51 | .483 | 12.27 | .850 | 21.59 | | | |
| 8 | .755 | 19.18 | .563 | 14.30 | .723 | 18.36 | .5000-.05P-.1L-DS-2A | .5625-32 | .493 | 12.52 | .712 | 18.08 | .545 | 13.84 | .938 | 23.83 | | | |
| 9 | .830 | 21.08 | .596 | 15.14 | .790 | 20.07 | .5625-.05P-.1L-DS-2A | .6250-28 | .551 | 14.00 | .850 | 21.59 | .607 | 15.42 | 1.125 | 28.58 | .130/.126 (3.30/3.20) | | #16 .060/.064 (1.52/1.63) |
| 10 | .890 | 22.61 | .658 | 16.71 | .855 | 21.72 | .6250-.05P-.1L-DS-2A | .6875-28 | .620 | 15.75 | .890 | 22.61 | .670 | 17.02 | 1.188 | 30.18 | | | |
| 11 | .960 | 24.38 | .718 | 18.24 | .925 | 23.50 | .6875-.05P-.1L-DS-2A | .7500-28 | .662 | 16.81 | .935 | 23.75 | .607 | 15.42 | 1.250 | 31.75 | | | |
| 13 | 1.078 | 27.38 | .845 | 21.46 | 1.044 | 26.52 | .8125-.1P-.2L-DS-2A | .8750-28 | .703 | 17.86 | 1.030 | 26.16 | .715 | 18.16 | 1.375 | 34.93 | | | #12 .092/.096 (2.34/2.44) |
| 16 | 1.264 | 32.11 | 1.022 | 25.96 | 1.230 | 31.24 | 1.0000-.1P-.2L-DS-2A | 1.0625-20 | .863 | 21.92 | 1.219 | 30.96 | .981 | 24.92 | 1.625 | 41.28 | | | |
| 17 | 1.325 | 33.66 | 1.096 | 27.84 | 1.290 | 32.77 | 1.0625-.1P-.2L-DS-2A | 1.1250-28 | .912 | 23.16 | 1.280 | 32.51 | 1.060 | 26.92 | 1.700 | 43.18 | | | |
| 19 | 1.450 | 36.83 | 1.225 | 31.12 | 1.415 | 35.94 | 1.1875-.1P-.2L-DS-2A | 1.2500-28 | 1.018 | 25.86 | 1.432 | 36.37 | 1.191 | 30.25 | 1.900 | 48.26 | | | |
| 21 | 1.625 | 41.28 | 1.345 | 34.16 | 1.577 | 40.06 | 1.3125-.1P-.2L-DS-2A | 1.3750-28 | 1.170 | 29.72 | 1.565 | 39.75 | 1.322 | 33.58 | 2.100 | 53.34 | | | |

**PANEL CUTOUT**

***Shell Style 02 Square Flange***

***Shell Style 07 Jam Nut***

| Shell Size | Ø A In. | Ø A mm. | Ø B In. | Ø B mm. | Ø C In. | Ø C mm. | D Flat In. ± .002 | D Flat mm. ± 0.05 | Ø E In. ± .002 | Ø E mm. ± 0.05 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | .330 | 8.38 | .363 | 9.22 | .096/.091 (2.44/2.31) | | .362/.358 | 9.19/9.09 | .385 | 9.78 |
| 6 | .390 | 9.91 | .423 | 10.74 | | | .422/.418 | 10.72/10.62 | .448 | 11.38 |
| 7 | .450 | 11.43 | .483 | 12.27 | | | .553/.549 | 14.05/13.94 | .573 | 14.55 |
| 8 | .510 | 12.95 | .545 | 13.84 | | | .553/.549 | 14.05/13.94 | .573 | 14.55 |
| 9 | .575 | 14.61 | .607 | 15.42 | .130/.126 (3.30/3.20) | | .611/.607 | 15.52/15.42 | .635 | 16.13 |
| 10 | .640 | 16.26 | .670 | 17.02 | | | .673/.669 | 17.09/16.99 | .698 | 17.73 |
| 11 | .700 | 17.78 | .715 | 18.16 | | | .728/.724 | 18.49/18.39 | .760 | 19.30 |
| 13 | .825 | 20.96 | .812 | 20.65 | | | .861/.857 | 21.87/21.77 | .885 | 22.48 |
| 16 | 1.015 | 25.78 | .981 | 24.92 | | | 1.040/1.036 | 26.42/26.31 | 1.075 | 27.31 |
| 17 | 1.075 | 27.31 | 1.060 | 26.92 | | | 1.113/1.109 | 28.29/28.17 | 1.135 | 28.83 |
| 19 | 1.200 | 30.48 | 1.191 | 30.25 | | | 1.235/1.231 | 31.37/31.29 | 1.260 | 32.00 |
| 21 | 1.330 | 33.78 | 1.322 | 33.58 | | | 1.356/1.352 | 34.44/34.35 | 1.385 | 35.18 |

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Glenair®

# Series 801 Mighty Mouse Double-Start ACME Threads Right Angle PCB Receptacle Ordering Information

## 801-023

*Series 801 Right Angle PCB Receptacle*

Glenair's right angle 801-023 connectors offer military grade performance in a small, lightweight package.These connectors are rated for MIL-STD-810 Method 512 immersion. High temperature thermoplastic housing withstands soldering temperatures.Stainless steel hreaded inserts simplify attachment to printed circuit board.

- **Double-Start ACME Thread**
- **Right Angle Contacts**
- **High Temperature Housing**
- **Threaded Inserts**
- **Environmentally Sealed**



## HOW TO ORDER

**Sample Part Number**

| 801-023 | -07 | M | 7-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **801-023**<br>PCB Receptacle for Right Angle PC Board | **-07**<br>**Jam Nut** | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated | **Arrangement / No. of Contacts**<br>**5-3** 3<br>**6-4** 4<br>**6-7** 7<br>**7-10** 10<br>**8-13** 13<br>**9-19** 19 | **P**<br>Pin<br>**S**<br>Socket | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F |

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

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# Series 801 Mighty Mouse Double-Start ACME Threads
## Jam Nut Connector Dimensions
### 801-023-07

***Recommended Panel Cutout***

MASTER KEYWAY IS LOCATED AT TOP DEAD CENTER FOR ALL ARRANGEMENTS EXCEPT FOR THE 8-13.

5-3, 6-4, 6-7, 7-10, AND 9-19
MASTER KEYWAY LOCATION

8-13
MASTER KEYWAY LOCATION

## DIMENSIONS

| Shell Size/ Contact Arr. | A In. ±.005 | A mm. ±0.13 | B In. | B mm. | Ø C In. | Ø C mm. | D Thread | E Thread | F In. | F mm. | G In. ±.035 | G mm. ±0.89 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-3 | .350 | 8.89 | .545 | 13.84 | .580 | 14.73 | .3125-.05P-.1L-2A | .375-28 UN-2A | .225 | 5.72 | .275 | 6.99 |
| 6-4 | .410 | 10.41 | .602 | 15.29 | .635 | 16.13 | .3750-.05P-.1L-DS-2A | .4375-28 UNEF-2A | .225 | 5.72 | .292 | 7.42 |
| 6-7 | .410 | 10.41 | .602 | 15.29 | .635 | 16.13 | .3750-.05P-.1L-DS-2A | .4375-28 UNEF-2A | .225 | 5.72 | .265 | 6.73 |
| 7-10 | .536 | 13.61 | .723 | 18.36 | .755 | 19.18 | .4375-.05P-.1L-DS-2A | .5625-32 UN-2A | .296 | 7.52 | .273 | 6.93 |
| 8-13 | .536 | 13.61 | .723 | 18.36 | .755 | 19.18 | .5000-.05P-.1L-DS-2A | .5625-32 UN-2A | .319 | 8.10 | .316 | 8.03 |
| 9-19 | .595 | 15.11 | .790 | 20.01 | .830 | 21.08 | .5625-.05P-.1L-DS-2A | .6250-28 UN-2A | .360 | 9.14 | .275 | 6.99 |

| Shell Size/ Contact Arr. | H In. | H mm. | J In. | J mm. | K In. | K mm. | L In. | L mm. | N In. ± .002 | N mm. ± 0.05 | P In. ± .005 | P mm. ± 0.13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-3 | .260 | 6.60 | .165 | 4.19 | .310 | 7.87 | .490 | 14.45 | .357 | 9.07 | .385 | 9.78 |
| 6-4 | .345 | 8.76 | .224 | 5.69 | .385 | 9.78 | .589 | 15.19 | .418 | 10.62 | .448 | 11.37 |
| 6-7 | .345 | 8.76 | .187 | 4.75 | .408 | 10.36 | .589 | 15.19 | .418 | 10.62 | .448 | 11.37 |
| 7-10 | .345 | 8.76 | .170 | 4.32 | .452 | 11.48 | .710 | 18.03 | .544 | 13.82 | .573 | 14.55 |
| 8-13 | .490 | 12.45 | .230 | 5.84 | .490 | 12.45 | .710 | 18.03 | .544 | 13.82 | .573 | 14.55 |
| 9-19 | .490 | 12.45 | .342 | 8.69 | .600 | 15.24 | .800 | 20.32 | .603 | 15.32 | .635 | 16.13 |

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# Series 801 Mighty Mouse Double-Start ACME Threads
## Jam Nut Mount • Heli-Coil Inserts • Fixed Contacts
### Shell Sizes 5-21 • Ordering Information
### 801-075

*Series 801 Jam Nut*

***This Series 801 Backpotted Receptacle*** features a choice of 304L stainless steel or aluminum alloy shells, fused vitreous glass insulators and gold plated copper alloy non-removable contacts.

***Popular Jam Nut Mount Style*** Mates with all quick coupling high density plug connectors with the same polarization and opposite contact gender (801-001, 801-002, 801-007 and 801-008).

***Pin/PC Tail, Socket/PC Tail, Pin/Solder Cup*** or ***Socket/Solder Cup Contacts*** for attachment to flexible or rigid circuits or rigid boards.

D

## HOW TO ORDER

**Sample Part Number**

| 801-075 | -07 | Z1 | 7-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size/Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **801-075**<br>Receptacle with Printed Circuit Board Contacts<br>or<br>Solder Cup Contacts | **-07**<br>**Jam Nut** | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant<br>**ZB**<br>Stainless Steel / Olive Drab Chromate over Cadmium<br>**ZC**<br>Stainless Steel / Zinc Cobalt Alloy/Black Chromate | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | **P**<br>Pin, PC Tail<br>**S**<br>Socket, PC Tail<br>**E**<br>Pin, Solder Cup<br>**F**<br>Socket, Solder Cup | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F |

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

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# Series 801 Mighty Mouse Double-Start ACME Threads
## Jam Nut Mount • Heli-Coil Inserts
### Fixed Contacts • Shell Sizes 5-21
### 801-075-07

***Jam Nut***
801-075-07

## DIMENSIONS

| Shell Size | A Thread | B Thread | C Flat | | Ø D | | E SQ | | F BSC | | G Typ | | H | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 5 | .3125-.05P-.1L-2A | .3750-28 UN-2A | .348 | 8.84 | .720 | 18.29 | .545 | 13.84 | .363 | 9.22 | .143 | 3.63 | .772 | 19.61 |
| 6 | .375-.05P-.1L-2A | .4375-28 UNEF-2A | .408 | 10.36 | .800 | 20.32 | .595 | 15.11 | .423 | 10.74 | .203 | 3.63 | .772 | 19.61 |
| 7 | .4375-.05P-1L2A | .5625-32 UN-2A | .534 | 13.56 | .900 | 22.86 | .723 | 18.36 | .483 | 12.27 | .263 | 3.63 | .772 | 19.61 |
| 8 | .5000-.05P-1L-2A | .5625-32 UN-2A | .534 | 13.56 | .980 | 24.89 | .723 | 18.36 | .545 | 13.84 | .325 | 3.63 | .772 | 19.61 |
| 9 | .5625-.05P-.1L-2A | .6250-28 UN-2A | .594 | 15.09 | 1.080 | 27.43 | .790 | 20.06 | .607 | 15.42 | .387 | 3.63 | .772 | 19.61 |
| 10 | .6250-.05P-1L-2A | .6875-28 UN-2A | .656 | 16.66 | 1.160 | 29.46 | .855 | 21.72 | .670 | 17.02 | .450 | 11.43 | .772 | 19.61 |
| 11 | .6875-.05P-1L-2A | .7500-28 UN-2A | .716 | 18.19 | 1.220 | 30.99 | .925 | 21.72 | .715 | 18.16 | .495 | 12.57 | .772 | 19.61 |
| 13 | .8125-.1P-.2L-2A | .8750-28 UN-2A | .843 | 21.41 | 1.370 | 34.80 | 1.044 | 26.52 | .812 | 20.62 | .592 | 15.04 | .881 | 22.38 |
| 16 | 1.0000-.1P-.2L-2A | 1.0625-20 UN-2A | 1.020 | 25.91 | 1.620 | 41.15 | 1.230 | 31.24 | .981 | 24.92 | .751 | 19.08 | .881 | 22.38 |
| 17 | 1.0625-.1P-.2L-2A | 1.1250-28 UN-2A | 1.094 | 27.79 | 1.720 | 43.69 | 1.290 | 32.77 | 1.060 | 26.92 | .840 | 21.34 | .881 | 22.38 |
| 19 | 1.1875-.1P-.2L-2A | 1.2500-28 UN-2A | 1.225 | 31.16 | 1.920 | 48.77 | 1.415 | 35.94 | 1.191 | 30.25 | .971 | 24.66 | .881 | 22.38 |
| 21 | 1.3125-.1P-.2L-2A | 1.3750-28 UN-2A | 1.345 | 34.16 | 1.100 | 27.94 | 1.577 | 40.06 | 1.322 | 33.58 | 1.102 | 27.99 | .881 | 22.38 |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

## SERIES 801 JAM NUT PANEL CUTOUT

| Shell Size | J Flat | | Ø K | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | .358/.354 | 9.09/8.99 | .385 | 9.78 |
| 6 | .418/.414 | 10.62/10.52 | .448 | 11.38 |
| 7 | .544/.540 | 13.82/13.72 | .573 | 14.55 |
| 8 | .544/.540 | 13.82/13.72 | .573 | 14.55 |
| 9 | .604/.600 | 15.34/15.24 | .635 | 16.13 |
| 10 | .666/.662 | 16.92/16.81 | .698 | 17.73 |
| 11 | .726/.722 | 18.44/18.34 | .760 | 19.30 |
| 13 | .853/.849 | 21.67/21.56 | .885 | 22.48 |
| 16 | 1.030/1.026 | 26.16/26.06 | 1.073 | 27.25 |
| 17 | 1.104/1.100 | 28.04/27.94 | 1.135 | 28.83 |
| 19 | 1.235/1.231 | 31.37/31.27 | 1.260 | 32.00 |
| 21 | 1.355/1.351 | 34.42/34.32 | 1.385 | 35.18 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Right Angle PCB Receptacles

## 801-023 PCB Footprints



### RIGHT ANGLE PCB FOOTPRINTS: PIN CONNECTORS

Patterns shown are for component mounting side of PCB.
Contacts are .022 (0.56) max. diameter, mounting holes are .093 (2.36) diameter

*5-3P*

*6-4P*

*6-7P*

*7-10P*

*8-13P*

*9-19P*

### RIGHT ANGLE PCB FOOTPRINTS: SOCKET CONNECTORS

Patterns shown are for component mounting side of PCB.

*5-3S*

*6-4S*

*6-7S*

*7-10S*

*8-13S*

*9-19S*

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# Series 801 Mighty Mouse Double-Start ACME Threads Hermetic Receptacle Ordering Information

## 801-012

*Series 801 Solder Mount Hermetic*

***Series 801 Hermetic Receptacles*** feature 304L stainless steel shells, fused vitreous glass insulators and Alloy 52 iron alloy contacts.

***1 X $10^{-7}$ cc/second*** maximum helium leak rate.

***Three Shell Styles:*** solder mount, jam nut or square flange.

***Solder Cup Contacts*** or ***PC Tail Contacts*** for attachment to flexible or rigid circuits or rigid boards.



## HOW TO ORDER

**Sample Part Number**

| 801-012 | -03 | Z1 | 7-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size/Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **801-012**<br>Hermetic Receptacles with Printed Circuit Board Contacts or Solder Cup Contacts | <br>**-02**<br>**Square Flange**<br> <br>**-03**<br>**Solder Mount**<br> <br>**-07**<br>**Jam Nut** | **Z1**<br>Stainless Steel / Passivated<br><br>**ZB**<br>Stainless Steel with Olive Drab Cadmium Finish | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | **P**<br>Pin, Solder Cup<br><br>**C**<br>Pin, PC Tail<br><br>**S**<br>Socket, Solder Cup<br><br>**D**<br>Socket, PC Tail | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F<br> <br> |

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads
# Hermetic Jam Nut Connector Dimensions
## 801-012-07

## DIMENSIONS

| Shell Size | Ø A | | B Flat | | C Flat | | D Thread | E Thread UN-2A | Ø F | | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | | In. | mm. | |
| 5 | .575 | 14.61 | .350 | 8.89 | .545 | 13.84 | .3125-.05P-.1L-2A | .3750-28 | .244 | 6.20 | #23 .018/.022 (0.46/0.56) #20 .024/.028 (0.61/0.71) #16 .060/.064 (1.52/1.63) #12 .092/.096 (2.34/2.44) |
| 6 | .635 | 16.13 | .410 | 10.41 | .595 | 15.11 | .3750-.05P-.1L-2A | .4375-28 | .330 | 8.38 | |
| 7 | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .4375-.05P-1L-2A | .5625-32 | .432 | 10.97 | |
| 8 | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .5000-.05P-1L-2A | .5625-32 | .493 | 12.52 | |
| 9 | .830 | 21.08 | .596 | 15.14 | .790 | 20.07 | .5625-.05P-.1L-2A | .6250-28 | .551 | 14.00 | |
| 10 | .890 | 22.61 | .658 | 16.71 | .855 | 21.72 | .6250-.05P-1L-2A | .6875-28 | .620 | 15.75 | |
| 11 | .960 | 24.38 | .718 | 18.24 | .925 | 23.50 | .6875-.05P-1L-2A | .7500-28 | .662 | 16.81 | |
| 13 | 1.078 | 27.38 | .845 | 21.46 | 1.044 | 26.52 | .8125-.1P-.2L-2A | .8750-28 | .703 | 17.86 | |
| 16 | 1.265 | 32.13 | 1.022 | 25.96 | 1.230 | 31.24 | 1.0000-.1P-.2L-2A | 1.0625-20 | .863 | 21.92 | |
| 17 | 1.325 | 33.66 | 1.096 | 27.84 | 1.290 | 32.77 | 1.0625-.1P-.2L-2A | 1.1250-28 | .912 | 23.16 | |
| 19 | 1.450 | 36.83 | 1.415 | 35.94 | 1.415 | 35.94 | 1.8750-.1P-.2L-2A | 1.2500-28 | 1.018 | 25.86 | |
| 21 | 1.625 | 41.28 | 1.345 | 34.16 | 1.577 | 40.06 | 1.3125-.1P-.2L-2A | 1.3750-28 | 1.170 | 29.72 | |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

## SERIES 801 JAM NUT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .002 | mm. ± 0.05 |
| 5 | .358/.354 | 9.09/8.99 | .385 | 9.78 |
| 6 | .418/.414 | 10.62/10.52 | .448 | 11.38 |
| 7 | .544/.540 | 13.82/13.72 | .573 | 14.55 |
| 8 | .544/.540 | 13.82/13.72 | .573 | 14.55 |
| 9 | .604/.600 | 15.34/15.24 | .635 | 16.13 |
| 10 | .668/.664 | 16.97/16.87 | .698 | 17.73 |
| 11 | .728/.724 | 18.49/18.39 | .760 | 19.30 |
| 13 | .853/.849 | 21.67/21.56 | .885 | 22.48 |
| 16 | 1.030/1.026 | 26.16/26.06 | 1.075 | 27.31 |
| 17 | 1.104/1.100 | 28.04/27.94 | 1.135 | 28.83 |
| 16 | 1.235/1.231 | 31.37/31.27 | 1.260 | 32.00 |
| 21 | 1.353/1.349 | 34.37/34.26 | 1.385 | 35.18 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads
# Hermetic Square Flange Connector Dimensions
## 801-012-02

## DIMENSIONS

| Shell Size | A In. | A mm. | B BSC In. | B BSC mm. | Ø C In. | Ø C mm. | Ø D In. | Ø D mm. | E Thread | Ø F In. | Ø F mm. | Ø G Tail Dia |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | .530 | 13.46 | .363 | 9.22 | .680 | 17.27 | .096/.091 | 2.44/2.31 | .3125-.05P-.1L-2A | .244 | 6.20 | #23 .018/.022 (0.46/0.56) #20 .024/.028 (0.61/0.71) #16 .060/.064 (1.52/1.63) #12 .092/.096 (2.34/2.44) |
| 6 | .590 | 14.99 | .423 | 10.74 | .750 | 19.05 | | | .3750-.05P-.1L-2A | .330 | 8.38 | |
| 7 | .650 | 16.51 | .483 | 12.27 | .850 | 21.59 | | | .4375-.05P-.1L-2A | .432 | 10.97 | |
| 8 | .712 | 18.08 | .545 | 13.84 | .938 | 23.83 | | | .5000-.05P-.1L-2A | .493 | 12.52 | |
| 9 | .850 | 21.59 | .607 | 15.42 | 1.125 | 28.58 | .130/.126 | 3.30/3.20 | .5625-.05P-.1L-2A | .551 | 14.00 | |
| 10 | .890 | 22.61 | .670 | 17.02 | 1.188 | 30.18 | | | .6250-.05P-.1L-2A | .620 | 15.75 | |
| 11 | .935 | 23.75 | .715 | 18.03 | 1.250 | 31.75 | | | .6875-.05P-.1L-2A | .662 | 16.81 | |
| 13 | 1.030 | 26.16 | .812 | 20.62 | 1.375 | 34.93 | | | .8125-.1P-.2L-2A | .703 | 17.86 | |
| 16 | 1.219 | 31.96 | .981 | 24.92 | 1.625 | 41.28 | | | 1.0000-.1P-.2L-2A | .863 | 21.92 | |
| 17 | 1.280 | 32.51 | 1.060 | 26.92 | 1.700 | 43.18 | | | 1.0625-.1P-.2L-2A | .912 | 23.16 | |
| 19 | 1.432 | 36.37 | 1.191 | 30.25 | 1.900 | 48.26 | | | 1.8750-.1P-.2L-2A | 1.018 | 25.86 | |
| 21 | 1.565 | 39.75 | 1.322 | 33.58 | 2.100 | 53.34 | | | 1.3125-.1P-.2L-2A | 1.170 | 29.72 | |

## SERIES 801 PANEL CUTOUT

| Shell Size | Ø A In | Ø A mm. | B BSC In | B BSC mm. | Ø C In | Ø C mm. |
|---|---|---|---|---|---|---|
| 5 | .330 | 8.38 | .363 | 9.22 | .096/.091 | 2.44/2.31 |
| 6 | .390 | 9.91 | .423 | 10.74 | | |
| 7 | .450 | 11.43 | .483 | 12.27 | | |
| 8 | .510 | 12.95 | .545 | 13.84 | | |
| 9 | .575 | 14.61 | .607 | 15.42 | .130/.126 | 3.30/3.20 |
| 10 | .640 | 16.26 | .670 | 17.02 | | |
| 11 | .700 | 17.78 | .715 | 18.03 | | |
| 13 | .825 | 20.96 | .812 | 20.62 | | |
| 16 | 1.015 | 25.78 | .981 | 24.92 | | |
| 17 | 1.075 | 27.31 | 1.060 | 26.92 | | |
| 19 | 1.200 | 30.48 | 1.191 | 30.25 | | |
| 21 | 1.330 | 33.78 | 1.322 | 33.58 | | |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads
# Hermetic Solder Mount Connector Dimensions
## 801-012-03

***Solder Mount Hermetic***
801-012-03

D

| DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | Ø A | | B Thread | Ø C | | Ø D Panel Cutout | | Ø E Tail Dia. |
| | In. | mm. | | In. | mm. | In. | mm. | |
| 5 | .395 | 10.03 | .3125-.05P-.1L-2A | .244 | 6.20 | .319 | 8.10 | #23 .018/.022 (0.46/0.56) |
| 6 | .455 | 11.56 | .375-.05P-.1L-2A | .330 | 8.38 | .376 | 9.55 | |
| 7 | .520 | 13.21 | .4375-.05P-1L-2A | .432 | 11.97 | .438 | 11.13 | #20 .024/.028 (0.61/0.71) |
| 8 | .580 | 14.73 | .5000-.05P-1L-2A | .493 | 12.52 | .438 | 11.13 | |
| 9 | .645 | 16.38 | .5625-.05P-.1L-2A | .551 | 14.00 | .563 | 14.30 | |
| 10 | .705 | 18.01 | .6250-.05P-1L-2A | .620 | 15.75 | .438 | 11.13 | #16 .060/.064 (1.52/1.63) |
| 13 | .895 | 22.73 | .8125-.1P-.2L-2A | .703 | 17.86 | .814 | 20.68 | |
| 16 | 1.080 | 27.43 | 1.000-.1P-.2L-2A | .863 | 21.92 | 1.007 | 25.58 | #12 .092/.096 (2.34/2.44) |
| 17 | 1.145 | 29.08 | 1.062-.1P-.2L-2A | .912 | 23.16 | 1.067 | 27.10 | |
| 21 | 1.395 | 35.43 | 1.3125-.1P-.2L-2A | 1.170 | 29.72 | 1.320 | 33.53 | |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Bulkhead Feedthrough Receptacle Connector

## 801-074-07 Jam Nut

*Series 801 Feedthrough*

This series 801 bulkhead feedthrough receptacle is available in shell sizes 5 to 21 and mates with all high densisty plug connectors with the same polarization and opposite contact genders (801-001, 801-002, 801-007, and 801-008). Copper alloy gold-plated contacts, pins to pin, pin to socket or socket to socket. Your choice of standard aluminum alloy or stainless steel and seven standard finishes (see below). Please contact the factory for other materials and finishes. UN mating thread.



## HOW TO ORDER

**Sample Part Number**

| 801-074 | -07 | M | 6-7 | P | P | N |
|---|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** Jam Nut Side | **Contact Type** Other Side | **Shell Key Position** |
| **801-074**<br>Feedthrough Receptacle Jam Nut Mount | <br>**-07**<br>Jam Nut | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | **P**<br>Pin<br>**S**<br>Socket | **P**<br>Pin<br>**S**<br>Socket | **A**<br>Pos. A<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 800 Mighty Mouse with UN Mating Thread Bulkhead Feedthrough Receptacle Connector

## 801-074-07 Jam Nut

### DIMENSIONS

| Shell Size | A Thread | E Thread | Ø B | | C Flat | | D Flat | |
|---|---|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. | In. | mm. |
| 5 | .3125-.05P-.1L-2A | .3750-28 UN-2A | .575 | 14.61 | .545 | 13.84 | .348 | 8.84 |
| 6 | .3750-.05P-.1L-2A | .4375-28 UNEF-2A | .635 | 16.13 | .595 | 15.11 | .408 | 10.36 |
| 7 | .4375-.05P-.1L-2A | .5625-32 UN-2A | .755 | 19.18 | .723 | 18.36 | .534 | 13.56 |
| 8 | .5000-.05P-.1L-2A | .5625-32 UN-2A | .755 | 19.18 | .723 | 18.36 | .534 | 13.56 |
| 9 | .5625-.05P-.1L-2A | .6250-28 UN-2A | .830 | 21.08 | .790 | 20.07 | .594 | 15.09 |
| 10 | .6250-.05P-.1L-2A | .6875-28 UN-2A | .890 | 22.61 | .855 | 21.72 | .656 | 16.66 |
| 11 | .6875-.05P-.1L-2A | .7500-28 UN-2A | .960 | 24.38 | .925 | 23.50 | .716 | 18.19 |
| 13 | .8125-.1P-.1L-2A | .8750-28 UN-2A | 1.078 | 27.38 | 1.044 | 26.52 | .843 | 21.41 |
| 16 | 1.0000-.1P-.1L-2A | 1.0625-20 UN-2A | 1.264 | 32.11 | 1.230 | 31.24 | 1.020 | 25.91 |
| 17 | 1.0625-.1P-.1L-2A | 1.1250-28 UN-2A | 1.325 | 33.66 | 1.290 | 32.77 | 1.094 | 27.79 |
| 19 | 1.0625-.1P-.1L-2A | 1.2500-28 UN-2A | 1.450 | 36.83 | 1.415 | 35.94 | 1.225 | 31.12 |
| 21 | 1.3125-.1P-.1L-2A | 1.3750-28 UN-2A | 1.625 | 41.28 | 1.577 | 40.06 | 1.345 | 34.16 |

### SERIES 801 KEY POSITIONS

| PLUG | RECEPTACLE |
|---|---|

| Key Position | Key Rotation | |
|---|---|---|
| | A | B |
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

### SERIES 800 PANEL CUTOUTS

| Shell Size | F Flat | | Ø G | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | .358/.354 | 9.09/8.99 | .385 | 9.78 |
| 6 | .418/.414 | 10.62/10.52 | .448 | 11.38 |
| 7 | .544/.540 | 13.82/13.72 | .573 | 14.55 |
| 8 | .544/.540 | 13.82/13.72 | .573 | 14.55 |
| 9 | .604/.600 | 15.34/13.24 | .635 | 16.13 |
| 10 | .666/.662 | 16.92/16.81 | .698 | 17.73 |
| 11 | .726/.722 | 18.44/18.34 | .760 | 19.30 |
| 13 | .853/.849 | 21.67/21.56 | .885 | 22.48 |
| 16 | 1.030/1.026 | 26.16/26.06 | 1.073 | 27.25 |
| 17 | 1.104/1.100 | 28.04/27.94 | 1.135 | 28.83 |
| 19 | 1.235/1.231 | 31.37/31.27 | 1.260 | 32.00 |
| 21 | 1.355/1.351 | 34.42/34.32 | 1.385 | 35.18 |

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# Series 801 Mighty Mouse Double-Start ACME Threads Sav-Con® Connector Saver Ordering Information

## 801-017

*801-017 Sav-Con®*

***Glenair Sav-Con® Connector Savers*** are designed to protect connectors that are subject to repeated mating and unmating cycles. Sav-Con® Connector Savers prevent costly repair or replacement of expensive connectors while preserving the quality and integrity of the connector by absorbing connect and disconnect abuse.

***Protect Equipment***

Equipment connectors that are mated frequently during manufacturing, test, check-out phases and environmental test programs can be protected by Glenair Sav-Con® Connector Savers.

***Prolong the Service Life of Test Cables***

Glenair Sav-Con® Connector Savers mated to test-cable connectors take the punishment of repetitive matings and unmatings.



## HOW TO ORDER SERIES 801 SAV-CON® CONNECTORS

**Sample Part Number**

| 801-017 | Z1 | 13-37 | P | A |
|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **801-017**<br>Series 801<br>Connector Saver | **C**<br>Aluminum / Black Anodize (Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated<br>RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE D-2 | **P**<br>Pin Contact on Plug Side, Socket Contact on Receptacle Side<br>**S**<br>Socket Contact on Plug Side, Pin Contact on Receptacle Side | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D |

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19 - MARCH - 2013

# Series 801 Mighty Mouse Double-Start ACME Threads
## Sav-Con® Connector Saver
### 801-017

D

| DIMENSIONS | | | |
|---|---|---|---|
| Shell Size | A Threads | Ø B | |
| | | In. | mm. |
| 5 | .3125-.05P-.1L-2 | .540 | 13.72 |
| 6 | .375-.05P-.1L-2 | .600 | 15.24 |
| 7 | .4375-.05P-1L-2 | .680 | 17.27 |
| 8 | .5000-.05P-1L-2 | .750 | 19.05 |
| 9 | .5625-.05P-.1L-2 | .810 | 20.57 |
| 10 | .6250-.05P-1L-2 | .880 | 22.35 |
| 13 | .8125-.1P-.2L-2 | 1.050 | 26.67 |
| 16 | 1.000-.1P-.2L-2 | 1.240 | 31.50 |
| 17 | 1.062-.1P-.2L-2 | 1.300 | 33.02 |
| 21 | 1.3125-.1P-.2L-2 | 1.550 | 39.37 |

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 AMPS, #20HD 7.5 A., #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #20HD 750 VAC, #12 and #16 1800 VAC |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -55° C. to +150° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 55 dB minimum from 100MHz to 1000MHz. |
| Magnetic Permeability | 2.0 µ maximum |
| Durability | 2000 mating cycles |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Seal | Fluorosilicone rubber |
| See Series 80 General Information for complete material and finish specs. | |

## SERIES 801 KEY POSITIONS

| PLUG | RECEPTACLE |
|---|---|

| Key Position | Key Rotation | |
|---|---|---|
| | A | B |
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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*Overmolded Cordset*

***Abrasion-Resistant Polyurethane Jacket*** provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

***90% Tinned Copper Braid*** is terminated directly to connector with stainless steel ***BAND-IT®*** strap.

***Watertight Overmold*** provides strain relief and protection.



# Series 801 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT®*** straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing.

Series 801 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following pages.

| HARSH ENVIRONMENT CORDSET SPECIFICATIONS | |
|---|---|
| Cable Jacket Material | Thermoplastic Polyurethane, Black, Low-Smoke, Zero-Halogen |
| Cable Shield | Tin-Coated Copper Braid, 90% Minimum Coverage |
| Conductors | Silver Coated Stranded Wire, TFE Insulated, Per M22759/11 |
| ***BAND-IT®*** Shield Termination Band | Stainless Steel |
| Current Rating | #23 5 Amps, #20HD 7.5 Amps, #16 13 Amps, #12 23 Amps |
| Test Voltage (Dielectric Withstanding Voltage) | #23 500 VAC, #20HD 750 VAC, #16 and #12 1800 VAC Sea Level |
| Insulation Resistance | 200 megohms minimum |
| Operating Temperature | -30° C. to +105° C. |
| Solvent Resistance, Polyamide Overmold | Excellent Resistance to Most Solvents, Fuels, and Oils; Poor Resistance to Strong Acids and Bipolar Solvents (Alcohol) |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |
| Cable jacket Flammability and Toxicity | Toxicity Index 3.9 per NES 713<br>Oxygen Index 28% per ASTM D-2863<br>Smoke Index 24 per NES 711 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Overmolded Cordset Ordering Information

## 801-026 and 801-034



### SERIES 801 CORDSETS WITH #23 SIGNAL CONTACTS

**Sample Part Number**

| 801-026 | -A | C | 4 | M | 7-10 | N | A | -36 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **801-026** Overmolded Cordset, with size #23 Contacts | **-A** Plug, with Male Pin Contacts<br>**-B** Plug, with Female Socket Contacts<br>**-C** Receptacle, with Male Pin Contacts<br>**-D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **2** #22 AWG<br>**4** #24 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **5-3**<br>**6-4**<br>**6-7**<br>**7-10**<br>**8-13**<br>**9-19**<br>**10-26**<br>**13-37**<br>**16-55**<br>**17-85** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **A** Normal<br>**B** Pos. B<br>**C** Pos. C<br>**D** Pos. D<br>**E** Pos. E<br>**F** Pos. F | Overall Length In Inches 12 Inch Min. |

### SERIES 801 CORDSETS WITH #20HD SIGNAL CONTACTS

**Sample Part Number**

| 801-034 | -A | C | 0 | M | 7-25 | N | A | -36 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **801-034** Overmolded Cordset, with size #20HD Contacts | **-A** Plug, with Male Pin Contacts<br>**-B** Plug, with Female Socket Contacts<br>**-C** Receptacle, with Male Pin Contacts<br>**-D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **0** #20 AWG<br>**2** #22 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **6-23**<br>**7-25**<br>**8-28**<br>**9-210**<br>**13-220**<br>**16-235**<br>**17-241** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **A** Normal<br>**B** Pos. B<br>**C** Pos. C<br>**D** Pos. D<br>**E** Pos. E<br>**F** Pos. F | Overall Length In Inches 12 Inch Min. |

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# Series 801 Mighty Mouse Double-Start ACME Threads Overmolded Cordset Ordering Information

## 801-031 and 801-032

Glenair®



## SERIES 801 CORDSETS WITH #16 POWER CONTACTS

**Sample Part Number**

| 801-031 | -C | D | 6 | Z1 | 13-7 | P | A | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **801-031**<br>Overmolded Cordset, with Size #16 Contacts | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **6**<br>#16 AWG<br>**8**<br>#18 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **6-1**<br>**8-2**<br>**9-4**<br>**10-5**<br>**13-7**<br>**16-12**<br>**17-14** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F | Overall Length In Inches<br><br>12 Inch Min. |

## SERIES 801 CORDSETS WITH #12 POWER CONTACTS

**Sample Part Number**

| 801-032 | -B | N | 2 | NF | 17-7 | N | A | -48 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **801-032**<br>Overmolded Cordset, with Size #12 Contacts | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#12 AWG<br>**4**<br>#14 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **7-1**<br>**10-2**<br>**13-2**<br>**13-3**<br>**16-5**<br>**17-7** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F | Overall Length In Inches<br><br>12 Inch Min. |

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# Series 801 Mighty Mouse Double-Start ACME Threads Overmolded Cordset Dimensions

## RIGHT ANGLE CORDSETS

***How To Order Right Angle Cordsets***

Insert the letter "**R**" after the End A or End B Connector letter designator.

***Example***

| | |
|---|---|
| Straight cable | 801-026-AC4Z16-4PA-72 |
| Right Angle | 801-026-A***R***C***R***4Z16-4PA-72 |

## DIMENSIONS

| Shell Size | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **5** | 2.2 | 55.88 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 1.9 | 48.26 |
| **6** | 2.2 | 55.88 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 1.9 | 48.26 |
| **7** | 2.2 | 55.88 | 0.7 | 17.78 | 1.5 | 38.1 | 0.7 | 17.78 | 2.1 | 53.34 |
| **8** | 2.3 | 58.42 | 0.75 | 19.05 | 1.6 | 40.64 | 0.75 | 19.05 | 2.2 | 55.88 |
| **9** | 2.6 | 66.04 | 0.85 | 21.59 | 1.9 | 48.26 | 0.85 | 21.59 | 2.4 | 60.96 |
| **10** | 2.6 | 66.04 | 0.85 | 21.59 | 1.9 | 48.26 | 0.85 | 21.59 | 2.4 | 60.96 |
| **13** | 2.9 | 73.66 | 1.1 | 27.94 | 2.2 | 55.88 | 1.1 | 27.94 | 2.9 | 73.66 |
| **16** | 3.2 | 81.28 | 1.3 | 33.02 | 2.5 | 63.5 | 1.3 | 33.02 | 3.3 | 83.82 |
| **17** | 3.7 | 93.98 | 1.4 | 35.56 | 3.0 | 76.2 | 1.4 | 35.56 | 3.5 | 88.90 |

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# Series 801 Mighty Mouse Double-Start ACME Threads
## Metal Protective Cover Ordering Information
### 667-217 and 667-218

Glenair®

***Protect Connectors From Damage*** Machined aluminum covers have rubber gaskets for a watertight fit.

***Stainless Steel Fittings and Rings*** Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

***Polyurethane-Coated SST Wire Rope*** offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

***Braided Nylon Rope*** provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.



## HOW TO ORDER

**Sample Part Number**

| 667-217 | -M | -G | 9 | 04 | -6 |
|---|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Attachment Type** | **Shell Size** | **Attachment Code** | **Attachment Length in Inches** |
| **667-217** Protective Cover for use with Series 801 Plugs<br> **667-218** Protective Cover for use with Series 801 Receptacles | **C** Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M** Aluminum / Electroless Nickel RoHS Compliant<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZN** Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1** Stainless Steel / Passivated RoHS Compliant | **-G** Nylon Rope<br>**-H** SST Wire Rope, Teflon® Jacket<br>**-N** No Attachment<br>**-S** SST Sash Chain<br>**-SK** Nylon Rope With Slip Knot<br>**-T** SST Wire Rope, No Jacket<br>**-U** SST Wire Rope, Polyurethane Jacket<br>"SST" = Stainless Steel | **5**<br>**6**<br>**7**<br>**8**<br>**9**<br>**10**<br>**13**<br>**16**<br>**17**<br>**21** | Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot)<br> Small Ring<br>**01** – .126 (3.20) I.D.<br>**02** – .145 (3.68) I.D.<br>**04** – .188 (4.78) I.D.<br>**06** – .197 (5.00) I.D.<br> Large Ring<br>**14** – .385 (9.78) I.D.<br>**15** – .445 (11.30) I.D.<br>**16** – .570 (14.48) I.D.<br>**17** – .635 (16.13) I.D.<br>**18** – .695 (17.65) I.D.<br>**19** – .885 (22.48) I.D.<br>**20** – 1.070 (27.17) I.D.<br>**21** – 1.135 (28.83) I.D.<br>**22** – 1.210 (30.73) I.D.<br>**23** – 1.275 (32.39) I.D.<br>**24** – 1.375 (34.94) I.D.<br> Split Ring<br>**50** – .420 (10.67) I.D.<br>**52** – .480 (12.19) I.D.<br>**54** – .635 (16.13) I.D.<br>**56** – .745 (18.92) I.D.<br>**58** – .885 (22.48) I.D.<br>**60** – 1.010 (25.65) I.D.<br>**64** – 1.125 (28.58) I.D.<br>**68** – 1.345 (34.16) I.D. | Omit for attachment Type **N** (No Attachment) **Example** "-6" equals six inch length |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse Double-Start ACME Threads Metal Protective Cover Dimensions

## 667-217 and 667-218



## Attaching a 667-218 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 5 | .385 | 9.78 | .510 | 12.95 |
| 15 | 6 | .445 | 11.30 | .565 | 14.35 |
| 16 | 7, 8 | .570 | 14.48 | .685 | 17.40 |
| 17 | 9 | .635 | 16.13 | .760 | 19.30 |
| 18 | 10 | .695 | 17.65 | .820 | 20.82 |
| 19 | 13 | .885 | 22.48 | 1.010 | 25.65 |
| 20 | 16 | 1.070 | 27.17 | 1.195 | 30.35 |
| 21 | 17 | 1.135 | 28.83 | 1.250 | 31.75 |
| 24 | 21 | 1.375 | 34.93 | 1.490 | 37.85 |

## Attaching a Cover to a Panel With a Screw

Small Ring for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 04 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

## Attaching a Cover to a Cable Assembly With a Solid Ring

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 15 | 7 | .445 | 11.30 | .565 | 14.35 |
| 16 | 8, 9 | .570 | 14.48 | .685 | 17.40 |
| 18 | 10, 13 | .695 | 17.65 | .820 | 20.82 |
| 20 | 16, 17 | 1.070 | 27.17 | 1.195 | 30.35 |
| 22 | 21 | 1.210 | 30.73 | 1.312 | 33.32 |

## Attaching a Cover to a Cable Using a Split Ring

Large Split Ring for Attaching Covers to Cables

| Dia. Code | Max. Cable Dia. (in.) | Ring Diameter Min. ID In. | Ring Diameter Min. ID mm. | Ring Diameter Max. OD In. | Ring Diameter Max. OD mm. |
|---|---|---|---|---|---|
| 50 | .410 | .420 | 10.67 | .580 | 14.73 |
| 52 | .470 | .480 | 12.19 | .640 | 16.26 |
| 54 | .625 | .635 | 16.13 | .796 | 20.22 |
| 56 | .735 | .745 | 18.92 | .905 | 22.99 |
| 58 | .875 | .885 | 22.48 | 1.046 | 26.57 |
| 60 | 1.000 | 1.010 | 25.65 | 1.171 | 29.74 |
| 64 | 1.115 | 1.125 | 28.58 | 1.285 | 32.64 |
| 68 | 1.335 | 1.345 | 34.16 | 1.505 | 38.23 |

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# Series 801 Mighty Mouse Double-Start ACME Threads
## Metal Protective Cover Dimensions
### 667-217 and 667-218

*667-217 Plug Cover*

*667-218 Receptacle Cover*

| Shell Size | A Max. | | B Max. | | C |
|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | |
| 5 | .465 | 11.81 | .488 | 12.40 | .3125-.05P-1L |
| 6 | .525 | 13.34 | .555 | 14.10 | .375-.05P-1L |
| 7 | .590 | 14.99 | .615 | 15.62 | .4375-.05P-1L |
| 8 | .653 | 16.59 | .675 | 17.15 | .5000-.05-.1L |
| 9 | .715 | 18.16 | .840 | 21.34 | .5625-.05P-.1L |
| 10 | .778 | 19.76 | .905 | 22.95 | .6250-.05P-1L |
| 13 | .965 | 24.51 | .995 | 25.27 | .8125-.1P-.2L |
| 16 | 1.150 | 29.21 | 1.261 | 32.03 | 1.000-.1P-.2L |
| 17 | 1.215 | 30.86 | 1.321 | 33.55 | 1.062-.1P-.2L |
| 21 | 1.477 | 37.52 | 1.570 | 39.88 | 1.3125-.1P-.2L |

| MATERIALS AND FINISHES | |
|---|---|
| Cover | Aluminum alloy or stainless steel |
| Gasket | Silicone rubber |
| Wire,Hardware | Stainless steel, passivated |

| LANYARD OPTIONS | |
|---|---|
| **Nylon Rope** | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter |
| **Polyurethane Coated Wire Rope** | Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter |
| **Teflon® Jacketed Wire Rope** | Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter |
| **Sash Chain** | Stainless steel, #8 chain, .240" (6mm) |
| **Slip Knot (SK)** for Attaching Covers to Cable | 55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop. |

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# Series 801 Mighty Mouse Double-Start ACME Threads Rubber Protective Cover Ordering Information

## 809-190 and 809-191

These *splashproof molded rubber covers* fit all Series 801 plugs and receptacles. Braided black nylon lanyard is available with metal rings, cable tie or slipknot for attachment to panel or to cable. -40º to +120º C operating temperature, fungus resistant per MIL-STD-810G Method 508.6.

| MATERIALS | |
|---|---|
| Cover | Neoprene rubber blend, black |
| Lanyard | .062" (1.57) diameter nylon cord, black |
| Cable Tie | 6/6 nylon, black, SST locking tab |
| Ring | Stainless steel, black zinc-cobalt finish |
| Crimp Sleeve | Copper Alloy, black zinc-cobalt finish |

D

## HOW TO ORDER

**Sample Part Number**

| 809-191 | - 05 | G | 6 | - SCS | C |
|---|---|---|---|---|---|
| **Series** | **Shell Size** | **Lanyard Type** | **Lanyard Length** | **Attachment Code** | **Conductive Rubber** |
| **809-190** Protective Cover for use with Series 801 Receptacles | -05<br>-06<br>-07<br>-08<br>-09<br>-10<br>-13<br>-16<br>-17 | -G Nylon Rope<br><br>(Omit for no lanyard) | Length in Inches | **-WS** Nylon Cable Tie, 1.77 Inch (45mm) Maximum Wire Bundle Diameter | Omit for Standard Neoprene<br><br>C Conductive Rubber |
| | | | | **-SCS** Adjustable Slip Knot with Crimp Sleeve. The sleeve can be crimped with pliers for a permanent attachment. | |
| | | | | **-00** Lanyard With No Attachment (Fused End) | |
| | | | | **Lug Terminals and Rings** | |
| **809-191** Protective Cover for use with Series 801 Plugs | | | | Lug Terminal | -01 – .126 (3.20) I.D.<br>-02 – .145 (3.68) I.D.<br>-06 – .188 (4.78) I.D.<br>-07 – .197 (5.00) I.D. |
| | | | | Solid Ring | -08 – .385 (9.78) I.D.<br>-09 – .445 (11.30) I.D.<br>-10 – .516 (13.11) I.D.<br>-11 – .570 (14.48) I.D.<br>-12 – .583 (14.81) I.D.<br>-13 – .635 (16.13) I.D.<br>-14 – .695 (17.65) I.D.<br>-15 – .776 (19.71) I.D.<br>-16 – .885 (22.48) I.D.<br>-17 – .896 (25.76) I.D.<br>-18 – 1.015 (25.78) I.D.<br>-19 – 1.070 (27.18) I.D.<br>-20 – 1.135 (28.83) I.D.<br>-21 – 1.141 (28.98) I.D. | |

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# Series 801 Mighty Mouse Double-Start ACME Threads Rubber Protective Cover Ordering Information

## 809-190 and 809-191

Glenair®

## Attaching a 809-190 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 08 | 5 | .385 | 9.78 | .510 | 12.95 |
| 09 | 6 | .445 | 11.30 | .565 | 14.35 |
| 11 | 7, 8 | .570 | 14.48 | .685 | 17.40 |
| 13 | 9 | .635 | 16.13 | .760 | 19.30 |
| 14 | 10 | .695 | 17.65 | .820 | 20.82 |
| 16 | 13 | .885 | 22.48 | 1.010 | 25.65 |
| 19 | 16 | 1.070 | 27.17 | 1.195 | 30.35 |
| 20 | 17 | 1.135 | 28.83 | 1.250 | 31.75 |

## Attaching a Cover to a Cable Assembly With a Solid Ring

Large Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 08 | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 09 | 7 | .445 | 11.30 | .565 | 14.35 |
| 11 | 8, 9 | .570 | 14.48 | .685 | 17.40 |
| 14 | 10, 13 | .695 | 17.65 | .820 | 20.82 |
| 19 | 16, 17 | 1.070 | 27.17 | 1.195 | 30.35 |

## Attaching a Cover to a Panel With a Screw

Lug Terminal for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 06 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 07 | #10 | .197 | 5.00 | .31 | 7.9 |

## Attaching a Cover to a Cable Assembly With Type WS Cable Tie

## Attaching a Cover to a Cable Assembly With Type SCS Slip Knot

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# Series 801 Mighty Mouse Double-Start ACME Threads Rubber Protective Cover Ordering Information

## 809-190 and 809-191

| 809-190 RECEPTACLE COVER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | Ø A | | Ø B | | C | | D | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 05 | .28 | 7.1 | .41 | 10.4 | .31 | 7.9 | .62 | 15.7 |
| 06 | .35 | 8.9 | .47 | 11.9 | .31 | 7.9 | .62 | 15.7 |
| 07 | .41 | 10.4 | .53 | 13.5 | .31 | 7.9 | .62 | 15.7 |
| 08 | .47 | 11.9 | .60 | 15.2 | .31 | 7.9 | .62 | 15.7 |
| 09 | .53 | 13.5 | .66 | 16.8 | .31 | 7.9 | .62 | 15.7 |
| 10 | .60 | 15.2 | .72 | 18.3 | .31 | 7.9 | .62 | 15.7 |
| 13 | .78 | 19.8 | .91 | 23.1 | .31 | 7.9 | .62 | 15.7 |
| 16 | .97 | 24.6 | 1.10 | 27.9 | .31 | 7.9 | .62 | 15.7 |
| 17 | 1.03 | 26.2 | 1.16 | 29.5 | .31 | 7.9 | .62 | 15.7 |

| 809-191 PLUG COVER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | Ø A | | Ø B | | C | | D | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 05 | .51 | 13.0 | .70 | 17.8 | .375 | 9.5 | .875 | 22.2 |
| 06 | .57 | 14.5 | .76 | 19.3 | .375 | 9.5 | .875 | 22.2 |
| 07 | .66 | 16.8 | .85 | 21.6 | .375 | 9.5 | .875 | 22.2 |
| 08 | .72 | 18.3 | .91 | 23.1 | .375 | 9.5 | .875 | 22.2 |
| 09 | .78 | 19.8 | .97 | 24.6 | .375 | 9.5 | .875 | 22.2 |
| 10 | .85 | 21.6 | 1.03 | 26.2 | .375 | 9.5 | .875 | 22.2 |
| 13 | 1.00 | 25.4 | 1.21 | 30.7 | .375 | 9.5 | .875 | 22.2 |
| 16 | 1.21 | 30.7 | 1.40 | 35.6 | .375 | 9.5 | .875 | 22.2 |
| 17 | 1.27 | 32.3 | 1.46 | 37.1 | .375 | 9.5 | .875 | 22.2 |

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# Series 802 Aqua Mouse
# 3500 PSI Submersible Connectors
## Table of Contents & Product Selection Guide

Glenair®

## SERIES 802 AQUAMOUSE PRODUCT SELECTION GUIDE

***Plugs***
**Page E-4**
**802-008, 802-009**

### Series 802 Plugs
"Aqua Mouse" plugs are available in two versions. Select integral molding/banding platform for direct attachment of cable shield and overmolds without the need for an adapter. Or choose plugs with rear accessory thread for attachment of cable sealing backshells. Crimp contacts are packaged with connectors.

***Crimp Receptacles***
**Page E-6**
**802-010, 802-011**

### Series 802 Receptacles for Insulated Wire
Jam nut for rear panel mounting, square flange and in-line versions make it easy to find a style for every application. The integral shield termination platform can be used for overmolding, or select accessory threads for use with a variety of strain relief options. Contacts are crimp-type and are packaged with the connector.

***Solder Cup/PCB Receptacles***
**Page E-10**
**802-012, 802-030**

### Series 802 Receptacles for PCB or Solder Cup Termination
These panel mount connectors feature gold plated, factory-installed PC tail contacts or solder cup contacts. Contacts are non-removable. Connectors are backfilled with epoxy potting compound.

***Hermetic Receptacles***
**Page E-14**
**802-013**

### Series 802 Hermetic Receptacles
Need a miniaturized hermetic for a sealed box or instrument? These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. Choose jam nut, square flange or weld mount versions. Contacts are gold plated iron alloy. 100% tested to meet 1 X $10^{-6}$ cc/sec helium leakage. Open face pressure rating 1000 PSI.

***Cordsets***
**Page E-19**
**802-019, 802-022, 802-026, 802-027, 802-028, 802-029, 802-032, 802-033**

### Series 802 Cordsets
Specify overmolded cordsets for optimum convenience and performance. Low smoke zero-halogen polyurethane offers excellent abrasion and chemical resistance. Choose polyamide overmold for medium duty low pressure applications, or select thermoset polyurethane overmold for maximum performance and 2500 PSI rating.

***Protective Covers***
**Page E-23**
**800-034, 800-041, 800-038, 800-039**

### Series 802 Protective Covers
Thread-on metal covers provide a watertight seal and prevent damage. Plug covers are 316 stainless steel, and receptacle covers are marine bronze.

Dimensions in inches (millimeters) and are subject to change without notice.

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Rev. 01-JANUARY-2010

# Series 802 “Aqua Mouse”
# 3500 PSI Submersible Connectors
## Contact Arrangements



## CONTACT ARRANGEMENTS

| Contact Arr. | No. of Contacts | | | | |
|---|---|---|---|---|---|
| | #23 | #20 | #20HD | #16 | #12 |
| 5-3 | 3 | | | | |
| 6-1 | | | | 1 | |
| 6-23 | | | 3 | | |
| 6-4 | 4 | | | | |
| 6-6 | 6 | | | | |
| 6-7 | 7 | | | | |
| 7-1 | | | | | 1 |
| 7-25 | | | 5 | | |
| 7-10 | 10 | | | | |
| 8-2 | | | | 2 | |
| 8-28 | | | 8 | | |
| 8-13 | 13 | | | | |
| 8-200 | 4 | 2 | | | |
| 9-4 | | | | 4 | |
| 9-210 | | | 10 | | |
| 9-19 | 19 | | | | |
| 9-200 | 4 | | | 2 | |
| 9-201 | 8 | 2 | | | |
| 10-2 | | | | | 2 |
| 10-5 | | | | 5 | |
| 10-26 | 26 | | | | |
| 10-200 | 12 | | | | 1 |
| 10-201 | 4 | | | | 2 |
| 10-202 | 8 | | | 2 | |
| 12-2 | | | | | 2 |
| 12-3 | | | | | 3 |
| 12-7 | | | | 7 | |
| 12-220 | | | 20 | | |
| 12-37 | 37 | | | | |
| 12-200 | 6 | | | | 2 |
| 12-201 | 10 | | | | 2 |
| 14-5 | | | | | 5 |
| 14-12 | | | | 12 | |
| 14-235 | | | 35 | | |
| 14-55 | 55 | | | | |
| 15-7 | | | | | 7 |
| 15-14 | | | | 14 | |
| 15-241 | | | 41 | | |
| 15-85 | 85 | | | | |
| 21-12 | | | | | 12 |
| 21-22 | | | | 22 | |
| 21-269 | | | 69 | | |
| 21-130 | 130 | | | | |

**Mating Face View of Pin Connector**
**(socket connector numbers are reversed)**

Contact Legend
#23 ◦ #20HD ◒ #20 ● #16 ◒ #12 ⊕

5-3 6-1 6-23 6-4 6-6 6-7 7-1 7-25

7-10 8-2 8-200 8-28 8-13 9-4

9-200 9-201 9-210 9-19 10-2 10-5

10-201 10-202 10-200 10-26 12-2 12-3

12-7 12-200 12-201 12-220 12-37 14-5

14-12 14-235 14-55 15-7 15-14 15-241

15-85 21-12 21-22 21-269 21-130

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Rev. 09-January-2013

# Series 802 Aqua Mouse
# 3500 PSI Submersible Connectors
## General Information

**Series 802 Plug**

**Series 802 Receptacle**

***Stainless Steel or Marine Bronze***
Available in ten sizes from 1 to 130 contacts, Series 802 connectors feature 316 stainless steel or marine bronze shells. Viton® o-rings resist high temperature and corrosive chemicals.

***3500 psi***
These connectors withstand up to 3500 PSI hydrostatic pressure in a mated condition. Hermetic versions withstand 1000 PSI open face pressure.

# Glenair's Series 802 *Aqua Mouse* Delivers High-Pressure Sealing and Rugged Design in a Miniature Package

Originally developed for petroleum pipeline inspection equipment, Series 802 connectors withstand exposure to corrosive environments and high pressure. These connectors feature high density crimp Mighty Mouse inserts, 316 stainless steel or marine bronze shells and a "piston" o-ring for hydrostatic sealing. Gold-plated contacts accept #12-30 AWG wire. Printed circuit board receptacles are available, along with hermetic receptacles.

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 AMPS, #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #16 and #12 1800 VAC RMS |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -55° C. to +150° C. |
| Hydrostatic Pressure | 3500 PSI mated, 1000 PSI open face (hermetic) |
| Shock | 300 g. |
| Vibration | 37 g. |
| Durability | 2000 mating cycles |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | 316 stainless steel or marine bronze |
| Coupling Nuts | Marine bronze, unplated |
| Contacts | Copper alloy, 50 µInch gold plated. Socket hood: stainless steel, passivated.<br>Hermetic pin contacts: Nickel-Iron alloy per ASTM-F-30, 50 µInch gold plated. |
| Insulators | Liquid crystal polymer (LCP) , 30% glass-filled |
| Contact Retention Clip | Beryllium copper alloy |
| Interfacial Seal, O-rings | Viton Rubber |
| Interfacial seal, rear grommet | Fluorosilicone rubber, blue |
| O-rings | Viton® |

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# Series 802 Aqua Mouse Submersible Plug Connector Ordering Information

## 802-008 and 802-009

*Series 802 Plug*

***Stainless Steel*** or ***Marine Bronze Shell*** with ***Marine Bronze Coupling Nut*** withstand corrosion in the most hostile environments. Rated for 3500 PSI when mated, these connectors are suitable for the most demanding geophysical and underwater applications.

***Gold-Plated Contacts*** attach to wire with standard mil spec crimp tools. Contacts are packaged with connectors.

***Two Shell Styles:*** Integral platform for direct shield attachment using ***BAND-IT*** termination system, or accessory thread for attaching accessories.



### HOW TO ORDER SERIES 802 PLUGS

**Sample Part Number**

| 802-009 | -06 | Z1 | 9-19 | S | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**802-008**<br>Plug with Banding/ Molding Platform<br> <br>**802-009**<br>Plug with Accessory Thread | **-06**<br>Plug | **Z1**<br>Stainless Steel Shell / Passivated, with Marine Bronze Coupling Nut<br>**ZM**<br>Stainless Steel Shell / Electroless Nickel Plated, with Marine Bronze Coupling Nut<br>**AB**<br>Marine Bronze Shell and Coupling Nut / Unplated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE E-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D |

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Rev. 01-JAN-2010

# Series 802 Aqua Mouse Submersible Plug Connector Dimensions

## 802-008-06 and 802-009-06

### DIMENSIONS

| Shell Size | A Hex | | B Max. | | C | Ø D | | E Threads Accessory |
|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | Mating Threads | In. | mm. | |
| **5** | .500 | 12.70 | .560 | 14.22 | .438-28 UNEF | .232 | 5.90 | .2500-32 UNEF-2A |
| **6** | .625 | 15.88 | .720 | 18.29 | .562-20 UN | .312 | 7.92 | .3125-32 UNEF-2A |
| **7** | .688 | 17.48 | .780 | 19.81 | .625-20 UN | .375 | 9.53 | .4375-28 UNEF-2A |
| **8** | .750 | 19.05 | .860 | 21.84 | .687-20 UN | .438 | 11.13 | .5000-28 UNEF-2A |
| **9** | .812 | 20.62 | .930 | 23.62 | .750-20 UNEF | .500 | 12.70 | .5625-24 UNEF-2A |
| **10** | .875 | 22.23 | 1.000 | 25.40 | .812-20 UNEF | .562 | 14.27 | .6250-24 UNEF-2A |
| **12** | .938 | 23.83 | 1.060 | 26.92 | .875-20 UNEF | .656 | 16.66 | .6875-24 UNEF-2A |
| **14** | 1.125 | 28.58 | 1.250 | 31.75 | 1.062-20 UN | .812 | 20.62 | .8750-20 UNEF-2A |
| **15** | 1.188 | 30.18 | 1.320 | 33.53 | 1.125-20 UN | .885 | 22.40 | .9375-20 UNEF-2A |
| **21** | 1.562 | 39.67 | 1.700 | 43.18 | 1.437-20 UN | 1.188 | 30.18 | 1.2500-18 UNEF-2A |

### SERIES 802 PLUG KEY POSITIONS

| Key Position | Key Rotation A° | Key Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 Aqua Mouse Submersible Receptacle Ordering Information

## 802-010 and 802-011

*Jam Nut, Rear Mount*

*Square Flange*

***Three Shell Mounting Options:*** Jam nut with o-ring for rear panel mounting, square flange for front panel mounting, or in-line receptacles for free-hanging cables.

***Two Shell Styles:*** Choose the integral band platform for direct attachment of a cable shield. Install a boot, or overmold a boot over the band platform. An accessory thread is available for attaching strain reliefs and backshells.



### HOW TO ORDER SERIES 802 CRIMP RECEPTACLES

Sample Part Number

| 802-011 | -02 | Z1 | 10-26 | P | B |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**802-010**<br>Receptacle with Banding Platform<br> <br>**802-011**<br>Receptacle with Accessory Thread | <br>**-01**<br>In-Line<br> <br>**-02**<br>Square Flange<br> <br>**-07**<br>Jam Nut for Rear Panel Mounting | **Z1**<br>Stainless Steel / Passivated<br>**ZM**<br>Stainless Steel / Electroless Nickel Plated<br>**AB**<br>Marine Bronze / Unplated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE E-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D |

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Rev. 01-JAN-2010

# Series 802 Aqua Mouse Submersible Jam Nut Receptacle Connector Dimensions

## 802-010-07 and 802-011-07

RECEPTACLE WITH INTEGRAL BAND PLATFORM 802-010

RECEPTALE WITH ACCESSORY THREAD 802-011

## DIMENSIONS

| Shell Size | A Max. | | B Flat | | C Mating Threads | D Jam Nut Threads | Ø E | | F Accessory Threads | G Flat | | Ø H | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. ± .003 | mm. ±0.08 | | | In. | mm. | | In. ± .002 | mm. ±0.05 | In. ± .005 | mm. ±0.13 |
| **5** | .885 | 22.48 | .466 | 11.84 | .438-28 UNEF | .500-32 UN-2A | .232 | 5.90 | .2500-32 UNEF-2A | .473 | 12.01 | .510 | 12.95 |
| **6** | 1.010 | 25.65 | .591 | 15.01 | .562-20 UN | .625-28 UN-2A | .312 | 7.92 | .3125-32 UNEF-2A | .603 | 15.32 | .635 | 16.13 |
| **7** | 1.072 | 27.23 | .653 | 16.59 | .625-20 UN | .687-28 UN-2A | .375 | 9.53 | .4375-28 UNEF-2A | .662 | 16.81 | .698 | 17.73 |
| **8** | 1.135 | 28.83 | .716 | 18.19 | .687-20 UN | .750-28 UN-2A | .438 | 11.13 | .5000-28 UNEF-2A | .714 | 18.14 | .760 | 19.30 |
| **9** | 1.195 | 30.35 | .778 | 19.76 | .750-20 UNEF | .812-28 UN-2A | .500 | 12.70 | .5625-24 UNEF-2A | .785 | 19.94 | .822 | 20.88 |
| **10** | 1.260 | 32.00 | .827 | 21.01 | .812-20 UNEF | .875-28 UN-2A | .562 | 14.27 | .6250-24 UNEF-2A | .835 | 21.21 | .885 | 22.48 |
| **12** | 1.322 | 33.58 | .890 | 22.61 | .875-20 UNEF | .938-28 UN-2A | .656 | 16.66 | .6875-24 UNEF-2A | .899 | 22.83 | .948 | 24.08 |
| **14** | 1.510 | 38.25 | 1.077 | 27.36 | 1.062-20 UN | 1.125-28 UN-2A | .812 | 20.62 | .8750-20 UNEF-2A | 1.085 | 27.56 | 1.135 | 28.83 |
| **15** | 1.572 | 39.93 | 1.140 | 28.96 | 1.125-20 UN | 1.188-28 UN-2A | .885 | 22.40 | .9375-20 UNEF-2A | 1.155 | 29.34 | 1.198 | 30.43 |
| **21** | 1.940 | 49.28 | 1.464 | 37.19 | 1.4375-20 UN | 1.500-28 UN-2A | 1.188 | 30.18 | 1.2500-20 UNEF-2A | 1.473 | 37.41 | 1.510 | 39.12 |

## SERIES 802 RECEPTACLE KEY POSITIONS

| Key Position | Key Rotation A° | Key Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

RECOMMENDED PANEL CUTOUT

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 Aqua Mouse Submersible Square Flange Receptacle Connector Dimensions

## 802-010-02 and 802-011-02

E

## DIMENSIONS

| Shell Size | A Square | | B Bsc. | | C Mating Threads | Ø D | | E Accessory Threads | Ø F | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | | In. | mm. | | In. | mm. |
| **5** | .885 | 22.48 | .500 | 12.70 | .438-28 UNEF | .232 | 5.90 | .2500-32 UNEF-2A | .327 | 8.31 |
| **6** | 1.010 | 25.65 | .625 | 15.88 | .562-20 UN | .312 | 7.92 | .3125-32 UNEF-2A | .390 | 9.91 |
| **7** | 1.072 | 27.23 | .688 | 17.48 | .625-20 UN | .375 | 9.53 | .4375-28 UNEF-2A | .515 | 13.08 |
| **8** | 1.135 | 28.83 | .750 | 19.05 | .687-20 UN | .438 | 11.13 | .5000-28 UNEF-2A | .577 | 14.66 |
| **9** | 1.195 | 30.35 | .812 | 20.62 | .750-20 UNEF | .500 | 12.70 | .5625-24 UNEF-2A | .640 | 16.26 |
| **10** | 1.260 | 32.00 | .875 | 22.23 | .812-20 UNEF | .562 | 14.27 | .6250-24 UNEF-2A | .702 | 17.83 |
| **12** | 1.322 | 33.58 | .938 | 23.83 | .875-20 UNEF | .656 | 16.66 | .6875-24 UNEF-2A | .765 | 19.43 |
| **14** | 1.510 | 38.25 | 1.125 | 28.58 | 1.062-20 UN | .812 | 20.62 | .8750-20 UNEF-2A | .953 | 24.21 |
| **15** | 1.573 | 39.95 | 1.188 | 30.18 | 1.125-20 UN | .885 | 22.40 | .9375-20 UNEF-2A | 1.015 | 25.78 |
| **21** | 1.750 | 44.45 | 1.375 | 34.93 | 1.4375-20 UN | 1.188 | 30.18 | 1.2500-20 UNEF-2A | 1.312 | 33.32 |

## SERIES 802 RECEPTACLE KEY POSITIONS

| Key Position | Key Rotation A° | Key Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

## SERIES 802 SQ FLANGE PANEL CUTOUT

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# Series 802 Aqua Mouse Submersible In-Line Receptacle Connector Dimensions

## 802-010-01 and 802-011-01

IN-LINE RECEPTABLE WITH
INTEGRAL BAND PLATFORM
802-010

IN-LINE RECEPTACLE WITH
ACCESSORY THREAD
802-011

## DIMENSIONS

| Shell Size | Ø A | | B Flats | | C Mating Threads | Ø D | | E Accessory Threads |
|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | | In. | mm. | |
| **5** | .560 | 14.22 | .500 | 12.70 | .438-28 UNEF | .232 | 5.90 | .2500-32 UNEF-2A |
| **6** | .720 | 18.29 | .625 | 15.88 | .562-20 UN | .312 | 7.92 | .3125-32 UNEF-2A |
| **7** | .780 | 19.81 | .688 | 17.48 | .625-20 UN | .375 | 9.53 | .4375-28 UNEF-2A |
| **8** | .860 | 21.84 | .750 | 19.05 | .687-20 UN | .438 | 11.13 | .5000-28 UNEF-2A |
| **9** | .930 | 23.62 | .812 | 20.62 | .750-20 UNEF | .500 | 12.70 | .5625-24 UNEF-2A |
| **10** | 1.000 | 25.40 | .875 | 22.23 | .812-20 UNEF | .562 | 14.27 | .6250-24 UNEF-2A |
| **12** | 1.060 | 26.92 | .938 | 23.83 | .875-20 UNEF | .656 | 16.66 | .6875-24 UNEF-2A |
| **14** | 1.250 | 31.75 | 1.125 | 28.58 | 1.062-20 UN | .812 | 20.62 | .8750-20 UNEF-2A |
| **15** | 1.320 | 33.53 | 1.188 | 30.18 | 1.125-20 UN | .885 | 22.40 | .9375-20 UNEF-2A |
| **21** | 1.690 | 42.93 | 1.562 | 39.67 | 1.4375-20 UN | 1.188 | 30.18 | 1.2500-20 UNEF-2A |

## SERIES 802 RECEPTACLE KEY POSITIONS

| Key Position | Key Rotation A° | Key Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 802 Aqua Mouse Submersible Solder Cup or PCB Receptacle Ordering Information

## 802-012 and 802-030

***Square Flange Receptacle with PCB Contacts***

***Printed Circuit Board/ Solder Cup Receptacles*** feature low profile shells for minimum protrusion inside enclosures and integral standoffs for board washout. Contacts are non-removable.

***Water Immersion, Unmated***

Specify ***802-012*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***802-030*** watertight connectors . These 802-030 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x $10^{-4}$ cc/second at one atmosphere pressure differential from -40C to +70C.

**HOW TO ORDER SERIES 802 PCB / SOLDER CUP RECEPTACLES**

**Sample Part Number**

| 802-012 | -00 | Z1 | 9-200 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **802-012**<br>Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting<br><br>**802-030**<br>Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. | <br>**-02**<br>Square Flange<br> <br>**-00**<br>Jam Nut for Front Panel Mounting<br> <br>**-07**<br>Jam Nut for Rear Panel Mounting | **Z1**<br>Stainless Steel / Passivated<br><br>**ZM**<br>Stainless Steel / Electroless Nickel Plated<br><br>**AB**<br>Marine Bronze / Unplated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE E-2 | **P**<br>Pin, PC Tail<br><br>**S**<br>Socket, PC Tail<br><br>**E**<br>Pin, Solder Cup<br><br>**F**<br>Socket, Solder Cup | **A**<br>Normal<br><br>**B**<br>Pos. B<br><br>**C**<br>Pos. C<br><br>**D**<br>Pos. D |

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# Series 802 Aqua Mouse Submersible Square Flange Receptacle Connector Dimensions

## 802-012-02, 802-030-02

| DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Shell Size | A Square | | B Bsc. | | C Mating Threads | Ø D Tail Dia. | Ø E | |
| | In. | mm. | In. | mm. | | | In. | mm. |
| **5** | .885 | 22.48 | .500 | 12.70 | .438-28 UNEF | **#23** .018/.022 (0.46/0.56) | .327 | 8.31 |
| **6** | 1.010 | 25.65 | .625 | 15.88 | .562-20 UN | | .390 | 9.91 |
| **7** | 1.072 | 27.23 | .688 | 17.48 | .625-20 UN | | .515 | 13.08 |
| **8** | 1.135 | 28.83 | .750 | 19.05 | .687-20 UN | **#20** .024/.028 (0.61/0.71) | .577 | 14.66 |
| **9** | 1.195 | 30.35 | .812 | 20.62 | .750-20 UNEF | | .640 | 16.26 |
| **10** | 1.260 | 32.00 | .875 | 22.23 | .812-20 UNEF | **#16** .060/.064 (1.52/1.63) | .702 | 17.83 |
| **12** | 1.322 | 33.58 | .938 | 23.83 | .875-20 UNEF | | .765 | 19.43 |
| **14** | 1.510 | 38.25 | 1.125 | 28.58 | 1.062-20 UN | | .953 | 24.21 |
| **15** | 1.572 | 39.93 | 1.188 | 30.18 | 1.125-20 UN | **#12** .092/.096 (2.34/2.44) | 1.015 | 25.78 |
| **21** | 1.750 | 44.45 | 1.375 | 34.93 | 1.4375-20 UN | | 1.312 | 33.32 |

## SERIES 802 RECEPTACLE KEY POSITIONS

| Key Position | Key Rotation A° | Key Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

## SERIES 802 SQ FLANGE PANEL CUTOUT

Dimensions in inches (millimeters) and are subject to change without notice.

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Rev. 01-JANUARY-2010

# Series 802 Aqua Mouse Submersible Rear Mount Jam Nut Receptacle Connector Dimensions

## 802-012-07, 802-012-030

SHELL STYLE 07 REAR MOUNT JAM NUT

RECOMMENDED PANEL CUTOUT FOR STYLE 07 REAR MOUNT JAM NUT



### DIMENSIONS

| Shell Size | A Max. In. | A Max. mm. | B Flat In. ± .003 | B Flat mm. ±0.08 | C Mating Threads | D Threads | Ø E Tail Dia. | F Flat In. ± .002 | F Flat mm. ±0.05 | Ø G In. ± .005 | Ø G mm. ±0.13 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | .885 | 22.48 | .466 | 11.84 | .438-28 UNEF | .500-32 UN-2A | #23 .018/.022 (0.46/0.56) | .473 | 12.01 | .510 | 12.95 |
| 6 | 1.010 | 25.65 | .591 | 15.01 | .562-20 UN | .625-28 UN-2A | | .603 | 15.32 | .635 | 16.13 |
| 7 | 1.072 | 27.23 | .653 | 16.59 | .625-20 UN | .687-28 UN-2A | | .662 | 16.81 | .698 | 17.73 |
| 8 | 1.135 | 28.83 | .716 | 18.19 | .687-20 UN | .750-28 UN-2A | #20 .024/.028 (0.61/0.71) | .714 | 18.14 | .760 | 19.30 |
| 9 | 1.195 | 30.35 | .778 | 19.76 | .750-20 UNEF | .812-28 UN-2A | | .785 | 19.94 | .822 | 20.88 |
| 10 | 1.260 | 32.00 | .827 | 21.01 | .812-20 UNEF | .875-28 UN-2A | #16 .060/.064 (1.52/1.63) | .835 | 21.21 | .885 | 22.48 |
| 12 | 1.322 | 33.58 | .890 | 22.61 | .875-20 UNEF | .938-28 UN-2A | | .899 | 22.83 | .948 | 24.08 |
| 14 | 1.510 | 38.25 | 1.077 | 27.36 | 1.062-20 UN | 1.125-28 UN-2A | #12 .092/.096 (2.34/2.44) | 1.085 | 27.56 | 1.135 | 28.83 |
| 15 | 1.572 | 39.93 | 1.140 | 28.96 | 1.125-20 UN | 1.188-28 UN-2A | | 1.155 | 29.34 | 1.198 | 30.43 |
| 21 | 1.940 | 49.28 | 1.464 | 37.19 | 1.4375-20 UN | 1.500-28 UN-2A | | 1.473 | 37.41 | 1.510 | 39.12 |

### SERIES 802 RECEPTACLE KEY POSITIONS

| Key Position | Key Rotation A° | Key Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 “Aqua Mouse” Submersible Front Mount Jam Nut Receptacle Connector Dimensions

## 802-012-00 and 802-030-00

SHELL STYLE 00
FRONT MOUNT JAM NUT



### DIMENSIONS

| Shell Size | A Max. | | B Flat | | C Mating Threads | D Threads | Ø E Tail Dia. | F Flat | | G Hex | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | | | | In. | mm. | In. | mm. |
| **5** | .720 | 18.29 | .625 | 15.88 | .438-28 UNEF-2A | .312-28 UN-2A | **#23** .018/.022 (0.46/0.56) | .281 | 7.14 | .500 | 12.70 |
| **6** | .780 | 19.81 | .750 | 19.05 | .562-20 UN-2A | .438-28 UN-2A | | .344 | 8.74 | .625 | 15.88 |
| **7** | .910 | 23.11 | .812 | 20.62 | .625-20 UN-2A | .500-32 UN-2A | | .469 | 11.91 | .688 | 17.48 |
| **8** | .960 | 24.38 | .875 | 22.23 | .687-20 UN-2A | .562-28 UN-2A | **#20** .024/.028 (0.61/0.71) | .531 | 13.49 | .750 | 19.05 |
| **9** | 1.030 | 26.16 | .937 | 23.80 | .750-20 UNEF-2A | .625-28 UN-2A | | .594 | 15.09 | .812 | 20.62 |
| **10** | 1.090 | 27.69 | 1.000 | 25.40 | .812-20 UNEF-2A | .687-28 UN-2A | **#16** .060/.064 (1.52/1.63) | .656 | 16.66 | .875 | 22.23 |
| **12** | 1.160 | 29.46 | 1.062 | 26.97 | .875-20 UNEF-2A | .750-28 UN-2A | | .719 | 18.26 | .938 | 23.83 |
| **14** | 1.340 | 34.04 | 1.250 | 31.75 | 1.062-20 UN-2A | .938-28 UN-2A | | .893 | 22.68 | 1.125 | 28.58 |
| **15** | 1.410 | 35.18 | 1.312 | 33.32 | 1.125-20 UN-2A | 1.000-28 UN-2A | **#12** .092/.096 (2.34/2.44) | .955 | 24.26 | 1.188 | 30.18 |
| **21** | 1.700 | 43.18 | 1.562 | 39.67 | 1.4375-20 UN-2A | 1.312-28 UN | | 1.257 | 31.93 | 1.500 | 38.10 |

### RECEPTACLE KEY POSITIONS

| Key Position | Rotation A° | Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

### CUTOUT DIMENSIONS

RECOMMENDED PANEL CUTOUT
FOR STYLE 00
FRONT MOUNT JAM NUT

| Shell Size | H Flat | | Ø J | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| **5** | 291/.286 | 7.4/7.3 | .322 | 8.2 |
| **6** | .417/.412 | 10.6/10.5 | .448 | 11.4 |
| **7** | .479/.474 | 12.2/12.0 | .510 | 13.0 |
| **8** | .541/.536 | 13.7/13.6 | .572 | 14.5 |
| **9** | .604/.599 | 15.3/15.2 | .635 | 16.1 |
| **10** | .666/.661 | 16.9/16.8 | .697 | 17.7 |
| **12** | .729/.724 | 18.5/18.4 | .760 | 19.3 |
| **14** | .903/.898 | 22.9/22.8 | .948 | 24.1 |
| **15** | .965/.960 | 24.5/24.4 | 1.010 | 25.7 |
| **21** | 1.267/1.263 | 32.2/32.1 | 1.322 | 33.6 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 "Aqua Mouse" Submersible Hermetic Receptacle Ordering Information

## 802-013

*Style 00 Front Mount*

***Series 802 Hermetic Receptacles*** feature gold plated iron alloy contacts and compression glass dielectric material. The 316 series stainless steel connector shell provides excellent corrosion protection and is suitable for e-beam welding. Viton® o-rings offer improved resistance to high temperature and harsh chemicals.

***1 x $10^{-7}$ cc/Second Maximum Helium Leak Rate.*** Open face (unmated) pressure rating is 1000 PSI. When mated, Series 802 connectors withstand 3500 PSI hydrostatic pressure.



## HOW TO ORDER SERIES 802 HERMETIC RECEPTACLES

**Sample Part Number**

| 802-013 | -00 | Z1 | 6-7 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **802-013**<br>Series 802 Hermetic Receptacle with Solder Cup or PCB Contacts | <br>**-00**<br>Jam Nut for Front Panel Mounting<br> <br>**-02**<br>Square Flange for Front Panel Mounting<br> <br>**-03**<br>Weld Mount<br> <br>**-07**<br>Square Flange for Rear Panel Mounting | **Z1**<br>Stainless Steel / Passivated<br><br>**ZL**<br>Stainless Steel / Nickel Plated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE E-2 | **P**<br>Pin, PC Tail<br><br>**E**<br>Pin, Solder Cup<br><br>**S**<br>Socket, Solder Cup<br><br>**D**<br>Socket, PC Tail | **A**<br>Normal<br><br>**B**<br>Pos. B<br><br>**C**<br>Pos. C<br><br>**D**<br>Pos. D |

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Rev. 7-FEBRUARY-2012

# Series 802 "Aqua Mouse" Submersible Front Mount Jam Nut Receptacle Connector Dimensions

## Jam Nut Front Mount Hermetic 802-013-00

SHELL STYLE 00
FRONT MOUNT JAM NUT



## DIMENSIONS

| Shell Size | A Max. | | B Flat | | C Mating Threads | D Threads | Ø E Tail Dia. | F Flat | | G Hex | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | | | | In. | mm. | In. | mm. |
| 5 | .720 | 18.29 | .625 | 15.88 | .438-28 UNEF-2A | .312-28 UN-2A | #23 .018/.022 (0.46/0.56) | .281 | 7.14 | .500 | 12.70 |
| 6 | .780 | 19.81 | .750 | 19.05 | .562-20 UN-2A | .438-28 UN-2A | | .344 | 8.74 | .625 | 15.88 |
| 7 | .910 | 23.11 | .812 | 20.62 | .625-20 UN-2A | .500-32 UN-2A | | .469 | 11.91 | .688 | 17.48 |
| 8 | .960 | 24.38 | .875 | 22.23 | .687-20 UN-2A | .562-28 UN-2A | #20 .024/.028 (0.61/0.71) | .531 | 13.49 | .750 | 19.05 |
| 9 | 1.030 | 26.16 | .937 | 23.80 | .750-20 UNEF-2A | .625-20 UN-2A | | .594 | 15.09 | .812 | 20.62 |
| 10 | 1.090 | 27.69 | 1.000 | 25.40 | .812-20 UNEF-2A | .687-28 UN-2A | #16 .060/.064 (1.52/1.63) | .656 | 16.66 | .875 | 22.23 |
| 12 | 1.160 | 29.46 | 1.062 | 26.97 | .875-20 UNEF-2A | .750-28 UN-2A | | .719 | 18.26 | .938 | 23.83 |
| 14 | 1.340 | 34.04 | 1.250 | 31.75 | 1.062-20 UN-2A | .938-28 UN-2A | | .893 | 22.68 | 1.125 | 28.58 |
| 15 | 1.410 | 35.18 | 1.312 | 33.32 | 1.125-20 UN-2A | 1.000-28 UN-2A | #12 .092/.096 (2.34/2.44) | .955 | 24.26 | 1.188 | 30.18 |
| 21 | 1.700 | 43.18 | 1.562 | 39.67 | 1.4375-20 UN-2A | 1.312-28 UN-2A | | 1.257 | 31.93 | 1.500 | 38.10 |

## RECEPTACLE KEY POSITIONS

| Key Position | Rotation A° | Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

## CUTOUT DIMENSIONS

RECOMMENDED PANEL CUTOUT
FOR STYLE 00
FRONT MOUNT JAM NUT

| Shell Size | H Flat | | Ø J | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | 291/.286 | 7.4/7.3 | .322 | 8.2 |
| 6 | .417/.412 | 10.6/10.5 | .448 | 11.4 |
| 7 | .479/.474 | 12.2/12.0 | .510 | 13.0 |
| 8 | .541/.536 | 13.7/13.6 | .572 | 14.5 |
| 9 | .604/.599 | 15.3/15.2 | .635 | 16.1 |
| 10 | .666/.661 | 16.9/16.8 | .697 | 17.7 |
| 12 | .729/.724 | 18.5/18.4 | .760 | 19.3 |
| 14 | .903/.898 | 22.9/22.8 | .948 | 24.1 |
| 15 | .965/.960 | 24.5/24.4 | 1.010 | 25.7 |
| 21 | 1.267/1.263 | 32.2/32.1 | 1.322 | 33.6 |

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# Series 802 "Aqua Mouse" Submersible Rear Mount Jam Nut Receptacle Connector Dimensions

## Jam Nut rear Mount Hermetic 802-013-07

## DIMENSIONS

| Shell Size | A Max. In. | A Max. mm. | B Flat In. ± .003 | B Flat mm. ± 0.08 | C Mating Threads | D Threads | Ø E Tail Dia. | F Flat In. ± .003 | F Flat mm. ±0.08 | Ø G In. | Ø G mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **5** | .885 | 22.48 | .466 | 11.84 | .438-28 UNEF | .500-32 UN-2A | **#23** .018/.022 (0.46/0.56) | .477 | 12.12 | .510 | 12.95 |
| **6** | 1.010 | 25.65 | .591 | 15.01 | .562-20 UN | .625-20 UN-2A | | .602 | 15.29 | .635 | 16.13 |
| **7** | 1.072 | 27.23 | .653 | 16.59 | .625-20 UN | .687-28 UN-2A | | .664 | 16.87 | .697 | 17.70 |
| **8** | 1.135 | 28.83 | .727 | 18.47 | .687-20 UN | .750-28 UN-2A | **#20** .024/.028 (0.61/0.71) | .735 | 18.67 | .760 | 19.30 |
| **9** | 1.195 | 30.35 | .778 | 19.76 | .750-20 UNEF | .812-28 UN-2A | | .789 | 20.04 | .822 | 20.88 |
| **10** | 1.260 | 32.00 | .827 | 21.01 | .812-20 UNEF | .875-28 UN-2A | **#16** .060/.064 (1.52/1.63) | .838 | 21.29 | .885 | 22.48 |
| **12** | 1.322 | 33.58 | .890 | 22.61 | .875-20 UNEF | .938-28 UN-2A | | .901 | 22.89 | .948 | 24.08 |
| **14** | 1.510 | 38.25 | 1.077 | 27.36 | 1.062-20 UN | 1.125-28 UN-2A | **#12** .092/.096 (2.34/2.44) | 1.088 | 27.64 | 1.135 | 28.83 |
| **15** | 1.572 | 39.93 | 1.140 | 28.96 | 1.125-20 UN | 1.188-28 UN-2A | | 1.151 | 29.24 | 1.198 | 30.43 |
| **21** | 1.940 | 49.28 | 1.464 | 37.19 | 1.4375-20 UN | 1.500-28 UN-2A | | 1.473 | 37.41 | 1.510 | 39.12 |

## RECEPTACLE KEY POSITIONS

| Key Position | Rotation A° | Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| **E** | **75°** | **275°** |
| **F** | **95°** | **210°** |

Dimensions in inches (millimeters) and are subject to change without notice.

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Rev. 09-January-2013

# Series 802 “Aqua Mouse” Submersible Weld Mount Receptacle Connector Dimensions

## Weld Mount Hermetic 802-013-03

SHELL STYLE 03
WELD MOUNT



**DIMENSIONS**

| Shell Size | Ø A In. ± .006 | Ø A mm. ± 0.15 | Ø B In. ± .006 | Ø B mm. ± 0.15 | C Mating Threads | Ø E Tail Dia. |
|---|---|---|---|---|---|---|
| 5 | .788 | 20.02 | .745 | 18.92 | .438-28 UNEF | #23 .018/.022 (0.46/0.56) |
| 6 | .912 | 23.16 | .869 | 22.07 | .562-20 UN | |
| 7 | .975 | 24.77 | .933 | 23.70 | .625-20 UN | |
| 8 | 1.038 | 26.37 | .995 | 25.27 | .687-20 UN | #20 .024/.028 (0.61/0.71) |
| 9 | 1.100 | 27.94 | 1.057 | 26.85 | .750-20 UNEF | |
| 10 | 1.162 | 29.53 | 1.119 | 28.42 | .812-20 UNEF | #16 .060/.064 (1.52/1.63) |
| 12 | 1.225 | 31.12 | 1.182 | 30.02 | .875-20 UNEF | |
| 14 | 1.412 | 35.86 | 1.369 | 34.77 | 1.062-20 UN | #12 .092/.096 (2.34/2.44) |
| 15 | 1.475 | 37.47 | 1.432 | 36.37 | 1.125-20 UN | |
| 21 | 1.795 | 45.59 | 1.747 | 44.38 | 1.4375-20 UN | |

**RECEPTACLE KEY POSITIONS**

| Key Position | Rotation A° | Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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Rev. 7-FEBRUARY-2012

# Series 802 Aqua Mouse Submersible Flange Mount Receptacle Connector Dimensions

## Flange Mount Hermetic 802-013-02

### DIMENSIONS

| Shell Size | A Square In. | A Square mm. | B Bsc. In. | B Bsc. mm. | C Mating Threads | Ø D Tail Dia. | Ø E In. | Ø E mm. |
|---|---|---|---|---|---|---|---|---|
| 5 | .885 | 22.48 | .500 | 12.70 | .438-28 UNEF | #23 .018/.022 (0.46/0.56) | .327 | 8.31 |
| 6 | 1.010 | 25.65 | .625 | 15.88 | .562-20 UN | | .390 | 9.91 |
| 7 | 1.072 | 27.23 | .688 | 17.48 | .625-20 UN | | .515 | 13.08 |
| 8 | 1.135 | 28.83 | .750 | 19.05 | .687-20 UN | #20 .024/.028 (0.61/0.71) | .577 | 14.66 |
| 9 | 1.195 | 30.35 | .812 | 20.62 | .750-20 UNEF | | .640 | 16.26 |
| 10 | 1.260 | 32.00 | .875 | 22.23 | .812-20 UNEF | #16 .060/.064 (1.52/1.63) | .702 | 17.83 |
| 12 | 1.323 | 33.60 | .938 | 23.83 | .875-20 UNEF | | .765 | 19.43 |
| 14 | 1.510 | 38.25 | 1.125 | 28.58 | 1.062-20 UN | #12 .092/.096 (2.34/2.44) | .953 | 24.21 |
| 15 | 1.573 | 39.95 | 1.188 | 30.18 | 1.125-20 UN | | 1.015 | 25.78 |
| 21 | 1.750 | 44.45 | 1.375 | 34.93 | 1.4375-20 UN | | 1.312 | 33.32 |

### RECEPTACLE KEY POSITIONS

| Key Position | Rotation A° | Rotation B° |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

### SERIES 802 SQ FLANGE PANEL CUTOUT

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 Aqua Mouse Submersible Overmolded Cordset Ordering Information

## 802-019, 802-022

*Series 802 Overmolded Cordset*

***Abrasion-Resistant Polyurethane Jacket*** provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

***90% Tinned Copper Braid*** is terminated directly to connector with stainless steel ***BAND-IT®*** strap.

***Two Cable Types*** – Cordsets with polyamide overmolds offer good chemical resistance and are rated for one meter immersion. For maximum chemical resistance and 2500 PSI rating, choose thermoset polyurethane overmolding.



# Series 802 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT®*** straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing, or choose thermoset polyurethane overmold for superior strength, chemical resistance, and 2500 PSI pressure rating.

Series 802 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following

| HARSH ENVIRONMENT CORDSET SPECIFICATIONS | |
|---|---|
| Cable Jacket Material | Thermoplastic Polyurethane, Black, UL 94 V-0 Rated |
| Cable Shield | Tin-Coated Copper Braid, 90% Minimum Coverage |
| Conductors | Silver Coated Stranded Wire, TFE Insulated, Per M22759/11 |
| ***BAND-IT®*** Shield Termination Band | Stainless Steel |
| Insulation Resistance | 200 megohms minimum |
| Operating Temperature | -30° C. to +105° C. |
| Immersion, Polyamide Overmold | 1 meter water immersion for 1 Hour per MIL-STD-810 Method 512 |
| Solvent Resistance, Polyamide Overmold | Excellent resistance to most solvents, fuels, and oils; poor resistance to Strong acids and bipolar solvents (alcohol) |
| Immersion, Polyurethane Overmold | 2500 psi |
| Solvent Resistance, Polyurethane Overmold | Excellent |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |
| Cable jacket Flammability and Toxicity | Toxicity Index 3.9 per NES 713<br>Oxygen Index 28% per ASTM D-2863<br>Smoke Index 24 per NES 711 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 "Aqua Mouse" Submersible Overmolded Cordset Ordering Information

## 802-019, 802-022, 802-032, 802-033

### SERIES 802 CORDSETS WITH SIZE #23 CONTACTS

Sample Part Number

| 802-019 | -A | N | 2 | Z1 | 9-19 | N | A | -48 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **802-019**<br>Overmolded Cordset, Size #23 Contacts, Shielded, with ***Polyamide Overmold***, 1 Meter Immersion<br>**802-022**<br>Overmolded Cordset, Size #23 Contacts, Shielded, with ***Thermoset Polyurethane Overmold***, 2500 PSI Rated | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#22 AWG<br>**4**<br>#24 AWG | **Z1**<br>Stainless Steel Shell / Passivated, with marine bronze coupling nut<br>**ZM**<br>Stainless Steel Shell / Electroless Nickel Plated, with marine bronze coupling nut<br>**AB**<br>Marine Bronze Shell and Coupling Nut / Unplated | **5-3**<br>**6-4**<br>**6-7**<br>**6-6**<br>**7-10**<br>**8-13**<br>**9-19**<br>**10-26**<br>**12-37**<br>**14-55**<br>**15-85** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

### SERIES 802 CORDSETS WITH SIZE #20HDCONTACTS

Sample Part Number

| 802-032 | -A | N | 0 | Z1 | 9-210 | N | A | -48 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **802-032**<br>Overmolded Cordset, Size #23 Contacts, Shielded, with ***Polyamide Overmold***, 1 Meter Immersion<br>**802-033**<br>Overmolded Cordset, Size #23 Contacts, Shielded, with ***Thermoset Polyurethane Overmold***, 2500 PSI Rated | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **0**<br>#20 AWG<br>**2**<br>#22 AWG | **Z1**<br>Stainless Steel Shell / Passivated, with marine bronze coupling nut<br>**ZM**<br>Stainless Steel Shell / Electroless Nickel Plated, with marine bronze coupling nut<br>**AB**<br>Marine Bronze Shell and Coupling Nut / Unplated | **6-23**<br>**7-25**<br>**8-28**<br>**9-210**<br>**12-220**<br>**14-235**<br>**15-241** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 802 Aqua Mouse Submersible Overmolded Cordset Ordering Information

## 802-026, 802-027, 802-028, 802-029

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## SERIES 802 CORDSETS WITH SIZE #16 CONTACTS

**Sample Part Number**

| 802-028 | -A | N | 6 | Z1 | 9-4 | N | A | -48 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **802-026**<br>Overmolded Cordset, Size #16 Contacts, Shielded, with ***Polyamide Overmold***, 1 Meter Immersion<br>**802-028**<br>Overmolded Cordset, Size #16 Contacts, Shielded, with ***Thermoset Polyurethane Overmold***, 2500 PSI Rated | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **6**<br>#16 AWG<br>**8**<br>#18 AWG | **Z1**<br>Stainless Steel Shell / Passivated, with marine bronze coupling nut<br>**ZM**<br>Stainless Steel Shell / Electroless Nickel Plated, with marine bronze coupling nut<br>**AB**<br>Marine Bronze Shell and Coupling Nut / Unplated | **6-1**<br>**8-2**<br>**9-4**<br>**10-5**<br>**12-7**<br>**14-12**<br>**15-14** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

## SERIES 802 CORDSETS WITH SIZE #12 CONTACTS

**Sample Part Number**

| 802-027 | -A | C | 2 | Z1 | 10-2 | N | A | -48 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **802-027**<br>Overmolded Cordset, Size #12 Contacts, Shielded, with ***Polyamide Overmold***, 1 Meter Immersion<br>**802-029**<br>Overmolded Cordset, Size #12 Contacts, Shielded, with ***Thermoset Polyurethane Overmold***, 2500 PSI Rated | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#12 AWG<br>**4**<br>#14 AWG | **Z1**<br>Stainless Steel Shell / Passivated, with marine bronze coupling nut<br>**ZM**<br>Stainless Steel Shell / Electroless Nickel Plated, with marine bronze coupling nut<br>**AB**<br>Marine Bronze Shell and Coupling Nut / Unplated | **7-1**<br>**10-2**<br>**12-2**<br>**12-3**<br>**14-5**<br>**15-7** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

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Rev. 01-JANUARY-2010

# Series 802 Aqua Mouse Submersible Overmolded Cordset Dimensions

## RIGHT ANGLE CORDSETS

***How To Order Right Angle Cordsets***

Insert the letter "**R**" after the End A or End B Connector letter designator.

***Example***

| | |
|---|---|
| Straight cable | 802-019-AC4Z16-4PA-72 |
| Right Angle | 802-019-A***R***C***R***4Z16-4PA-72 |

## DIMENSIONS

| Shell Size | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **5** | 2.38 | 60.33 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 2.1 | 52.71 |
| **6** | 2.38 | 60.33 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 2.1 | 52.71 |
| **7** | 2.38 | 60.33 | 0.7 | 17.78 | 1.5 | 38.1 | 0.7 | 17.78 | 2.28 | 57.79 |
| **8** | 2.48 | 62.87 | 0.75 | 19.05 | 1.6 | 40.64 | 0.75 | 19.05 | 2.38 | 60.33 |
| **9** | 2.78 | 70.49 | 0.85 | 21.59 | 1.9 | 48.26 | 0.85 | 21.59 | 2.58 | 65.41 |
| **10** | 2.78 | 70.49 | 0.85 | 21.59 | 1.9 | 48.26 | 0.85 | 21.59 | 2.58 | 65.41 |
| **12** | 3.1 | 78.11 | 1.1 | 27.94 | 2.2 | 55.88 | 1.1 | 27.94 | 3.1 | 78.11 |
| **14** | 3.4 | 85.73 | 1.3 | 33.02 | 2.5 | 63.5 | 1.3 | 33.02 | 3.48 | 88.27 |
| **15** | 3.9 | 98.43 | 1.4 | 35.56 | 3 | 76.2 | 1.4 | 35.56 | 3.7 | 93.35 |

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# Series 802 Aqua Mouse Submersible Protective Cover Ordering Information

## 660-087 and 660-088

*Receptacle Cover*

***Protect Connectors From Damage*** – These covers prevent ingress of water and contamination. Stainless steel plug covers feature Viton® O-rings for 3500 PSI sealing. Receptacle covers have a Viton® gasket and are made from marine bronze to minimize galling.

***Three Types of Attachment Rings*** – Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

***Polyurethane-Coated SST Wire Rope*** offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

***Braided Nylon Rope*** provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

## HOW TO ORDER SERIES 802 PROTECTIVE COVERS

**Sample Part Number**

| 660-087 | – 9 | U | 04 | – 6 | |
|---|---|---|---|---|---|
| **Series** | **Shell Size** | **Attachment Type** | **Attachment Code** | **Attachment Length in Inches** | **Alternate Key Position** |
| <br>**660-087**<br>Protective Cover for use with Series 802 Plugs<br> <br>**660-088**<br>Protective Cover for use with Series 802 Receptacles | **-5**<br>**-6**<br>**-7**<br>**-8**<br>**-9**<br>**-10**<br>**-12**<br>**-14**<br>**-15**<br>**-21** | **G**<br>Nylon Rope<br>**H**<br>SST Wire Rope, Teflon® Jacket<br>**N**<br>No Attachment<br>**S**<br>SST Sash Chain<br>**SK**<br>Nylon Rope With Slip Knot<br>**T**<br>SST Wire Rope, No Jacket<br>**U**<br>SST Wire Rope, Polyurethane Jacket<br>"SST" = Stainless Steel | Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot)<br> <br>Small Ring<br>**01** – .126 (3.20) I.D.<br>**02** – .145 (3.68) I.D.<br>**04** – .188 (4.78) I.D.<br>**06** – .197 (5.00) I.D.<br> <br>Large Ring<br>**14** – .385 (9.78) I.D.<br>**15** – .445 (11.30) I.D.<br>**16** – .570 (14.48) I.D.<br>**17** – .635 (16.13) I.D.<br>**18** – .695 (17.65) I.D.<br>**19** – .885 (22.48) I.D.<br>**20** – 1.070 (27.17) I.D.<br>**21** – 1.135 (28.83) I.D.<br>**22** – 1.210 (30.73) I.D.<br>**23** – 1.275 (32.39) I.D.<br>**24** – 1.520 (38.61) I.D.<br> <br>Split Ring<br>**50** – .420 (10.67) I.D.<br>**52** – .480 (12.19) I.D.<br>**54** – .635 (16.13) I.D.<br>**56** – .745 (18.92) I.D.<br>**58** – .885 (22.48) I.D.<br>**60** – 1.010 (25.65) I.D.<br>**64** – 1.125 (28.58) I.D.<br>**68** – 1.345 (34.16) I.D.<br>**72** – 1.438 (36.53) I.D. | Omit for attachment Type **N** (No Attachment)<br>**Example**<br>"-6" equals six inch length | **Omit for 660-088 receptacle covers**<br>**Omit for plug connectors with standard "A" key position**<br>**B**<br>**C**<br>**D** |

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Rev. 01-JANUARY-2010

# Series 802 Aqua Mouse Submersible Protective Cover Dimensions

## 660-087 and 660-088

***660-087 Plug Cover***

***660-088 Receptacle Cover***

## 660-087 & -088 DIMENSIONS

| Shell Size | A Hex In. | A Hex mm. | B | C Max. In. | C Max. mm. | D |
|---|---|---|---|---|---|---|
| 5 | .500 | 12.70 | .438-28 UNEF-2A | .590 | 14.99 | .438-28 UNEF-2B |
| 6 | .625 | 15.88 | .562-20 UN-2A | .720 | 18.29 | .562-20 UN-2B |
| 7 | .688 | 17.48 | .625-20 UN-2A | .780 | 19.81 | .625-20 UN-2B |
| 8 | .750 | 19.05 | .687-20 UN-2A | .840 | 21.34 | .687-20 UN-2B |
| 9 | .812 | 20.62 | .750-20 UNEF-2A | .900 | 22.86 | .750-20 UNEF-2B |
| 10 | .875 | 22.23 | .812-20 UNEF-2A | .970 | 24.89 | .812-20 UNEF-2B |
| 12 | .938 | 23.83 | .875-20 UNEF-2A | 1.030 | 26.16 | .875-20 UNEF-2B |
| 14 | 1.125 | 28.58 | 1.062-20 UN-2A | 1.220 | 30.99 | 1.062-20 UN-2B |
| 15 | 1.188 | 30.18 | 1.125-20 UN-2A | 1.280 | 32.51 | 1.125-20 UN-2B |
| 21 | 1.562 | 39.67 | 1.438-20 UN-2A | 1.610 | 40.89 | 1.438-20 UN-2B |

## MATERIALS AND FINISHES

| | |
|---|---|
| Plug Cover | 316 stainless steel, passivated |
| Receptacle Cover | marine bronze, unplated |
| O-Ring | Viton rubber |
| Gasket | Viton rubber |
| Wire,Hardware | Stainless steel, passivated |

## ATTACHMENT OPTIONS

Small Ring for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 04 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

Large Solid Ring for Attaching Receptacle Covers to a Jam Nut Receptacle

| Dia. Code | Style 07 Jam Nut Shell Size | Style 00 Jam Nut Shell Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|---|
| 14 | | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 16 | 5 | 7,8 | .570 | 14.48 | .685 | 17.40 |
| 17 | 6 | 9 | .635 | 16.13 | .760 | 19.30 |
| 18 | 7 | 10 | .695 | 17.65 | .820 | 20.82 |
| 19 | 8,9,10 | 12 | .885 | 22.48 | 1.010 | 25.65 |
| 20 | 12 | 14,15 | 1.070 | 27.17 | 1.195 | 30.35 |
| 21 | 14 | | 1.135 | 28.83 | 1.270 | 32.26 |
| 22 | 15 | | 1.210 | 30.73 | 1.312 | 33.32 |
| 24 | 21 | 21 | 1.520 | 38.61 | 1.522 | 41.20 |

Large Split Ring for Attaching Covers to Cables

| Dia. Code | Max. Cable Dia. | Min. ID | | Max. OD | |
|---|---|---|---|---|---|
| 50 | .410 | .420 | 10.67 | .510 | 12.95 |
| 52 | .470 | .480 | 12.19 | .570 | 14.48 |
| 54 | .625 | .635 | 16.13 | .726 | 18.44 |
| 56 | .735 | .745 | 18.92 | .835 | 21.21 |
| 58 | .875 | .885 | 22.48 | .976 | 24.79 |
| 60 | 1.000 | 1.010 | 25.65 | 1.101 | 27.97 |
| 64 | 1.115 | 1.125 | 28.58 | 1.215 | 30.86 |
| 68 | 1.335 | 1.345 | 34.16 | 1.435 | 36.45 |
| 72 | 1.416 | 1.426 | 36.22 | 1.526 | 38.76 |

Slip Knot (SK) for Attaching Covers toCable

-55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop.

## LANYARD OPTIONS

**Nylon Rope**

-55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter

**Polyurethane Coated Wire Rope**

Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter

**Teflon Jacketed Wire Rope**

Translucent FEP jacket over stainless steel rope, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter

**Sash Chain**

Stainless steel, #8 chain, .240" (6mm)

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## SERIES 803 BAYONET PRODUCT SELECTION GUIDE

***Plugs***
**Page F-4**
**803-001, 803-002**

### Series 803 Bayonet Plugs
Available in aluminum or stainless steel. The integral shield termination platform accepts heat-shrink boots, or select accessory threads for use with a variety of strain relief and backshell accessory options.

***Crimp Receptacles***
**Page F-6**
**803-003, 803-004**

### Series 803 Receptacles for Insulated Wire
Jam nut, square flange and in-line versions make it easy to find a style for every application. The integral shield termination platform accepts heat-shrink boots (ordered separately), or select accessory threads for use with a variety of strain relief and backshell accessory options. Contacts are crimp-type and are packaged with the connector.

***Solder Cup/PCB Receptacles***
**Page F-11**
**803-005, 803-015**

### Series 803 Receptacles With Solder Cup or PCB Termination
These panel mount connectors feature gold plated, factory-installed non-removeable contacts. Choose printed circuit terminals, or choose solder cup contacts. Connectors are potted with epoxy for general purpose applications, or choose silicone-sealed, leak-tested versions for 1 meter water immersion in unmated condition.

***Hermetic Receptacles***
**Page F-13**
**803-006**

### Series 803 Hermetic Receptacles
Need a miniaturized hermetic for a sealed box or instrument? These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. Choose jam nut or flange mount versions. Contacts are gold plated iron alloy. 100% tested to meet 1 X $10^{-6}$ cc/sec helium leakage. Open face pressure rating 1000 PSI.

***Cordsets***
**Page F-15**
**803-009, 803-013, 803-014, 803-016**

### Series 803 Shielded Overmolded Cordsets
Overmolded cordsets offer optimum convenience and performance. Low-smoke, zero halogen polyurethane jackets withstand abrasion and harsh environments.

***Protective Covers***
**Page F-19**
**800-034, 800-041, 800-038, 800-039**

### Series 803 Protective C overs
Available in aluminum or stainless steel, these covers prevent damage to exposed connectors. Rubber gasket keeps out dust and moisture. Wide selection of lanyard types and attachment rings.

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# Series 803 Mighty Mouse
## ¼ Turn Bayonet Coupling Connectors
### Contact Arrangements

## CONTACT ARRANGEMENTS

| Contact Arr. | No. of Contacts #23 | #20 | #20HD | #16 | #12 |
|---|---|---|---|---|---|
| 5-3 | 3 | | | | |
| 6-1 | | | | 1 | |
| 6-23 | | | 3 | | |
| 6-4 | 4 | | | | |
| 6-6 | 6 | | | | |
| 6-7 | 7 | | | | |
| 7-1 | | | | | 1 |
| 7-25 | | | 5 | | |
| 7-10 | 10 | | | | |
| 8-2 | | | | 2 | |
| 8-28 | | | 8 | | |
| 8-13 | 13 | | | | |
| 8-200 | 4 | 2 | | | |
| 9-4 | | | | 4 | |
| 9-210 | | | 10 | | |
| 9-19 | 19 | | | | |
| 9-200 | 4 | | | 2 | |
| 9-201 | 8 | 2 | | | |
| 10-2 | | | | | 2 |
| 10-5 | | | | 5 | |
| 10-26 | 26 | | | | |
| 10-200 | 12 | | | | 1 |
| 10-201 | 4 | | | | 2 |
| 10-202 | 8 | | | 2 | |
| 12-2 | | | | | 2 |
| 12-3 | | | | | 3 |
| 12-7 | | | | 7 | |
| 12-220 | | | 20 | | |
| 12-37 | 37 | | | | |
| 12-200 | 6 | | | | 2 |
| 12-201 | 10 | | | | 2 |
| 14-5 | | | | | 5 |
| 14-12 | | | | 12 | |
| 14-235 | | | 35 | | |
| 14-55 | 55 | | | | |

Contact Legend
#23 ○ #20HD ◓ #20 ● #16 ◒ #12 ⊕

**Mating Face View of Pin Connector**
**(socket connector numbers are reversed)**

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 803 Mighty Mouse
# ¼ Turn Bayonet Coupling Connectors
## General Information

***Bayonet Coupling Mechanism***
Push-To-Mate, ¼ turn for locking.

***1 through 55 contacts***
available in crimp, solder cup or printed circuit board versions. Aluminum or stainless steel shell.

***Now with Power Contacts***.
Choose any one of 35 contact arrangements with size #23, size #20HD, size #16 or size #12 contacts.

# Glenair's Bayonet Mighty Mouse Offers ¼ Turn Locking, Rugged Design and Ultraminiature Size

Ideal for tactical handheld radios, sensors, test equipment and autosport equipment, the Series 803 connector adds quick bayonet coupling to the Glenair Series 80 product line. Key features are small size, light weight, environmental protection, and crimp-and-poke contacts. These features make the Series 803 Bayonet connector suitable for a wide range of quick-disconnect applications. Fluorosilicone seals resist most chemicals and provide splash protection. ***Not rated for water immersion.***

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 AMPS, #20 7.5 A., #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #20HD 750 VAC RMS, #12 and #16 1800 VAC RMS |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -65° C. to +150° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 40 dB minimum from 100MHz to 1000MHz. |
| Durability | 250 mating cycles (aluminum), 2000 mating cycles (stainless steel) |
| See Series 80 General Information for complete performance specs. | |
| **MATERIALS AND FINISHES** | |
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Contact Retention Clip | Beryllium copper alloy |
| Interfacial Seal, O-rings, Wire Sealing Grommet | Fluorosilicone rubber |
| See Series 80 General Information for complete material and finish specs. | |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 803 Mighty Mouse
## ¼ Turn Bayonet Coupling Connectors
### Weights

| SERIES 803 MAXIMUM CONNECTOR WEIGHT IN GRAMS | | | | | |
|---|---|---|---|---|---|
| Contact Arr. | Cable Plug | J/N Recep Crimp | J/N Recep PCB | Flange Recep Crimp | Flange Recep PCB |
| 5-3P | 3.6 | 3.6 | 3.9 | 2.9 | 3.3 |
| 5-3S | 3.7 | 3.7 | 4.0 | 3.1 | 3.4 |
| 6-1P | 4.4 | 4.4 | 4.6 | 3.1 | 3.5 |
| 6-1S | 4.5 | 4.5 | 4.7 | 3.2 | 3.6 |
| 6-4P | 4.7 | 3.7 | 4.1 | 3.1 | 3.6 |
| 6-4S | 4.7 | 4.0 | 4.2 | 3.2 | 3.7 |
| 6-7P | 5.1 | 4.8 | 5.3 | 3.3 | 4.4 |
| 6-7S | 5.1 | 5.1 | 5.5 | 3.6 | 4.4 |
| 7-1P | 5.7 | 5.9 | 5.8 | 4.4 | 4.7 |
| 7-1S | 5.9 | 6.2 | 5.9 | 4.7 | 5.1 |
| 7-10P | 6.9 | 7.4 | 8.1 | 5.0 | 6.5 |
| 7-10S | 7.4 | 7.8 | 8.4 | 5.4 | 6.6 |
| 8-2P | 8.6 | 8.9 | 9.9 | 6.6 | 8.6 |
| 8-2S | 9.4 | 9.7 | 10.7 | 7.4 | 9.4 |
| 8-13P | 7.9 | 8.3 | 9.2 | 5.9 | 7.9 |
| 8-13S | 8.7 | 8.9 | 9.7 | 6.6 | 8.1 |
| 8-200P | 8.9 | 9.2 | 10.2 | 6.9 | 8.9 |
| 8-200S | 9.6 | 9.9 | 10.9 | 6.9 | 9.6 |
| 9-4P | 9.2 | 9.6 | 10.6 | 6.6 | 9.2 |
| 9-4S | 9.6 | 9.9 | 10.9 | 6.9 | 9.6 |
| 9-19P | 9.2 | 9.1 | 10.6 | 7.0 | 9.9 |
| 9-19S | 10.2 | 10.1 | 11.2 | 8.1 | 10.2 |
| 9-200P | 9.1 | 9.5 | 10.5 | 7.2 | 9.1 |
| 9-200S | 10.2 | 10.6 | 11.6 | 8.3 | 10.2 |
| 9-201P | 9.2 | 9.6 | 10.6 | 7.3 | 10.3 |
| 9-201S | 9.8 | 10.1 | 11.7 | 8.4 | 10.3 |
| 10-5P | 13.4 | 14.1 | 15.0 | 10.6 | 13.9 |
| 10-5S | 14.9 | 15.5 | 17.5 | 12.0 | 15.3 |
| 10-26P | 11.7 | 12.3 | 14.3 | 8.8 | 12.8 |
| 10-26S | 13.4 | 13.6 | 15.1 | 10.1 | 13.1 |
| 10-200 | 12.5 | 13.2 | 15.2 | 9.7 | 13.0 |
| 10-200 | 14.0 | 14.6 | 16.6 | 11.1 | 14.4 |
| 10-201P | 12.9 | 13.5 | 15.5 | 10.0 | 13.3 |
| 10-201S | 14.4 | 15.1 | 17.1 | 11.6 | 14.9 |
| 10-202P | 12.4 | 13.1 | 15.1 | 9.6 | 11.8 |
| 10-202S | 14.0 | 14.6 | 16.6 | 11.1 | 14.4 |
| 12-2P | 15.5 | 16.4 | 19.1 | 11.4 | 16.9 |
| 12-2S | 17.2 | 18.0 | 20.8 | 13.1 | 18.6 |
| 12-3P | 16.5 | 17.4 | 20.1 | 12.4 | 17.9 |
| 12-3S | 18.3 | 19.1 | 21.9 | 14.2 | 19.7 |
| 12-7P | 16.7 | 17.6 | 20.4 | 12.7 | 18.2 |
| 12-7S | 19.4 | 20.2 | 23.0 | 15.3 | 20.8 |
| 12-37P | 15.0 | 15.8 | 18.6 | 10.9 | 16.4 |
| 12-37S | 16.6 | 17.5 | 19.6 | 12.4 | 16.7 |
| 12-200P | 15.6 | 16.5 | 19.3 | 11.6 | 17.1 |
| 12-200S | 17.9 | 18.8 | 21.6 | 13.9 | 19.4 |
| 12-201P | 15.7 | 16.6 | 19.4 | 11.7 | 17.2 |
| 12-201S | 18.2 | 19.0 | 21.8 | 14.1 | 19.6 |
| 14-5P | 22.2 | 23.5 | 27.7 | 17.3 | 25.5 |
| 14-5S | 24.8 | 26.1 | 29.3 | 19.8 | 25.1 |
| 14-55P | 19.6 | 20.9 | 25.1 | 14.6 | 22.9 |
| 14-55S | 22.6 | 23.9 | 27.1 | 17.6 | 23.9 |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Plug Connector Ordering Information

## 803-001 and 803-002

***Series 803 Plugs***

Series 803 connectors have compact size and rugged design and are suitable for light-to-medium duty applications where water immersion is not a consideration. Splashproof design withstands exposure to rain and condensation. Bayonet coupling mechanism uses a rotating coupling nut on the plug and three integral bayonet pins on the receptacle. Push to mate, then rotate the coupling nut 90º to lock. Connector shells are machined aluminum or stainless steel. Supplied with crimp contacts, packaged separately. Terminate contacts with standard M22520 tools. Metal clips inside the connector body lock contact into place. Contacts are removable. Fluorosilicone seals and rear grommet protect connector from water ingress. Terminate cable shield directly to connector body with BAND-IT® strap, or choose rear accessory thread to attach optional cable clamp or backshell. Available in shell sizes 5 through 14 in 35 contact arrangements.

## HOW TO ORDER

**Sample Part Number**

| 803-001 | -06 | NF | 9–19 | P | N |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**803-001**<br>Crimp Contact, Banding Platform for Direct Attachment of Cable Shield and Overmold<br> <br>**803-002**<br>Crimp Contact, Rear Accessory Thread | **-06**<br>Plug | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE F-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **N**<br>Normal<br>Alternate Key Positions:<br>**X**<br>**Y**<br>**Z** |



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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Plug Connector Dimensions

## 803-001-06 and 803-002-06

***Intergral Band Platform***
803-001

***Accessory Thread***
803-002

| DIMENSIONS | | | | | |
|---|---|---|---|---|---|
| Shell Size | A Thread UNEF-2A | Ø B Max | | Ø C | |
| | | In. | mm. | In. | mm. |
| 5 | .2500-32 | .500 | 12.70 | .245 | 6.22 |
| 6 | .3125-32 | .565 | 14.35 | .290 | 7.37 |
| 7 | .4375-28 | .650 | 16.51 | .390 | 9.91 |
| 8 | .5000-28 | .750 | 19.05 | .440 | 11.18 |
| 9 | .5625-24 | .790 | 20.07 | .500 | 12.70 |
| 10 | .6250-24 | .875 | 22.23 | .562 | 14.27 |
| 12 | .6875-24 | .944 | 23.98 | .650 | 16.51 |
| 14 | .9375-20 | 1.095 | 27.81 | .805 | 20.45 |

| SERIES 803 PLUG KEY POSITIONS | | |
|---|---|---|
| Pos. | A° | B° |
| N | 150° | 210° |
| X | 75° | 210° |
| Y | 95° | 230° |
| Z | 140° | 275° |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Connector Ordering Information

## 803-003 and 803-004 Crimp Receptacles

Glenair®

***In-Line***

***Jam Nut***

***Flange Mount***

***Push-To-Mate, ¼ Turn to Lock.*** These quick-mating connectors feature bayonet pins on the receptacle. Simply push the connectors together, then rotate the plug coupling nut 90° to lock the connectors together.

***Three Shell Mounting Options:*** Jam nut with O-ring for rear panel mounting, elliptical flange for front or rear panel mounting, or in-line receptacles for free-hanging cables.

***Two Shell Styles:*** Choose the integral band platform for direct attachment of a cable shield. Install a heat-shrink boot, or overmold directly onto the band platform. An accessory thread is available for attaching strain reliefs and backshells.

## HOW TO ORDER

**Sample Part Number**

| 803-003 | -07 | NF | 6–7 | S | N |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**803-003**<br>Receptacle with Banding Platform for Direct Attachment of Cable Shield and Overmold<br> <br>**803-004**<br>Receptacle with Rear Accessory Thread | <br>**-07**<br>Jam Nut<br> <br>**-02**<br>Flange Mount<br> <br>**-01**<br>In-Line | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE F-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **N**<br>Normal<br>Alternate Key Positions:<br>**X**<br>**Y**<br>**Z** |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Jam Nut Receptacle Dimensions

## 803-004-07 and 803-003-07

***Integral Band Platform***
803-003-07

***Accessory Thread***
803-004-07

F

## DIMENSIONS

| Shell Size | Ø A | | B Flats | | C Flat | | Ø D | | E Thread | F Thread | Ø G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | | | In. | mm. |
| **5** | .575 | 14.61 | .545 | 13.84 | .350 | 8.89 | .300 | 7.62 | .3750-32 UNEF-2A | .2500-32 UNEF-2A | .230 | 5.84 |
| **6** | .635 | 16.13 | .595 | 15.11 | .410 | 10.41 | .362 | 9.19 | .4375-28 UNEF-2A | .3125-32 UNEF-2A | .286 | 7.26 |
| **7** | .755 | 19.18 | .723 | 18.36 | .536 | 13.61 | .436 | 11.07 | .5625-32 UN-2A | .4375-28 UNEF-2A | .390 | 9.91 |
| **8** | .755 | 19.18 | .790 | 20.11 | .593 | 15.10 | .508 | 12.91 | .6250-28 UN-2A | .5000-28 UNEF-2A | .440 | 11.18 |
| **9** | .830 | 21.08 | .790 | 20.07 | .596 | 15.14 | .561 | 14.25 | .6250-28 UN-2A | .5625-24 UNEF-2A | .500 | 12.70 |
| **10** | .890 | 22.61 | .925 | 23.51 | .721 | 18.31 | .635 | 16.13 | .7500-28 UN-2A | .6250-24 UNEF-2A | .562 | 14.27 |
| **12** | 1.078 | 27.38 | 1.044 | 26.52 | .845 | 21.46 | .714 | 18.14 | .8750-28 UN-2A | .6875-24 UNEF-2A | .650 | 16.51 |
| **14** | 1.264 | 32.11 | 1.230 | 31.24 | 1.022 | 25.96 | .865 | 21.97 | 1.0625-20 UN-2A | .9375-20 UNEF-2A | .805 | 20.45 |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| N | 150° | 210° |
| X | 75° | 210° |
| Y | 95° | 230° |
| Z | 140° | 275° |

## JAM NUT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. | mm. |
| **5** | .355 | 9.02 | .382 | 9.70 |
| **6** | .415 | 10.54 | .445 | 11.30 |
| **7** | .541 | 13.74 | .572 | 14.53 |
| **8** | .603<br>.599 | 15.32<br>15.21 | .635 | 16.13 |
| **9** | .601 | 15.27 | .643 | 16.33 |
| **10** | .731<br>.727 | 18.57<br>18.47 | .760 | 18.29 |
| **12** | .850 | 21.59 | .885 | 22.48 |
| **14** | 1.031 | 26.19 | 1.072 | 27.23 |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Flange Mount Receptacle Dimensions

## 803-004-02 and 803-003-02 Crimp Receptacles

***Integral Band Platform***
803-003-02

***Accessory Thread***
803-004-02

## DIMENSIONS

| Shell Size | A Max. | | B Bsc. | | C Ref. | | Ø D | | E Thread | Ø F | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | | In. | mm. |
| **5** | .703 | 17.86 | .513 | 13.03 | .460 | 11.68 | .300 | 7.62 | .2500-32 UNEF-2A | .230 | 5.84 |
| **6** | .788 | 20.02 | .598 | 15.19 | .522 | 13.26 | .362 | 9.19 | .3125-32 UNEF-2A | .286 | 7.26 |
| **7** | .890 | 22.61 | .708 | 17.98 | .590 | 14.99 | .436 | 11.07 | .4375-28 UNEF-2A | .390 | 9.91 |
| **8** | 1.154 | 29.31 | .964 | 24.49 | .668 | 16.97 | .508 | 12.91 | .5000-28 UNEF-2A | .440 | 11.18 |
| **9** | 1.207 | 30.66 | 1.017 | 25.83 | .721 | 18.31 | .561 | 14.25 | .5625-24 UNEF-2A | .500 | 12.70 |
| **10** | 1.291 | 32.79 | 1.101 | 27.97 | .795 | 20.19 | .635 | 16.13 | .6250-24 UNEF-2A | .562 | 14.27 |
| **12** | 1.394 | 35.41 | 1.204 | 30.58 | .874 | 22.20 | .714 | 18.14 | .6875-24 UNEF-2A | .650 | 16.51 |
| **14** | 1.545 | 39.24 | 1.280 | 32.51 | 1.050 | 26.67 | .865 | 21.97 | .9375-20 UNEF-2A | .805 | 20.45 |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| N | 150° | 210° |
| X | 75° | 210° |
| Y | 95° | 230° |
| Z | 140° | 275° |

## FLANGE MOUNT PANEL CUTOUTS

**FLANGE MOUNT**

| Shell Size | A | | Ø B | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| **5** | .513 | 13.03 | .365 | 9.25 |
| **6** | .598 | 15.19 | .430 | 10.92 |
| **7** | .708 | 17.98 | .520 | 13.21 |
| **8** | .964 | 17.98 | .592 | 15.04 |
| **9** | 1.017 | 25.83 | .645 | 16.38 |
| **10** | 1.101 | 27.97 | .726 | 18.44 |
| **12** | 1.204 | 30.58 | .832 | 21.13 |
| **14** | 1.280 | 32.51 | .945 | 24.00 |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling In-Line Receptacle Dimensions

## 803-004-01 and 803-003-01 Crimp Receptacles

***Integral Band Platform***
803-003-01

***Accessory Thread***
803-004-01

| DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Shell Size | A Max. | | Ø B | | C Thread | Ø D | |
| | In. | mm. | In. | mm. | | In. | mm. |
| **5** | .402 | 10.21 | .300 | 7.62 | .2500-32 UNEF-2A | .230 | 5.84 |
| **6** | .465 | 11.81 | .362 | 9.19 | .3125-32 UNEF-2A | .286 | 7.26 |
| **7** | .500 | 12.70 | .436 | 11.07 | .4375-28 UNEF-2A | .390 | 9.91 |
| **8** | .570 | 14.48 | .508 | 12.90 | .5000-28 UNEF-2A | .440 | 11.18 |
| **9** | .652 | 16.56 | .561 | 14.25 | .5625-24 UNEF-2A | .500 | 12.70 |
| **10** | .715 | 18.15 | .635 | 16.13 | .6250-24 UNEF-2A | .562 | 14.27 |
| **12** | .805 | 20.45 | .714 | 18.14 | .6875-24 UNEF-2A | .650 | 16.51 |
| **14** | .915 | 23.24 | .865 | 21.97 | .9375-20 UNEF-2A | .805 | 20.45 |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| N | 150° | 210° |
| X | 75° | 210° |
| Y | 95° | 230° |
| Z | 140° | 275° |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling PCB Connector Ordering Information

## 803-005, 803-015

***Series 803 Printed Circuit Board Receptacle***

***Printed Circuit Board/ Solder Cup Receptacles*** feature low profile shells for minimum protrusion inside enclosures and integral standoffs for board washout. Contacts are non-removable.

***IWater Immersion, Unmated***

Specify ***803-005*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***803-015*** watertight connectors . These 803-015 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x $10^{-4}$ cc/second at one atmosphere pressure differential from -40C to +70C. ***NOTE: mated connectors are not submersible.***

## HOW TO ORDER SERIES 803 PRINTED CIRCUIT BOARD RECEPTACLES

**Sample Part Number**

| 803-005 | -07 | ZN | 6–7 | S | N |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **803-005**<br>Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting<br><br>**803-015**<br>Receptacle for Solder Cup or PCB Termination, With Resilient Silicone Potting For Watertight Seal from -40° to +70°C (15 PSI Pressure Differential) | <br>**- 02**<br>Flange Mount<br><br> <br>**- 07**<br>Jam Nut | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE F-2 | **P**<br>Pin, PC Tail<br><br>**S**<br>Socket, PC Tail<br><br>**E**<br>Pin, Solder Cup<br><br>**F**<br>Socket, Solder Cup | **N**<br>Normal<br>Alternative Key Positions:<br><br>**X**<br>**Y**<br>**Z** |



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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Flange Mount and Jam Nut Receptacle Dimensions

## 803-005 and 803-015

***Flange Mount Receptacle***
803-005-02

***Jam Nut Receptacle***
803-005-07

**DIMENSIONS**

| Shell Size | A Max. | | B Bsc. | | C Ref. | | Ø D | | E Flats | | F Flat | | Ø G | | H Thread | Ø J Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | | |
| 5 | .703 | 17.86 | .513 | 13.03 | .460 | 11.68 | .300 | 7.62 | .545 | 13.84 | .350 | 8.89 | .575 | 14.61 | .3750-32 UNEF-2A | **#23** .018/.022 (0.46/0.56) **#20** .024/.028 (0.61/0.71) **#16** .060/.064 (1.52/1.63) **#12** .092/.096 (2.34/2.44) |
| 6 | .788 | 20.02 | .598 | 15.19 | .522 | 13.26 | .362 | 9.19 | .595 | 15.11 | .410 | 10.42 | .635 | 16.13 | .4375-28 UNEF-2A | |
| 7 | .890 | 22.61 | .708 | 17.98 | .590 | 14.99 | .436 | 11.07 | .723 | 18.36 | .536 | 13.61 | .755 | 19.18 | .5625-32 UN-2A | |
| 8 | 1.154 | 29.31 | .964 | 24.49 | .668 | 16.97 | .508 | 12.91 | .790 | 18.36 | .593 | 14.53 | .755 | 19.18 | .6250-28 UN-2A | |
| 9 | 1.207 | 30.66 | 1.017 | 25.83 | .721 | 18.31 | .561 | 14.25 | .790 | 20.07 | .596 | 15.14 | .830 | 21.08 | .6250-28 UN-2A | |
| 10 | 1.291 | 32.79 | 1.101 | 27.97 | .795 | 20.19 | .635 | 16.13 | .925 | 21.72 | .721 | 18.31 | .890 | 22.61 | .7500-28 UN-2A | |
| 12 | 1.394 | 35.41 | 1.204 | 30.58 | .874 | 22.20 | .714 | 18.14 | 1.044 | 26.52 | .845 | 21.46 | 1.078 | 27.38 | .8750-28 UN-2A | |
| 14 | 1.545 | 39.24 | 1.280 | 32.51 | 1.050 | 26.67 | .865 | 21.97 | 1.230 | 31.24 | 1.022 | 25.96 | 1.264 | 32.11 | 1.0625-20 UN-2A | |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Hermetic Receptacle Connector Ordering Information

## 803-006

***Series 803 Hermetic Jam Nut Mount***

***Series 803 Hermetic Receptacles*** feature 304L stainless steel shells, fused vitreous glass insulators and gold-plated Alloy 52 iron alloy contacts.

***1 X $10^{-7}$ cc/second*** maximum helium leak rate when tested at 1 atmosphere vacuum.

***Two Shell Styles*** are available: Jam Nut and Flange Mount.

***1000 PSI Pressure Rating*** in open face (unmated) condition.

***Solder Cup Or PCB Contacts***

## HOW TO ORDER

**Sample Part Number**

| 803-006 | -07 | Z1 | 9-19 | P | N |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size/Insert** | **Contact Type** | **Shell Key Position** |
| **803-006** Hermetic Receptacles with Printed Circuit Board Contacts or Solder Cup Contacts | **- 07** Jam Nut **- 02** Flange Mount | **Z1** Stainless Steel / Passivated<br>**ZL** Stainless Steel/ Nickel Plated | SEE ***CONTACT ARRANGEMENTS*** PAGE F-2 | **P** Pin, Solder Cup<br>**C** Pin, PC Tail<br>**S** Socket, Solder Cup<br>**D** Socket, PC Tail | **N** Normal<br>Alternate Key Positions:<br>**X**<br>**Y**<br>**Z** |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Flange Mount and Jam Nut Receptacle Dimensions

## 803-006-02 and 803-006-07

***Flange Mount Receptacle***
803-006-02

***Jam Nut Receptacle***
803-006-07

**DIMENSIONS**

| Shell Size | A Max. | | B Bsc. | | C Ref. | | Ø D | | E Flats | | F Flat | | Ø G | | H Thread | Ø J Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | | |
| 5 | .703 | 17.86 | .513 | 13.03 | .460 | 11.68 | .300 | 7.62 | .545 | 13.84 | .350 | 8.89 | .575 | 14.61 | .3750-32 UNEF-2A | #23 .018/.022 (0.46/0.56) |
| 6 | .788 | 20.02 | .598 | 15.19 | .522 | 13.26 | .362 | 9.19 | .595 | 15.11 | .410 | 10.42 | .635 | 16.13 | .4375-28 UNEF-2A | |
| 7 | .890 | 22.61 | .708 | 17.98 | .590 | 14.99 | .436 | 11.07 | .723 | 18.36 | .536 | 13.61 | .755 | 19.18 | .5625-32 UN-2A | #20 .024/.028 (0.61/0.71) |
| 8 | 1.154 | 29.31 | .964 | 24.49 | .668 | 16.97 | .508 | 12.91 | .790 | 20.07 | .593 | 15.10 | .755 | 19.18 | .6250-32 UN-2A | |
| 9 | 1.207 | 30.66 | 1.017 | 25.83 | .721 | 18.31 | .561 | 14.25 | .790 | 20.07 | .596 | 15.14 | .830 | 21.08 | .6250-28 UN-2A | #16 .060/.064 (1.52/1.63) |
| 10 | 1.291 | 32.79 | 1.101 | 27.97 | .795 | 20.19 | .635 | 16.13 | .925 | 23.51 | .925 | .721 | .890 | 22.61 | .7500-28 UN-2A | |
| 12 | 1.394 | 35.41 | 1.204 | 30.58 | .874 | 22.20 | .714 | 18.14 | 1.044 | 26.52 | .845 | 21.46 | 1.078 | 27.38 | .8750-28 UN-2A | #12 .092/.096 (2.34/2.44) |
| 14 | 1.545 | 39.24 | 1.280 | 32.51 | 1.050 | 26.67 | .865 | 21.97 | 1.230 | 31.24 | 1.022 | 25.96 | 1.264 | 32.11 | 1.0625-20 UN-2A | |

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*Overmolded Cordset*

***Abrasion-Resistant Polyurethane Jacket*** provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

***90% Tinned Copper Braid*** is terminated directly to connector with stainless steel ***BAND-IT®*** strap.

***Watertight Overmold*** provides strain relief and protection.

# Series 803 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT®*** straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing.

Series 801 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following pages.



| HARSH ENVIRONMENT CORDSET SPECIFICATIONS | |
|---|---|
| Cable Jacket Material | Thermoplastic Polyurethane, Black, Low-Smoke, Zero-Halogen |
| Cable Shield | Tin-Coated Copper Braid, 90% Minimum Coverage |
| Conductors | Silver Coated Stranded Wire, TFE Insulated, Per M22759/11 |
| ***BAND-IT®*** Shield Termination Band | Stainless Steel |
| Current Rating | #23 5 Amps, #20HD 7.5 Amps, #16 13 Amps, #12 23 Amps |
| Test Voltage (Dielectric Withstanding Voltage) | #23 500 VAC, #20HD 700 VAC, #16 and #12 1800 VAC Sea Level |
| Insulation Resistance | 200 megohms minimum |
| Operating Temperature | -30° C. to +105° C. |
| Solvent Resistance, Polyamide Overmold | Excellent Resistance to Most Solvents, Fuels, and Oils; Poor Resistance to Strong Acids and Bipolar Solvents (Alcohol) |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |
| Cable jacket Flammability and Toxicity | Toxicity Index 3.9 per NES 713<br>Oxygen Index 28% per ASTM D-2863<br>Smoke Index 24 per NES 711 |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Overmolded ASAP Cordset Dimensions

## 803-009, 803-016

### SERIES 803 CORDSETS WITH SIZE #23 CONTACTS

Sample Part Number

| 803-009 | -A | C | 2 | M | 9-19 | P | N | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **803-009** Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #23 Contacts | **- A** Plug, with Male Pin Contacts<br>**- B** Plug, with Female Socket Contacts<br>**- C** Receptacle, with Male Pin Contacts<br>**- D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **2** #22 AWG<br>**4** #24 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU** \|Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **5-3**<br>**6-4**<br>**6-6**<br>**6-7**<br>**7-10**<br>**8-13**<br>**9-19**<br>**10-26**<br>**12-37**<br>**14-55** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

### SERIES 803 CORDSETS WITH SIZE #20HD CONTACTS

Sample Part Number

| 803-016 | -A | C | 2 | M | 7-25 | P | N | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **803-016** Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #20HD Contacts | **- A** Plug, with Male Pin Contacts<br>**- B** Plug, with Female Socket Contacts<br>**- C** Receptacle, with Male Pin Contacts<br>**- D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **0** #20 AWG<br>**2** #22 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU** \|Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **6-23**<br>**7-25**<br>**8-28**<br>**9-210**<br>**12-220**<br>**14-235** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Overmolded ASAP Cordset Dimensions

## 803-013, 803-014

Glenair®

## SERIES 803 CORDSETS WITH SIZE #16 CONTACTS

**Sample Part Number**

| 803-013 | -A | C | 6 | M | 9-4 | P | N | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **803-013** Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #16 Contacts | **- A** Plug, with Male Pin Contacts<br>**- B** Plug, with Female Socket Contacts<br>**- C** Receptacle, with Male Pin Contacts<br>**- D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **6** #16 AWG<br>**8** #18 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU** \|Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **6-1**<br>**8-2**<br>**9-4**<br>**10-5**<br>**12-7**<br>**14-12** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

## SERIES 803 CORDSETS WITH SIZE #12 CONTACTS

**Sample Part Number**

| 803-014 | -A | C | 2 | M | 10-2 | N | N | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **803-014** Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #12 Contacts | **- A** Plug, with Male Pin Contacts<br>**- B** Plug, with Female Socket Contacts<br>**- C** Receptacle, with Male Pin Contacts<br>**- D** Receptacle, with Female Socket Contacts | **A** Plug, with Male Pin Contacts<br>**B** Plug, with Female Socket Contacts<br>**C** Receptacle, with Male Pin Contacts<br>**D** Receptacle, with Female Socket Contacts<br>**N** No Connector (Single-Ended) | **2** #12 AWG<br>**4** #14 AWG | **M** Aluminum / Electroless Nickel<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU** \|Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE<br>**Z1** Stainless Steel / Passivated | **7-1**<br>**10-2**<br>**12-2**<br>**12-3**<br>**14-5** | **P** Metal Protective Covers Included<br>**N** No Covers Supplied | **N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z | Overall Length In Inches<br>12 Inch Min. |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Overmolded ASAP Cordset Dimensions

## 803-009, 803-013, 803-014, 803-016

## RIGHT ANGLE CORDSETS

***How To Order Right Angle Cordsets***

Insert the letter "**R**" after the End A or End B Connector letter designator.

***Example***

Straight cable 803-009-AC4M6-4PN-72
Right Angle 803-009-A***R***C***R***4M6-4PN-72

F

## DIMENSIONS

| Shell Size | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **5** | 2.15 | 54.61 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 1.85 | 46.99 |
| **6** | 2.15 | 54.61 | 0.6 | 15.24 | 1.5 | 38.1 | 0.6 | 15.24 | 1.85 | 46.99 |
| **7** | 2.15 | 54.61 | 0.7 | 17.78 | 1.5 | 38.1 | 0.7 | 17.78 | 2.05 | 52.07 |
| **8** | 2.25 | 57.15 | 0.8 | 19.05 | 1.6 | 40.64 | 0.8 | 19.05 | 2.15 | 54.61 |
| **9** | 2.55 | 64.77 | 0.9 | 21.59 | 1.9 | 48.26 | 0.9 | 21.59 | 2.35 | 59.69 |
| **10** | 2.55 | 64.77 | 0.9 | 21.59 | 1.9 | 48.26 | 0.9 | 21.59 | 2.35 | 59.69 |
| **12** | 2.85 | 72.39 | 1.1 | 27.94 | 2.2 | 55.88 | 1.1 | 27.94 | 2.85 | 72.39 |
| **14** | 3.15 | 80.01 | 1.3 | 33.02 | 2.5 | 63.5 | 1.3 | 33.02 | 3.25 | 82.55 |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Protective Cover Ordering Information

## 660-082 and 660-083

***Protect Connectors From Damage*** – Machined aluminum covers prevent ingress of contamination and water.

***Stainless Steel Fittings and Rings*** – Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

***Polyurethane-Coated SST Wire Rope*** offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

***Braided Nylon Rope*** provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

## HOW TO ORDER SERIES 803 BAYONET PROTECTIVE COVERS

**Sample Part Number**

| 660-082 | -M | H | 9 | 06 | -6 |
|---|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Attachment Type** | **Shell Size** | **Attachment Code** | **Attachment Length in Inches** |

**660-082**
Protective Cover for use with Bayonet Plug Connectors

**660-083**
Protective Cover for use with Bayonet Receptacle Connectors

**Shell Material / Finish**

**C**
Aluminum / Black Anodize (Non-Conductive) RoHS Compliant

**M**
Aluminum / Electroless Nickel RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE RoHS Compliant

**Z1**
Stainless Steel / Passivated RoHS Compliant

**Attachment Type**

**G**
Nylon Rope

**H**
SST Wire Rope, Teflon® Jacket

**N**
No Attachment

**S**
SST Sash Chain

**SK**
Nylon Rope With Slip Knot

**T**
SST Wire Rope, No Jacket

**U**
SST Wire Rope, Polyurethane Jacket

"SST" = Stainless Steel

**Shell Size**

**5**
**6**
**7**
**8**
**9**
**10**
**12**
**14**

**Attachment Code**

Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot)

Small Ring

**01** – .126 (3.20) I.D.
**02** – .145 (3.68) I.D.
**04** – .188 (4.78) I.D.
**06** – .197 (5.00) I.D.

Large Ring

**14** – .385 (9.78) I.D.
**15** – .445 (11.30) I.D.
**16** – .570 (14.48) I.D.
**17** – .635 (16.13) I.D.
**18** – .695 (17.65) I.D.
**19** – .885 (22.48) I.D.
**20** – 1.070 (27.17) I.D.

Split Ring

**50** – .420 (10.67) I.D.
**52** – .480 (12.19) I.D.
**54** – .635 (16.13) I.D.
**56** – .745 (18.92) I.D.
**58** – .885 (22.48) I.D.
**60** – 1.010 (25.65) I.D.
**64** – 1.125 (28.58) I.D.
**68** – 1.345 (34.16) I.D.

**Attachment Length in Inches**

Omit for attachment Type **N** (No Attachment)
**Example**
"-6" equals six inch length

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Protective Cover Dimensions

## 660-082 and 660-083

## Attaching a 660-083 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 5 | .385 | 9.78 | .510 | 12.95 |
| 15 | 6 | .445 | 11.30 | .565 | 14.35 |
| 16 | 7, 8 | .570 | 14.48 | .685 | 17.40 |
| 17 | 9 | .635 | 16.13 | .760 | 19.30 |
| 18 | 10 | .695 | 17.65 | .820 | 20.82 |
| 19 | 12 | .885 | 22.48 | 1.010 | 25.65 |
| 20 | 14 | 1.070 | 27.17 | 1.195 | 30.35 |

## Attaching a Cover to a Panel With a Screw

Small Ring for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 04 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

## Attaching a Cover to a Cable Assembly With a Solid Ring

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 15 | 7 | .445 | 11.30 | .565 | 14.35 |
| 16 | 8, 9 | .570 | 14.48 | .685 | 17.40 |
| 18 | 10, 12 | .695 | 17.65 | .820 | 20.82 |
| 20 | 14 | 1.070 | 27.17 | 1.195 | 30.35 |

## Attaching a Cover to a Cable Using a Split Ring or Slip Knot

Large Split Ring for Attaching Covers to Cables

| Dia. Code | Max. Cable Dia. (in.) | Ring Diameter Min. ID In. | Ring Diameter Min. ID mm. | Ring Diameter Max. OD In. | Ring Diameter Max. OD mm. |
|---|---|---|---|---|---|
| 50 | .410 | .420 | 10.67 | .580 | 14.73 |
| 52 | .470 | .480 | 12.19 | .640 | 16.26 |
| 54 | .625 | .635 | 16.13 | .796 | 20.22 |
| 56 | .735 | .745 | 18.92 | .905 | 22.99 |
| 58 | .875 | .885 | 22.48 | 1.046 | 26.57 |
| 60 | 1.000 | 1.010 | 25.65 | 1.171 | 29.74 |
| 64 | 1.115 | 1.125 | 28.58 | 1.285 | 32.64 |
| 68 | 1.335 | 1.345 | 34.16 | 1.505 | 38.23 |

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# Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Protective Cover Dimensions

## 660-082 and 660-083

***Plug Cover***
660-082

***Receptacle Cover***
660-083

| Shell Size | Ø A Max. | |
|---|---|---|
| | In. | mm. |
| **5** | .620 | 15.7 |
| **6** | .620 | 15.7 |
| **7** | .620 | 15.7 |
| **8** | .690 | 17.5 |
| **9** | .760 | 19.3 |
| **10** | .850 | 21.6 |
| **12** | .940 | 23.8 |
| **14** | 1.170 | 29.7 |

| MATERIALS AND FINISHES | |
|---|---|
| Cover | Aluminum alloy or stainless steel |
| Gasket | Fluorosilicone rubber |
| Wire,Hardware | Stainless steel, passivated |

| LANYARD OPTIONS | |
|---|---|
| **Nylon Rope (G)** | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter |
| **Polyurethane Coated Wire Rope (U)** | Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter |
| **Teflon® Jacketed Wire Rope (H)** | Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter |
| **Sash Chain (S)** | Stainless steel, #8 chain, .240" (6mm) |
| **Slip Knot (SK)** for Attaching Covers to Cable | 55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop. |

Dimensions in inches (millimeters) and are subject to change without notice.

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SERIES 80

# MADE TO ORDER CABLE ASSEMBLIES

Nothing quite says "turnkey" like a factory-terminated and -tested Mighty Mouse Cordset. From simple point-to-point assemblies like the Mighty Mouse/USB cable shown above, to complex multi-branch cable harnesses, junction-box assemblies, shielded, overmolded designs and more—Glenair delivers true "turnkey" service on our entire Series 80 product line. And at Glenair, the bid-process for custom Mighty Mouse cables is streamlined. We TRULY pride ourselves on FAST delivery. In fact, because we manufacture all our component parts in-house—including connectors, cables, backshells and other accessories—we can usually quote, build, test and ship our cables faster than many cable shops can complete their bid-file paperwork. So, after you've made the decision to choose Mighty Mouse for your mission-critical application, we invite you to leverage our cable assembly service for added speed and convenience.

Glenair®

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# Series 804 Push-Pull Mighty Mouse Quick-Disconnect Connectors

## Product Selection Guide

Glenair®

## SECTION G SERIES 804 PUSH-PULL PRODUCT SELECTION GUIDE

***Cable Plugs***
**Page G-5**
**804-001, 804-002**

### Series 804 Cable Plugs
Cable plugs are available with an integral shield termination platform for use with ***BAND-IT®*** microbands sold separately, or with accessory threads for backshell attachment. Contacts are crimp-type, and are packaged with the connector.

***Crimp Receptacles***
**Page G-7**
**804-003, 804-004**

### Series 804 Receptacles, Crimp Termination
Choose in-line version for free-hanging cables, or choose jam nut versions for panel mounting. Crimp receptacles are available with an integral shield termination platform or with accessory threads for backshell attachment. Contacts are crimp-type, and are packaged with the connector.

***Solder Cup/PCB Receptacles***
**Page G-11**
**804-005, 804-020**

### Series 804 Receptacles with PCB or Solder Cup Terminals
These panel mount connectors feature gold plated, factory-installed contacts. Connector bodies are sealed with epoxy to assure a water-tight open face seal.

***Panel Mount Plugs***
**Page G-14**
**804-009, 804-021**

### Series 804 Panel Mount Plugs with PCB or Solder Cup Terminals
These panel mount plugs offer reduced profiles inside the box compared to panel mount receptacles. Connector bodies are sealed with epoxy to assure a water-tight open face seal.

***Hermetic Receptacles***
**page G-18**

### Series 804 Hermetic Receptacles
Need a miniaturized hermetic for a sealed box or instrument? These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. 100% tested to meet 1 X $10^{-6}$ cc/sec helium leakage. Open face pressure rating 1000 PSI.

***Feedthrough***
**Page G-21**
**804-067**

### Series 804 Bulkhead Feedthrough Receptacle Connector
Jam Nut mount, shell sizes 5 to 15. This connector mates with all push/pull high densisty plug connectors with the same polarization and opposite contact genders (804-001 and 804-002). Copper alloy gold-plated contacts, pins to pin, pin to plug or plug to plug.

***Cordsets***
**page G-23**
**804-015, 804-018, 804-019, 804-022**

### Series 804 Cordsets
Specify overmolded cordsets for optimum convenience and performance. Select standard polyurethane cable for general purpose applications, or specify low smoke/zero halogen polyurethane for applications where low toxicity is mandated.

***Metal Covers***
**Page G-27**
**667-202, 809-198**

### Series 804 Metal Protective Covers
These metal covers provide a watertight seal and prevent damage. Select nylon cord or wire rope lanyards with a range of ring terminal diameters to fit just about any need.

***Rubber Covers***
**page G-32**
**809-083, 809-087**

### Series 804 Rubber Covers
These splashproof neoprene covers are ideal for tactical equipment where metal covers are not preferred.

***Flop Lids***
**Page G-35**
**667-282**

### Series 804 Metal Flop Lid Covers
These metal covers fit rear panel jam nut receptacles. Spring-loaded cover snaps shut when mating plug is pulled free.

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# Series 804 Push-Pull Mighty Mouse Quick-Disconnect Connectors

## Contact Arrangements

### CONTACT ARRANGEMENTS

| Contact Arr. | No. of Contacts #23 | #20 | #20HD | #16 | #12 |
|---|---|---|---|---|---|
| 5-3 | 3 | | | | |
| 6-1 | | | | 1 | |
| 6-23 | | | 3 | | |
| 6-4 | 4 | | | | |
| 6-6 | 6 | | | | |
| 6-7 | 7 | | | | |
| 7-1 | | | | | 1 |
| 7-25 | | | 5 | | |
| 7-10 | 10 | | | | |
| 8-2 | | | | 2 | |
| 8-28 | | | 8 | | |
| 8-13 | 13 | | | | |
| 8-200 | 4 | 2 | | | |
| 9-4 | | | | 4 | |
| 9-210 | | | 10 | | |
| 9-19 | 19 | | | | |
| 9-200 | 4 | | | 2 | |
| 9-201 | 8 | 2 | | | |
| 10-2 | | | | | 2 |
| 10-5 | | | | 5 | |
| 10-26 | 26 | | | | |
| 10-200 | 12 | | | | 1 |
| 10-201 | 4 | | | | 2 |
| 10-202 | 8 | | | 2 | |
| 12-2 | | | | | 2 |
| 12-3 | | | | | 3 |
| 12-7 | | | | 7 | |
| 12-220 | | | 20 | | |
| 12-37 | 37 | | | | |
| 12-200 | 6 | | | | 2 |
| 12-201 | 10 | | | | 2 |
| 14-5 | | | | | 5 |
| 15-12 | | | | 12 | |
| 14-235 | | | 35 | | |
| 14-55 | 55 | | | | |

Contact Legend
#23 ∘ #20HD ◓ #20 ● #16 ◒ #12 ⊕

**Mating Face View of Pin Connector**
**(socket connector numbers are reversed)**

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SERIES 804 PLUG

SERIES 804 RECEPTACLE

- **Push-to-Mate, Pull-to-Unmate**
- **Gold-Plated tainless Steel Spring**
- **Crimp Rear Release Contacts**
- **Integral Band Platform**
- **Available with Size #12, #16, #20, #20HD and #23 Contacts**
- **Environmentally Sealed**

# Series 804 Quick-Disconnect Offers Environmental Sealing and Rugged Design in a Lightweight, Push-Pull Package

Ideal for breakaway connections, the Series 804 QDC connector features a stainless steel spring in the receptacle and a detent on the plug body. Used for headsets, radios, weapons and other applications, the QDC Mighty Mouse meets immersion requirements and provides excellent durability. The gold-plated spring provides low shell-to-shell resistance for excellent EMI shielding. A fluorosilicone o-ring provides a watertight seal when mated.

| 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 | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness (1) | 60 dB minimum from 100MHz to 1000MHz. |
| Durability | 2000 mating cycles |
| (1) Tested with electroless nickel plating<br>See Series 80 General Information for complete performance specs. | |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Contact Retention Clip | Beryllium copper alloy |
| Seal, O-rings, Grommet | Fluorosilicone rubber |
| Spring | Gold plated stainless steel |
| See Series 80 General Information for complete material and finish specs. | |

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# Series 804 Push-Pull Mighty Mouse Quick-Disconnect Connectors

## General Information

### SERIES 804 WEIGHTS

Maximum Weight In Grams

| Layout | Plug | Jam Nut Receptacle Rear Mount | Jam Nut Receptacle Front Mount | In-Line Recep. |
|---|---|---|---|---|
| 5-3P | 2.2 | 8.0 | 9.7 | 4.0 |
| 5-3S | 2.4 | 8.3 | 9.8 | 4.1 |
| 6-1P | 3.1 | 7.2 | 11.8 | 5.2 |
| 6-1S | 3.4 | 7.5 | 12.1 | 5.5 |
| 6-4P | 2.8 | 8.8 | 11.4 | 4.8 |
| 6-4S | 3.0 | 9.0 | 11.6 | 5.1 |
| 6-7P | 3.0 | 9.1 | 11.7 | 5.3 |
| 6-7S | 3.2 | 9.5 | 12.0 | 5.5 |
| 7-1P | 3.7 | 11.1 | 16.4 | 10.1 |
| 7-1S | 4.3 | 11.7 | 16.9 | 10.7 |
| 7-10P | 3.7 | 10.9 | 16.2 | 10.0 |
| 7-10S | 4.2 | 11.3 | 16.5 | 10.3 |
| 8-2P | 5.0 | 10.9 | 13.5 | 8.0 |
| 8-2S | 5.7 | 5.7 | 11.7 | 9.0 |
| 8-13P | 4.3 | 10.6 | 12.4 | 7.4 |
| 8-13S | 4.8 | 11.0 | 13.0 | 8.1 |
| 8-200P | 5.3 | 11.2 | 13.9 | 8.4 |
| 8-200S | 6.1 | 12.0 | 14.6 | 9.1 |
| 9-4P | 5.7 | 15.2 | 21.1 | 11.0 |
| 9-4S | 6.7 | 16.2 | 22.1 | 12.0 |
| 9-19P | 4.6 | 14.1 | 20.0 | 9.9 |
| 9-19S | 4.8 | 14.9 | 21.1 | 9.8 |
| 9-200P | 5.2 | 14.6 | 20.6 | 10.5 |
| 9-200S | 6.3 | 15.7 | 21.7 | 11.6 |
| 9-201P | 5.8 | 15.3 | 21.2 | 11.1 |
| 9-201S | 6.9 | 16.4 | 22.3 | 12.2 |
| 10-5P | 7.3 | 15.5 | 23.3 | 11.9 |
| 10-5S | 8.7 | 16.9 | 24.8 | 13.3 |
| 10-26P | 5.4 | 13.6 | 20.5 | 10.1 |
| 10-26S | 6.2 | 13.9 | 21.1 | 10.5 |
| 10-200P | 6.2 | 14.4 | 22.2 | 10.8 |
| 10-200S | 7.6 | 15.8 | 23.7 | 12.2 |
| 10-201P | 6.3 | 14.5 | 22.3 | 10.9 |
| 10-201S | 7.7 | 16.0 | 23.8 | 12.3 |
| 10-202P | 6.3 | 14.5 | 22.3 | 10.9 |
| 10-202S | 7.8 | 16.1 | 23.9 | 12.4 |
| 12-2P | 10.7 | 21.5 | 26.1 | 20.8 |
| 12-2S | 12.3 | 23.1 | 27.7 | 22.4 |
| 12-3P | 11.7 | 22.4 | 27.1 | 21.8 |
| 12-3S | 13.4 | 24.2 | 28.8 | 23.4 |
| 12-7P | 11.9 | 22.7 | 27.3 | 22.0 |

### SERIES 804 WEIGHTS

Maximum Weight In Grams

| Layout | Plug | Jam Nut Receptacle Rear Mount | Jam Nut Receptacle Front Mount | In-Line Recep. |
|---|---|---|---|---|
| 12-7S | 14.5 | 25.3 | 29.9 | 24.6 |
| 12-37P | 10.1 | 21.5 | 25.5 | 22.4 |
| 12-37S | 11.8 | 23.1 | 27.2 | 22.1 |
| 12-200P | 10.3 | 21.1 | 25.7 | 20.5 |
| 12-200S | 12.5 | 23.3 | 27.9 | 22.7 |
| 12-201P | 10.7 | 21.5 | 26.1 | 22.8 |
| 12-201S | 13.0 | 23.8 | 28.4 | 23.1 |
| 14-5P | 15.4 | 28.3 | 33.6 | 26.3 |
| 14-5S | 18.4 | 31.2 | 36.5 | 29.3 |
| 14-12P | 16.2 | 29.0 | 34.3 | 27.1 |
| 14-12S | 19.8 | 32.7 | 38.0 | 30.7 |
| 14-55P | 12.8 | 25.6 | 30.9 | 23.7 |
| 14-55S | 15.6 | 28.3 | 33.8 | 26.5 |

### SERIES 804 UNMATE FORCE

| Layout | Average Force Pounds | Average Force Newtons |
|---|---|---|
| 5-3 | 10.6 | 47.1 |
| 6-4 | 10.8 | 48.0 |
| 6-7 | 11.4 | 50.7 |
| 7-10 | 12.0 | 53.4 |
| 8-13 | 12.6 | 56.0 |
| 9-19 | 13.8 | 61.4 |
| 10-26 | 15.2 | 67.6 |
| 12-37 | 17.4 | 77.4 |
| 14-55 | 21.0 | 93.4 |



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# Series 804 Push-Pull Mighty Mouse Plug Connector Ordering Information

## 804-001 & 804-002

***Series 804 Plug Connector***

***Quick Disconnect***
These plugs snap securely into receptacle housings and release with a simple pull.

***Two Keying Styles***
A single master key provides fast mating in low-light situations, or specify three keys for more polarizing options.

***Two Shell Styles***
Integral platform for direct shield attachment using the *BAND-IT®* termination system, or an accessory thread for attaching a strain relief.

## HOW TO ORDER

**Sample Part Number**

| 804-001 | -06 | M | 9-19 | S | |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**804-001**<br>Plug with Banding Platform<br> <br>**804-002**<br>Plug with Accessory Thread | **-06**<br>Plug | **C**<br>Aluminum / Black Anodize (Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated<br>RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE G-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/ or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D |

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# Series 804 Push-Pull Mighty Mouse Plug Connector Dimensions

## 804-001-06 and 804-002-06

***Integral Band Platform***
804-001-06

***Accessory Thread***
804-002-06

| DIMENSIONS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Shell Size** | **Ø A Max.** | | **Ø B** | | **Ø C** | | **Ø D** | | **E Threads** |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | |
| **5** | .427 | 10.85 | .246 | 6.25 | .219 | 5.56 | .250 | 6.35 | .2500-32 UNEF-2A |
| **6** | .495 | 12.57 | .286 | 7.26 | .282 | 7.16 | .313 | 7.95 | .3125-32 UNEF-2A |
| **7** | .575 | 14.61 | .390 | 9.91 | .351 | 8.92 | .383 | 9.73 | .4375-28 UNEF-2A |
| **8** | .614 | 15.60 | .442 | 11.23 | .398 | 10.11 | .429 | 10.90 | .5000-28 UNEF-2A |
| **9** | .670 | 17.02 | .500 | 12.70 | .454 | 11.53 | .486 | 12.34 | .5625-24 UNEF-2A |
| **10** | .745 | 18.92 | .564 | 14.33 | .529 | 13.44 | .563 | 14.30 | .6250-24 UNEF-2A |
| **12** | .865 | 21.97 | .650 | 16.51 | .646 | 16.41 | .676 | 17.17 | .6875-24 UNEF-2A |
| **14** | .985 | 25.02 | .805 | 20.45 | .768 | 19.51 | .800 | 20.32 | .9375-20 UNEF-2A |

| SERIES 804 PLUG KEY POSITIONS | | |
|---|---|---|
| | **A°** | **B°** |
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 804 Push-Pull Mighty Mouse Crimp Receptacles

## 804-003 and 804-004

Glenair®

***In-Line***
804-003-01

***Rear Panel Jam Nut Mount***
804-003-07

***Front Panel Jam Nut Mount***
804-003-00

***Integral Band Platform*** for direct attachment of a cable shield. Install a boot, or overmold directly onto the band platform. Or, choose an accessory thread for attaching strain reliefs and backshells.

***Three Shell Styles***
Jam nut with O-ring for front or rear panel mounting, or in-line receptacles for free-hanging cables.

***Watertight, Shielded***
O-ring inside the receptacle provides a dynamic seal when mated. Gold-plated spring provides secure mechanical retention and low shell-to-shell resistance for excellent EMI shielding.

## HOW TO ORDER

**Sample Part Number**

| 804-003 | -01 | M | 7-10 | P | |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**804-003**<br>Receptacle with Banding Platform<br> <br>**804-004**<br>Receptacle with Accessory Thread | <br>**-00**<br>Jam Nut for Front Panel Mounting<br> <br>**-01**<br>In-Line for Free-Hanging Cable<br> <br>**-07**<br>Jam Nut for Rear Panel Mounting | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE G-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed. Coaxial contacts and non-standard signal contacts are ordered separately. | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D |

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# Series 804 Push-Pull Mighty Mouse
# Jam Nut Rear Panel Receptacle Dimensions
## 804-004-07 and 804-003-07

*Grommet protrudes for power/combo arrangements

***Accessory Thread***
804-004-07

***Integral Band Platform***
804-003-07

## DIMENSIONS

| Shell Size | Ø A | | Ø B | | C Flat | | D Threads | E Threads | Ø F | | Ø G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | | In. | mm. | In. | mm. |
| **5** | .790 | 20.07 | .562 | 14.27 | .415 | 10.54 | .4375-32 UN-2A | .2500-32 UNEF-2A | .450 | 11.43 | .246 | 6.25 |
| **6** | .830 | 21.08 | .625 | 15.87 | .467 | 14.40 | .5000-32 UN-2A | .3125-32 UNEF-2A | .520 | 13.21 | .286 | 7.26 |
| **7** | .910 | 23.11 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .4375-28 UNEF-2A | .580 | 14.73 | .390 | 9.91 |
| **8** | .955 | 24.26 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .5000-28 UNEF-2A | .603 | 15.32 | .442 | 11.23 |
| **9** | 1.000 | 25.40 | .812 | 20.62 | .655 | 16.64 | .6875-28 UN-2A | .5625-24 UNEF-2A | .695 | 17.65 | .500 | 12.70 |
| **10** | 1.085 | 27.48 | .875 | 22.22 | .721 | 18.31 | .7500-28 UN-2A | .6250-24 UNEF-2A | .735 | 18.67 | .564 | 14.33 |
| **11** | 1.135 | 28.83 | .938 | 23.83 | .788 | 20.02 | .8125-28 UN-2A | .6875-24 UNEF-2A | .810 | 20.57 | .564 | 14.33 |
| **12** | 1.180 | 29.97 | 1.000 | 25.40 | .843 | 21.41 | .8750-28 UN-2A | .6875-24 UNEF-2A | .880 | 22.35 | .650 | 16.51 |
| **14** | 1.325 | 33.66 | 1.125 | 28.57 | .968 | 24.59 | 1.0000-28 UN-2A | .9375-20 UNEF-2A | 1.010 | 25.65 | .805 | 20.45 |
| **15** | 1.390 | 35.31 | 1.188 | 30.18 | 1.029 | 18.31 | 1.0625-20 UN-2A | .9375-20 UNEF-2A | 1.060 | 26.92 | .564 | 14.33 |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| **E** | 75° | 275° |
| F | 95° | 210° |

## JAM NUT REAR PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| **5** | .427/.423 | 10.85/10.74 | .448 | 11.38 |
| **6** | .479/.475 | 12.17/12.07 | .510 | 12.95 |
| **7** | .606/.602 | 15.39/15.29 | .635 | 16.13 |
| **8** | .606/.602 | 15.39/15.29 | .635 | 16.13 |
| **9** | .667/.663 | 16.94/16.84 | .695 | 17.65 |
| **10** | .734/.729 | 18.64/18.52 | .760 | 19.30 |
| **11** | .801/.796 | 20.35/20.22 | .760 | 19.30 |
| **12** | .855/.851 | 21.72/21.62 | .822 | 20.88 |
| **14** | .980/.976 | 24.89/24.79 | 1.010 | 25.65 |
| **15** | 1.041/1.037 | 26.44/26.34 | 1.070 | 27.18 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 804 Push-Pull Mighty Mouse
# Jam Nut Front Panel Receptacle Dimensions
## 804-004-00 and 804-003-00

*Grommet protrudes for power/combo arrangements

***Accessory Thread***
804-004-00

***Integral Band Platform***
804-003-00

## DIMENSIONS

| Shell Size | Ø A | | B Threads | C Threads | Ø D | | Ø E | | F Flat | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | | | In. | mm. | In. | mm. | In. | mm. |
| **5** | .830 | 21.08 | .5000-32 UN-2A | .2500-32 UNEF-2A | .246 | 6.25 | .625 | 15.87 | .470 | 11.94 |
| **6** | .885 | 22.48 | .5625-32 UN-2A | .3125-32 UNEF-2A | .286 | 7.26 | .688 | 17.47 | .530 | 13.46 |
| **7** | .995 | 25.27 | .6875-28 UN-2A | .4375-28 UNEF-2A | .390 | 9.91 | .812 | 20.62 | .663 | 16.84 |
| **8** | .995 | 25.27 | .6875-28 UN-2A | .5000-28 UNEF-2A | .442 | 11.23 | .812 | 20.62 | .663 | 16.84 |
| **9** | 1.075 | 27.31 | .7500-28 UN-2A | .5625-24 UNEF-2A | .500 | 12.70 | .875 | 22.22 | .720 | 18.29 |
| **10** | 1.140 | 28.95 | .8125-28 UN-2A | .6250-24 UNEF-2A | .564 | 14.33 | .938 | 23.82 | .788 | 20.02 |
| **11** | 1.190 | 30.23 | .8750-28 UN-2A | .6875-24 UNEF-2A | .650 | 16.51 | 1.125 | 28.57 | .970 | 24.64 |
| **12** | 1.340 | 34.04 | 1.0000-28 UN-2A | .6875-24 UNEF-2A | .650 | 16.51 | 1.125 | 28.57 | .970 | 24.64 |
| **14** | 1.390 | 35.31 | 1.0620-20 UN-2A | .9375-20 UNEF-2A | .805 | 20.45 | 1.188 | 30.18 | 1.020 | 25.91 |
| **15** | 1.450 | 36.83 | 1.1250-28 UN-2A | .9375-20 UNEF-2A | .650 | 16.51 | 1.125 | 28.57 | .970 | 24.64 |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

## JAM NUT FRONT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| **5** | .482/.478 | 12.24/12.14 | .510 | 12.95 |
| **6** | .542/.538 | 13.77/13.67 | .575 | 14.61 |
| **7** | .676/.671 | 17.17/17.04 | .698 | 17.73 |
| **8** | .676/.671 | 17.17/17.04 | .698 | 17.73 |
| **9** | .732/.728 | 18.59/18.49 | .760 | 19.30 |
| **10** | .801/.796 | 20.35/20.22 | .822 | 20.88 |
| **11** | .855/.851 | 21.72/21.62 | .885 | 22.48 |
| **12** | .982/.978 | 24.94/14.84 | 1.010 | 25.65 |
| **14** | 1.032/1.028 | 26.21/26.11 | 1.075 | 27.31 |
| **15** | 1.015/1.011 | 25.78/25.68 | 1.075 | 28.83 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 804 Push-Pull Mighty Mouse In-Line Receptacle Dimensions

## 804-004-01 and 804-003-01

*Grommet protrudes for power/combo arrangements

***Accessory Thread***
804-004-01

***Integral Band Platform***
804-003-01

### DIMENSIONS

| Shell Size | Ø A | | B Threads | Ø C | |
|---|---|---|---|---|---|
| | In. | mm. | | In. | mm. |
| **5** | .450 | 11.43 | .2500-32 UNEF-2A | .246 | 6.25 |
| **6** | .480 | 12.19 | .3125-32 UNEF-2A | .286 | 7.26 |
| **7** | .580 | 14.73 | .4375-28 UNEF-2A | .390 | 9.91 |
| **8** | .603 | 15.32 | .5000-28 UNEF-2A | .442 | 11.23 |
| **9** | .695 | 17.65 | .5625-24 UNEF-2A | .500 | 12.70 |
| **10** | .735 | 18.67 | .6250-24 UNEF-2A | .564 | 14.33 |
| **12** | .880 | 22.35 | .6875-24 UNEF-2A | .650 | 16.51 |
| **14** | 1.010 | 25.65 | .9375-20 UNEF-2A | .805 | 20.45 |

### ALTERNATE KEY POSITIONS

| Pos. | `A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |



Dimensions in inches (millimeters) and are subject to change without notice.

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REV 28-APRIL-2014

# Series 804 Push-Pull Mighty Mouse
# PCB or Solder Cup Receptacle Ordering Information
## 804-005, 804-020

***Series 804 Printed Circuit Board Receptacle***

***Panel Mount Receptacles*** feature factory-installed non-removable contacts. Choose solder cup or printed circuit board terminals. Available in front or rear panel mount versions.

***Water Immersion, Unmated***

Specify ***8040-005*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***804-020*** watertight connectors . These 804-020 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x $10^{-4}$ cc/second at one atmosphere pressure differential from -40C to +70C.

**HOW TO ORDER SERIES 804 PRINTED CIRCUIT BOARD RECEPTACLES**

**Sample Part Number**

| 804-005 | -07 | NF | 9-4 | E | |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **804-005**<br>Receptacle for Solder Cup or PCB Termination, With Standard Epoxy Potting<br><br>**804-020**<br>Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. | <br>**- 00**<br>Jam Nut, Front Panel<br><br> <br>**- 07**<br>Jam Nut, Rear Panel | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br><br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br><br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br><br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br><br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br><br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br><br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE G-2 | **P**<br>Pin, PC Tail<br><br>**S**<br>Socket, PC Tail<br><br>**E**<br>Pin, Solder Cup<br><br>**F**<br>Socket, Solder Cup | **Omit**<br>for Single Master Key<br><br>**A**<br>Pos. A (Normal)<br><br>**B**<br>Pos. B<br><br>**C**<br>Pos. C<br><br>**D**<br>Pos. D |

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# Series 804 Push-Pull Mighty Mouse
# Rear Panel Jam Nut Receptacle Dimensions
## 804-005-07, 804-020-007

***Rear Panel Jam Nut***
804-005-07

## DIMENSIONS

| Shell Size | Ø A | | Ø B | | C Flat | | D Threads | Ø E | | Ø F | | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | |
| **5** | .730 | 18.54 | .562 | 14.27 | .415 | 10.54 | .4375-32 UN-2A | .275 | 6.98 | .435 | 11.05 | **#23** .018/.022 (0.46/0.56) |
| **6** | .730 | 18.54 | .625 | 15.87 | .467 | 14.40 | .5000-32 UN-2A | .330 | 8.38 | .483 | 12.27 | |
| **7** | .910 | 23.11 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .432 | 10.97 | .570 | 14.48 | **#20** .024/.028 (0.61/0.71) |
| **8** | .955 | 24.26 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .493 | 12.52 | .593 | 15.06 | |
| **9** | 1.000 | 25.40 | .812 | 20.62 | .655 | 16.64 | .6875-28 UN-2A | .551 | 14.00 | .685 | 17.40 | **#16** .060/.064 (1.52/1.63) |
| **10** | 1.085 | 27.48 | .875 | 22.22 | .721 | 18.31 | .7500-28 UN-2A | .620 | 15.75 | .725 | 18.42 | |
| **12** | 1.190 | 30.23 | 1.000 | 25.40 | .843 | 21.41 | .8750-28 UN-2A | .703 | 17.86 | .850 | 21.59 | **#12** .092/.096 (2.34/2.44) |
| **14** | 1.325 | 33.66 | 1.125 | 28.57 | .968 | 24.59 | 1.0000-28 UN-2A | .863 | 21.92 | .973 | 24.71 | |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

## JAM NUT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| **5** | .423 | 10.74 | .448 | 11.38 |
| **6** | .475 | 12.07 | .510 | 12.95 |
| **7** | .602 | 15.29 | .635 | 16.13 |
| **8** | .602 | 15.29 | .635 | 16.13 |
| **9** | .663 | 16.84 | .698 | 17.73 |
| **10** | .729 | 18.82 | .760 | 19.30 |
| **12** | .851 | 21.62 | .885 | 22.48 |
| **14** | .976 | 24.79 | 1.010 | 25.65 |

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# Series 804 Push-Pull Mighty Mouse
# Front Panel Jam Nut Receptacle Dimensions
## 804-005-00, 804-020-00

***Front Panel Jam Nut***
804-005-00

## DIMENSIONS

| Shell Size | Ø A In. | Ø A mm. | B Threads | Ø C In. | Ø C mm. | Ø D In. | Ø D mm. | E Flat In. | E Flat mm. | Ø F Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|
| **5** | .830 | 21.08 | .5000-32 UN-2A | .275 | 6.98 | .625 | 15.87 | .470 | 11.94 | **#23** .018/.022 (0.46/0.56) |
| **6** | .885 | 22.48 | .5625-28 UN-2A | .330 | 8.38 | .688 | 17.47 | .530 | 13.46 | |
| **7** | .995 | 25.27 | .6875-28 UN-2A | .432 | 10.97 | .812 | 20.62 | .663 | 16.84 | **#20** .024/.028 (0.61/0.71) |
| **8** | .995 | 25.27 | .6875-28 UN-2A | .493 | 12.52 | .812 | 20.62 | .663 | 16.84 | |
| **9** | 1.075 | 27.31 | .7500-28 UN-2A | .551 | 14.00 | .875 | 22.22 | .720 | 18.29 | **#16** .060/.064 (1.52/1.63) |
| **10** | 1.140 | 28.95 | .8125-28 UN-2A | .620 | 15.75 | .938 | 23.82 | .788 | 20.02 | |
| **12** | 1.340 | 34.04 | 1.0000-28 UN-2A | .703 | 17.86 | 1.125 | 28.57 | .970 | 24.64 | **#12** .092/.096 (2.34/2.44) |
| **14** | 1.390 | 35.31 | 1.0625-20 UN-2A | .863 | 21.92 | 1.188 | 30.18 | 1.020 | 25.91 | |

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

## JAM NUT PANEL CUTOUT

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| **5** | .423 | 10.74 | .448 | 11.38 |
| **6** | .475 | 12.07 | .510 | 12.95 |
| **7** | .588 | 14.94 | .635 | 16.13 |
| **8** | .602 | 15.29 | .635 | 16.13 |
| **9** | .663 | 16.84 | .698 | 17.73 |
| **10** | .729 | 18.82 | .760 | 19.30 |
| **12** | .851 | 21.62 | .885 | 22.48 |
| **14** | .976 | 24.79 | 1.010 | 25.65 |

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# Series 804 Push-Pull Mighty Mouse Panel Mount Plug Ordering Information

## 804-009, 804-020

***Series 804 Panel Mount Plug (Style 07 shown)***

***Panel Mount Plugs*** save space inside the box compared to Series 804 receptacles. Factory-installed non-removable contacts. Solder cup or printed circuit board terminals. Available in front or rear panel mount versions.

***Ingress Protection, Unmated***

Specify ***804-009*** connectors for applications where open face water immersion is not a requirement. For IP67 ingress protection and MIL-STD-810 Method 512 immersion requirements, specify ***804-021*** watertight connectors certified to meet one atmosphere pressure differential in open face condition from -40° to +70°C.

***"Push-Pull" Quick-Disconnect***

Canted spring securely retains the mating plug.

## HOW TO ORDER SERIES 804 PANEL MOUNT PLUGS

**Sample Part Number**

| 804-009 | -07 | NF | 10-26 | E | |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **804-009**<br>Panel Mount Plug, Solder Cup or PCB Termination, With Standard Epoxy Potting<br><br>**804-021**<br>Panel Mount Plug, Solder Cup or PCB Termination, With Resilient Silicone Potting For Watertight Seal from -40° to +70°C (15 PSI Pressure Differential) | <br>**- 00**<br>Jam Nut, Front Panel<br> <br>**- 07**<br>Jam Nut, Rear Panel<br> <br>**- 02**<br>Flange Mount, Rear Panel | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE G-2 | **P**<br>Pin, PC Tail<br>**S**<br>Socket, PC Tail<br>**E**<br>Pin, Solder Cup<br>**F**<br>Socket, Solder Cup | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D |

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# Series 804 Push-Pull Mighty Mouse
# Jam Nut Panel Mount Plug Dimensions
## 804-009-07, 804-021-07

## DIMENSIONS

| Shell Size | Ø A | | Ø B | | C Threads | Ø D | | Ø E | | F Flat | | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | In. | mm. | |
| 5 | .790 | 20.07 | .244 | 6.20 | .4375-32 UN-2A | .219 | 5.56 | .250 | 6.35 | .415 | 10.54 | **#23** .018/.022 (0.46/0.56) |
| 6 | .830 | 21.08 | .330 | 8.38 | .5000-32 UN-2A | .282 | 7.16 | .313 | 7.95 | .467 | 11.86 | |
| 7 | .910 | 23.11 | .432 | 10.97 | .6250-28 UN-2A | .351 | 8.92 | .383 | 9.73 | .594 | 15.09 | **#20** .024/.028 (0.61/0.71) |
| 8 | .955 | 24.26 | .493 | 12.52 | .6250-28 UN-2A | .398 | 10.11 | .429 | 10.90 | .594 | 15.09 | |
| 9 | 1.000 | 25.40 | .551 | 14.00 | .6875-28 UN-2A | .454 | 11.53 | .486 | 12.34 | .655 | 16.64 | **#16** .060/.064 (1.52/1.63) |
| 10 | 1.085 | 27.56 | .620 | 15.75 | .7500-28 UN-2A | .529 | 13.44 | .563 | 14.30 | .721 | 18.31 | |
| 12 | 1.180 | 29.97 | .703 | 17.86 | .8750-28 UN-2A | .646 | 16.41 | .676 | 17.17 | .843 | 21.41 | **#12** .092/.096 (2.34/2.44) |
| 14 | 1.325 | 33.66 | .863 | 21.92 | 1.0000-28 UN-2A | .768 | 19.51 | .800 | 20.32 | .968 | 24.59 | |

## JAM NUT PANEL CUTOUT

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| 5 | .423 | 10.74 | .448 | 11.38 |
| 6 | .475 | 12.07 | .510 | 12.95 |
| 7 | .588 | 14.94 | .635 | 16.13 |
| 8 | .602 | 15.29 | .635 | 16.13 |
| 9 | .663 | 16.84 | .698 | 17.73 |
| 10 | .729 | 18.82 | .760 | 19.30 |
| 12 | .851 | 21.62 | .885 | 22.48 |
| 14 | .976 | 24.79 | 1.010 | 25.65 |

## SERIES 804 PLUG KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 804 Push-Pull Mighty Mouse
# Jam Nut Front Panel Mount Plug Dimensions
## 804-009-00, 804-021-00

## DIMENSIONS

| Shell Size | A Flat In. | A Flat mm. | Ø B In. | Ø B mm. | C Threads | Ø D In. | Ø D mm. | Ø E In. | Ø E mm. | Ø F In. | Ø F mm. | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | .415 | 10.54 | .244 | 6.20 | .4375-32 UN-2A | .219 | 5.56 | .250 | 6.35 | .790 | 20.07 | #23 .018/.022 (0.46/0.56) |
| 6 | .467 | 11.86 | .330 | 8.38 | .5000-32 UN-2A | .282 | 7.16 | .313 | 7.95 | .830 | 21.08 | |
| 7 | .594 | 15.09 | .432 | 10.97 | .6250-28 UN-2A | .351 | 8.92 | .383 | 9.73 | .910 | 23.11 | #20 .024/.028 (0.61/0.71) |
| 8 | .594 | 15.09 | .493 | 12.52 | .6250-28 UN-2A | .398 | 10.11 | .429 | 10.90 | .955 | 24.26 | |
| 9 | .655 | 16.64 | .551 | 14.00 | .6875-28 UN-2A | .454 | 11.53 | .486 | 12.34 | 1.000 | 25.40 | #16 .060/.064 (1.52/1.63) |
| 10 | .721 | 18.31 | .620 | 15.75 | .7500-28 UN-2A | .529 | 13.44 | .563 | 14.30 | 1.085 | 27.56 | |
| 12 | .843 | 21.41 | .703 | 17.86 | .8750-28 UN-2A | .646 | 16.41 | .676 | 17.17 | 1.180 | 29.97 | #12 .092/.096 (2.34/2.44) |
| 14 | .968 | 24.59 | .863 | 21.92 | 1.0000-28 UN-2A | .768 | 19.51 | .800 | 20.32 | 1.325 | 33.66 | |

## JAM NUT PANEL CUTOUT

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| 5 | .423 | 10.74 | .448 | 11.38 |
| 6 | .475 | 12.07 | .510 | 12.95 |
| 7 | .588 | 14.94 | .635 | 16.13 |
| 8 | .602 | 15.29 | .635 | 16.13 |
| 9 | .663 | 16.84 | .698 | 17.73 |
| 10 | .729 | 18.82 | .760 | 19.30 |
| 12 | .851 | 21.62 | .885 | 22.48 |
| 14 | .976 | 24.79 | 1.010 | 25.65 |

## SERIES 804 PLUG KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

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# Series 804 Push-Pull Mighty Mouse Flanged Panel Mount Plug Dimensions

## 804-009-02, 804-021-02

| DIMENSIONS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Shell Size | A | | B | | Ø C | | Ø D | | Ø E | | Ø F | | Ø G Tail Dia. |
| | | | In. | mm. | | | | | | | | | |
| | In. | mm. | ±.005 | ±0.13 | In. | mm. | In. | mm. | In. | mm. | In. | mm. | |
| **5** | 1.055 | 26.80 | .755 | 19.18 | .244 | 6.20 | .219 | 5.56 | .250 | 6.35 | .320 | 8.13 | **#23** .018/.022 (0.46/0.56) |
| **6** | 1.120 | 28.45 | .820 | 20.83 | .330 | 8.38 | .282 | 7.16 | .313 | 7.95 | .385 | 9.78 | |
| **7** | 1.185 | 30.10 | .885 | 22.48 | .432 | 10.97 | .351 | 8.92 | .383 | 9.73 | .450 | 11.43 | **#20** .024/.028 (0.61/0.71) |
| **8** | 1.230 | 31.24 | .930 | 23.62 | .493 | 12.52 | .398 | 10.11 | .429 | 10.90 | .495 | 12.57 | |
| **9** | 1.290 | 32.77 | .990 | 25.15 | .551 | 14.00 | .454 | 11.53 | .486 | 12.34 | .555 | 14.10 | **#16** .060/.064 (1.52/1.63) |
| **10** | 1.360 | 34.54 | 1.060 | 26.92 | .620 | 15.75 | .529 | 13.44 | .563 | 14.30 | .625 | 15.88 | |
| **12** | 1.485 | 37.72 | 1.185 | 30.10 | .703 | 17.86 | .646 | 16.41 | .676 | 17.17 | .750 | 19.05 | **#12** .092/.096 (2.34/2.44) |
| **14** | 1.600 | 40.64 | 1.300 | 33.02 | .863 | 21.92 | .768 | 19.51 | .800 | 20.32 | .865 | 21.97 | |

| SERIES 804 PLUG KEY POSITIONS | | |
|---|---|---|
| | **A°** | **B°** |
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 804 Push-Pull Mighty Mouse Hermetic Receptacle Ordering Information

## 804-006

***Series 804 Hermetic Jam Nut Mount***

***Series 804 Hermetic Receptacles*** feature 304L stainless steel shells, fused vitreous glass insulators and gold-plated Alloy 52 iron alloy contacts.

***1 X $10^{-7}$ cc/second*** maximum helium leak rate when tested at 1 atmosphere vacuum.

***Two Shell Styles*** are available:
***Style 00*** for front panel mounting
***Style 07*** for rear panel mounting.

***"Push-Pull" Quick-Disconnect***
Canted coil spring securely retains mating plug connector and provides low shell-to-shell resistance for excellent EMI shielding. O-ring inside receptacle shell provides water-tight seal when mated.

**HOW TO ORDER**

**Sample Part Number**

| 804-006 | -07 | Z1 | 9-19 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size/Insert** | **Contact Type** | **Shell Key Position** |
| **804-006**<br>Hermetic Receptacle with Printed Circuit Board Contacts or Solder Cup Contacts | <br>**-00**<br>Jam Nut, Front Panel<br> <br>**-07**<br>Jam Nut, Rear Panel | **Z1**<br>Stainless Steel / Passivated<br>**ZL**<br>Stainless Steel/ Nickel Plated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE G-2 | **P**<br>Pin, Solder Cup<br>**C**<br>Pin, PC Tail<br>**S**<br>Socket, Solder Cup<br>**D**<br>Socket, PC Tail | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D |

G

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REV 13-MARCH-2013

# Series 804 Push-Pull Mighty Mouse
# Rear Panel Jam Nut Hermetic Receptacle Dimensions
## 804-006-07

***Rear Panel Jam Nut***
804-006-07

**DIMENSIONS**

| Shell Size | Ø A | | Ø B | | C Flat | | D Threads | Ø E | | Ø F | | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | |
| **5** | .790 | 20.07 | .562 | 14.27 | .415 | 10.54 | .4375-32 UN-2A | .244 | 6.20 | .450 | 11.43 | **#23** .018/.022 (0.46/0.56) |
| **6** | .830 | 21.08 | .625 | 15.87 | .467 | 14.40 | .5000-32 UN-2A | .330 | 8.38 | .520 | 13.21 | |
| **7** | .910 | 23.11 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .432 | 10.97 | .580 | 14.73 | **#20** .024/.028 (0.61/0.71) |
| **8** | .955 | 24.26 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .493 | 12.52 | .603 | 15.32 | |
| **9** | 1.000 | 25.40 | .812 | 20.62 | .655 | 16.64 | .6875-28 UN-2A | .551 | 14.00 | .695 | 17.65 | **#16** .060/.064 (1.52/1.63) |
| **10** | 1.085 | 27.48 | .875 | 22.22 | .721 | 18.31 | .7500-28 UN-2A | .620 | 15.75 | .735 | 18.67 | |
| **12** | 1.180 | 29.97 | 1.000 | 25.40 | .843 | 21.41 | .8750-28 UN-2A | .703 | 17.86 | .880 | 22.35 | **#12** .092/.096 (2.34/2.44) |
| **14** | 1.325 | 33.66 | 1.125 | 28.57 | .968 | 24.59 | 1.0000-28 UN-2A | .863 | 21.92 | 1.010 | 25.65 | |

**ALTERNATE KEY POSITIONS**

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

**JAM NUT PANEL CUTOUT**

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| **5** | .423 | 10.74 | .448 | 11.38 |
| **6** | .475 | 12.07 | .510 | 12.95 |
| **7** | .588 | 14.94 | .635 | 16.13 |
| **8** | .602 | 15.29 | .635 | 16.13 |
| **9** | .663 | 16.84 | .698 | 17.73 |
| **10** | .729 | 18.82 | .760 | 19.30 |
| **12** | .851 | 21.62 | .885 | 22.48 |
| **14** | .976 | 24.79 | 1.010 | 25.65 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 804 Push-Pull Mighty Mouse
# Front Panel Jam Nut Hermetic Receptacle Dimensions
## 804-006-00

***Front Panel Jam Nut***
804-006-00

| DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Shell Size | Ø A | | B Threads | Ø C | | Ø D | | E Flat | | Ø F Tail Dia. |
| | In. | mm. | | In. | mm. | In. | mm. | In. | mm. | |
| **5** | .830 | 21.08 | .4375-32 UN-2A | .244 | 6.20 | .625 | 15.87 | .470 | 11.94 | **#23** .018/.022 (0.46/0.56) |
| **6** | .885 | 22.48 | .5000-32 UN-2A | .330 | 8.38 | .688 | 17.47 | .530 | 13.46 | |
| **7** | .995 | 25.27 | .6875-28 UN-2A | .432 | 10.97 | .812 | 20.62 | .663 | 16.84 | **#20** .024/.028 (0.61/0.71) |
| **8** | .995 | 25.27 | .6875-28 UN-2A | .493 | 12.52 | .812 | 20.62 | .663 | 16.84 | |
| **9** | 1.075 | 27.31 | .7500-28 UN-2A | .551 | 14.00 | .875 | 22.22 | .720 | 18.29 | **#16** .060/.064 (1.52/1.63) |
| **10** | 1.140 | 28.95 | .7500-28 UN-2A | .620 | 15.75 | .938 | 23.82 | .788 | 20.02 | |
| **12** | 1.340 | 34.04 | 1.0000-28 UN-2A | .703 | 17.86 | 1.125 | 28.57 | .970 | 24.64 | **#12** .092/.096 (2.34/2.44) |
| **14** | 1.390 | 35.31 | 1.0625-20 UN-2A | .863 | 21.92 | 1.188 | 30.18 | 1.020 | 25.91 | |

G

## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

## JAM NUT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| **5** | .423 | 10.74 | .448 | 11.38 |
| **6** | .475 | 12.07 | .510 | 12.95 |
| **7** | .588 | 14.94 | .635 | 16.13 |
| **8** | .602 | 15.29 | .635 | 16.13 |
| **9** | .663 | 16.84 | .698 | 17.73 |
| **10** | .729 | 18.82 | .760 | 19.30 |
| **12** | .851 | 21.62 | .885 | 22.48 |
| **14** | .976 | 24.79 | 1.010 | 25.65 |

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# Series 804 Push-Pull Mighty Mouse Bulkhead Feedthrough Receptacle Connector

## 804-067-07 Jam Nut

*Series 804 Feedthrough*

This series 804 bulkhead feedthrough receptacle is available in shell sizes 5 to 15 and mates with all high densisty push/pull plug connectors with the same polarization and opposite contact genders (804-001 and 804-002). Copper alloy gold-plated contacts, pins to pin, pin to socket or socket to socket. Your choice of standard aluminum alloy or stainless steel and seven standard finishes (see below). Please contact the factory for other materials and finishes. UN mating thread.

## HOW TO ORDER

**Sample Part Number**

| 804-067 | -07 | M | 6-7 | P | P | N |
|---|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** Jam Nut Side | **Contact Type** Other Side | **Shell Key Position** |
| **804-067** Feedthrough Receptacle Jam Nut Mount | **-07** Jam Nut | **C** Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M** Aluminum / Electroless Nickel RoHS Compliant<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZN** Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1** Stainless Steel / Passivated RoHS Compliant | SEE ***CONTACT ARRANGEMENTS*** PAGE G-2 | **P** Pin<br>**S** Socket | **P** Pin<br>**S** Socket | **A** Pos. A<br>**B** Pos. B<br>**C** Pos. C<br>**D** Pos. D<br>**E** Pos. E<br>**F** Pos. F |

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# Series 804 Push-Pull Mighty Mouse Bulkhead Feedthrough Receptacle Connector

## 804-067-07 Jam Nut

### DIMENSIONS

| Shell Size | A Thread | B Flat | | Ø C | | Ø D | |
|---|---|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. | In. | mm. |
| 5 | .4375-32 UN-2A | .415 | 10.54 | .730 | 18.54 | .450 | 11.43 |
| 6 | .5000-32 UN-2A | .467 | 11.86 | .730 | 18.54 | .480 | 12.19 |
| 7 | .6250-28 UN-2A | .580 | 14.73 | .900 | 22.86 | .580 | 14.73 |
| 8 | .6250-28 UN-2A | .580 | 14.73 | .945 | 24.00 | .603 | 15.32 |
| 9 | .6875-28 UN-2A | .655 | 16.64 | 1.000 | 25.40 | .695 | 17.65 |
| 10 | .7500-28 UN-2A | .721 | 18.31 | 1.075 | 27.31 | .735 | 18.67 |
| 11 | .8750-28 UN-2A | .790 | 20.07 | 1.140 | 28.96 | .810 | 20.57 |
| 12 | 8125-28 UN-2A | .843 | 21.41 | 1.190 | 30.23 | .880 | 22.35 |
| 14 | 8750-28 UN-2A | .968 | 24.59 | 1.312 | 33.32 | 1.010 | 25.65 |
| 15 | 1.0625-20 UN-2A | 1.030 | 26.16 | 1.375 | 34.93 | 1.060 | 26.92 |

### ALTERNATE KEY POSITIONS

| Key Position | Key Rotation | |
|---|---|---|
| | A | B |
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

### SERIES 800 PANEL CUTOUTS

| Shell Size | E Flat | | Ø F | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 5 | .425/.421 | 10.80/10.69 | .448 | 11.38 |
| 6 | .477/.473 | 12.12/12.01 | .510 | 12.95 |
| 7 | .590/.586 | 14.99/14.88 | .635 | 16.13 |
| 8 | .590/.586 | 14.99/14.88 | .635 | 16.13 |
| 9 | .665/.661 | 16.89/16.79 | .698 | 17.73 |
| 10 | .731/.727 | 18.57/18.47 | .760 | 19.30 |
| 11 | .800/.796 | 20.32/20.22 | .823 | 20.90 |
| 12 | .853/.849 | 21.67/21.56 | .885 | 22.48 |
| 14 | .978/.974 | 24.84/24.74 | 1.010 | 25.65 |
| 15 | 1.040/1.036 | 26.42/26.31 | 1.073 | 27.25 |

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# Series 804 Push-Pull Mighty Mouse Overmolded ASAP Cordset Ordering Information

## 804-015

*Overmolded Cordset*

***Glenair's ASAP Mighty Mouse Overmolded Cordsets*** offer environmental protection and excellent cold temperature flexibility. These cables are 100% tested and ready to use. Standard overmolded cables feature low smoke zero halogen polyurethane jackets.

***Tired of set-up charges and factory minimums?*** Glenair's Mighty Mouse ASAP cordsets have no minimum order quantity and no lot charges.

***Abrasion-Resistant Polyurethane Jacket*** provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

***90% Tinned Copper Braid*** is terminated directly to connector with stainless steel ***BAND-IT®*** strap.

***Watertight Overmold*** provides strain relief and protection.

# Series 804 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT®*** straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing.

Series 801 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following pages.



| HARSH ENVIRONMENT CORDSET SPECIFICATIONS | |
|---|---|
| Cable Jacket Material | Thermoplastic Polyurethane, Black, Low-Smoke, Zero-Halogen |
| Cable Shield | Tin-Coated Copper Braid, 90% Minimum Coverage |
| Conductors | Silver Coated Stranded Wire, TFE Insulated, Per M22759/11 |
| ***BAND-IT®*** Shield Termination Band | Stainless Steel |
| Current Rating | #23 5 Amps, #20HD 7.5 Amps, #16 13 Amps, #12 23 Amps |
| Test Voltage (Dielectric Withstanding Voltage) | #23 500 VAC, #20HD 750 VAC, #16 and #12 1800 VAC Sea Level |
| Insulation Resistance | 200 megohms minimum |
| Operating Temperature | -30° C. to +105° C. |
| Solvent Resistance, Polyamide Overmold | Excellent Resistance to Most Solvents, Fuels, and Oils; Poor Resistance to Strong Acids and Bipolar Solvents (Alcohol) |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |
| Cable jacket Flammability and Toxicity | Toxicity Index 3.9 per NES 713<br>Oxygen Index 28% per ASTM D-2863<br>Smoke Index 24 per NES 711 |

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# Series 804 Push-Pull Mighty Mouse Overmolded ASAP Cordset Ordering Information

## 804-015 and 804-022

### SERIES 804 CORDSETS WITH SIZE #23 CONTACTS

Sample Part Number

| 804-015 | -A | C | 2 | M | 7-10 | P | | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **804-015**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #23 Contacts | **- A**<br>Plug, with Male Pin Contacts<br>**- B**<br>Plug, with Female Socket Contacts<br>**- C**<br>Receptacle, with Male Pin Contacts<br>**- D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#22 AWG<br>**4**<br>#24 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **5-3**<br>**6-4**<br>**6-6**<br>**6-7**<br>**7-10**<br>**8-13**<br>**9-19**<br>**10-26**<br>**12-37**<br>**14-55** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

### SERIES 804 CORDSETS WITH SIZE #20HD CONTACTS

Sample Part Number

| 804-022 | -A | C | 0 | M | 8-28 | P | | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **804-022**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #20HD Contacts | **- A**<br>Plug, with Male Pin Contacts<br>**- B**<br>Plug, with Female Socket Contacts<br>**- C**<br>Receptacle, with Male Pin Contacts<br>**- D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **0**<br>#20 AWG<br>**2**<br>#22 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **6-23**<br>**7-25**<br>**8-28**<br>**9-210**<br>**12-220**<br>**14-235** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

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# Series 804 Push-Pull Mighty Mouse Overmolded ASAP Cordset Ordering Information

## 804-018 and 804-019

Glenair®

## SERIES 804 CORDSETS WITH SIZE #16 CONTACTS

**Sample Part Number**

| 804-018 | -A | C | 6 | M | 9-4 | P | | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **804-018**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #16 Contacts | **- A**<br>Plug, with Male Pin Contacts<br>**- B**<br>Plug, with Female Socket Contacts<br>**- C**<br>Receptacle, with Male Pin Contacts<br>**- D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **6**<br>#16 AWG<br>**8**<br>#18 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **6-1**<br>**8-2**<br>**9-4**<br>**10-5**<br>**12-7**<br>**14-12** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

## SERIES 804 CORDSETS WITH SIZE #12 CONTACTS

**Sample Part Number**

| 804-019 | -A | C | 2 | M | 10-2 | N | | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **804-019**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Polyurethane Jacket, Size #12 Contacts | **- A**<br>Plug, with Male Pin Contacts<br>**- B**<br>Plug, with Female Socket Contacts<br>**- C**<br>Receptacle, with Male Pin Contacts<br>**- D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#12 AWG<br>**4**<br>#14 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **7-1**<br>**10-2**<br>**12-2**<br>**12-3**<br>**14-5** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **Omit**<br>for Single Master Key<br>**A**<br>Pos. A (Normal)<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D | Overall Length In Inches<br>12 Inch Min. |

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# Series 804 Push-Pull Mighty Mouse Overmolded ASAP Cordset Dimensions

## 804-015, 804-018, 804-019

## RIGHT ANGLE CORDSETS

***How To Order Right Angle Cordsets***

Insert the letter "**R**" after the End A or End B Connector letter designator.

***Example***

| | |
|---|---|
| Straight cable | 804-015-AA4M6-4PN-48 |
| Right Angle | 804-015-A***R***A***R***4M6-4PN-48 |

G

| DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Shell Size | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **5** | 2.3 | 55.9 | 0.6 | 15.2 | 1.5 | 38.1 | 0.6 | 15.2 | 2.0 | 48.3 |
| **6** | 2.3 | 55.9 | 0.6 | 15.2 | 1.5 | 38.1 | 0.6 | 15.2 | 2.0 | 48.3 |
| **7** | 2.4 | 55.9 | 0.7 | 17.8 | 1.5 | 38.1 | 0.7 | 17.8 | 2.2 | 53.3 |
| **8** | 2.5 | 58.4 | 0.8 | 19.0 | 1.6 | 40.6 | 0.8 | 19.1 | 2.3 | 55.9 |
| **9** | 2.7 | 66.0 | 0.9 | 21.6 | 1.9 | 48.3 | 0.9 | 21.6 | 2.6 | 61.0 |
| **10** | 2.7 | 66.0 | 0.9 | 21.6 | 1.9 | 48.3 | 0.9 | 21.6 | 2.6 | 61.0 |
| **12** | 3.1 | 73.7 | 1.1 | 27.9 | 2.2 | 55.9 | 1.1 | 27.9 | 3.0 | 73.7 |
| **14** | 3.4 | 81.3 | 1.3 | 33.0 | 2.5 | 63.5 | 1.3 | 33.0 | 3.5 | 83.8 |

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# Series 804 Push-Pull Mighty Mouse Protective Cover Ordering Information

## 667-202 and 809-198

***807-198 Plug Cover***

See next page for ordering info

***Protect Connectors From Damage*** – Machined aluminum covers prevent ingress of contamination and water.

***Stainless Steel Fittings and Rings*** – Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

***Polyurethane-Coated SST Wire Rope*** offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

***Braided Nylon Rope*** provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

## HOW TO ORDER 667-202 RECEPTACLE COVERS

**Sample Part Number**

| 667-202 | M | 9 | H | 6 | -14 | | R |
|---|---|---|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Shell Size** | **Attachment Type** | **Attachment Length in Inches** | **Ring Type and Dia. Code** | | **Pull Ring Option** |
| <br>**667-202**<br>Protective Cover for use with Receptacle Connectors | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | **5**<br>**6**<br>**7**<br>**8**<br>**9**<br>**10**<br>**12**<br>**14** | **G**<br>Nylon Rope<br>**H**<br>SST Wire Rope, Teflon® Jacket<br>**N**<br>No Attachment<br>**S**<br>SST Sash Chain<br>**SK**<br>Nylon Rope With Slip Knot<br>**T**<br>SST Wire Rope, No Jacket<br>**U**<br>SST Wire Rope, Polyurethane Jacket<br><br>"SST" = Stainless Steel | Omit for attachment Type **N** (No Attachment)<br>**Example**<br>"-6" equals six inch length | Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot) | | Omit for None<br><br>**R**<br>Supplied With Pull Ring<br> |
| | | | | | <br>Small Ring | **-01**– .126 (3.20) I.D.<br>**-02**– .145 (3.68) I.D.<br>**-04**– .188 (4.78) I.D.<br>**-06**– .197 (5.00) I.D. | |
| | | | | | <br>Large Ring | **-14**– .385 (9.78) I.D.<br>**-15**– .445 (11.30) I.D.<br>**-16**– .570 (14.48) I.D.<br>**-17**– .635 (16.13) I.D.<br>**-18**– .695 (17.65) I.D.<br>**-19**– .885 (22.48) I.D.<br>**-20**– 1.070 (27.17) I.D.<br>**-21**– 1.135 (28.83) I.D. | |
| | | | | | <br>Split Ring | **-50**– .420 (10.67) I.D.<br>**-52**– .480 (12.19) I.D.<br>**-54**– .635 (16.13) I.D.<br>**-56**– .745 (18.92) I.D.<br>**-58**– .885 (22.48) I.D.<br>**-60**– 1.010 (25.65) I.D.<br>**-64**– 1.125 (28.58) I.D.<br>**-68**– 1.345 (34.16) I.D. | |

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# Series 804 Push-Pull Mighty Mouse Protective Cover Ordering Information

## 809-198 Plug Covers

### HOW TO ORDER 809-198 PLUG COVERS

**Sample Part Number**

| 809-198 | M | 12 | H | 6 | -14 | |
|---|---|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Shell Size** | **Attachment Type** | **Attachment Length in Inches** | **Ring Type and Dia. Code** | **Shell Key Position** |
| <br>**809-198**<br>Protective Cover for use with Plug Connectors | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br><br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br><br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br><br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br><br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br><br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br><br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | **5**<br>**6**<br>**7**<br>**8**<br>**9**<br>**10**<br>**12**<br>**14** | **G**<br>Nylon Rope<br>**H**<br>SST Wire Rope, Teflon® Jacket<br>**N**<br>No Attachment<br>**S**<br>SST Sash Chain<br>**SK**<br>Nylon Rope With Slip Knot<br>**T**<br>SST Wire Rope, No Jacket<br>**U**<br>SST Wire Rope, Polyurethane Jacket<br><br>"SST" = Stainless Steel | Omit for attachment Type **N** (No Attachment)<br>**Example**<br>"-6" equals six inch length | Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot)<br><br> <br>Small Ring<br>**-01**– .126 (3.20) I.D.<br>**-02**– .145 (3.68) I.D.<br>**-04**– .188 (4.78) I.D.<br>**-06**– .197 (5.00) I.D.<br><br> <br>Large Ring<br>**-08**– .510 (13.0) I.D.<br>**-10**– .766 (19.4) I.D.<br>**-12**– 1.015 (25.8) I.D.<br>**-14**– .385 (9.78) I.D.<br>**-15**– .445 (11.30) I.D.<br>**-16**– .570 (14.48) I.D.<br>**-17**– .635 (16.13) I.D.<br>**-18**– .695 (17.65) I.D.<br>**-19**– .885 (22.48) I.D.<br>**-20**– 1.070 (27.17) I.D.<br>**-21**– 1.135 (28.83) I.D.<br>**-25**– .820 (20.8) I.D.<br><br> <br>Split Ring<br>**-50**– .420 (10.67) I.D.<br>**-52**– .480 (12.19) I.D.<br>**-54**– .635 (16.13) I.D.<br>**-56**– .745 (18.92) I.D.<br>**-58**– .885 (22.48) I.D.<br>**-60**– 1.010 (25.65) I.D.<br>**-64**– 1.125 (28.58) I.D.<br>**-68**– 1.345 (34.16) I.D. | **Omit**<br>for Single Master Key<br><br>**A**<br>Pos. A (Normal)<br><br>**B**<br>Pos. B<br><br>**C**<br>Pos. C<br><br>**D**<br>Pos. D |

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# Series 804 Push-Pull Mighty Mouse Protective Receptacle Cover Information

## 667-202

## Attaching a 667-202 Receptacle Cover to a Front Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Conn. Thread Ref | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. |
| 08 | 5 | .5000-32 | .510 | 13.0 | .620 | 15.7 |
| 16 | 6 | .5625-28 | .570 | 14.5 | .690 | 17.5 |
| 18 | 7, 8 | .6875-28 | .695 | 17.7 | .820 | 20.8 |
| 10 | 9 | .7500-28 | .766 | 19.4 | .890 | 22.6 |
| 25 | 10 | .8125-28 | .820 | 20.8 | .940 | 23.9 |
| 12 | 12 | 1.000-28 | 1.015 | 25.8 | 1.200 | 30.5 |
| 20 | 14 | 1.062-20 | 1.070 | 27.2 | 1.200 | 30.5 |
| 21 | 15 | 1.125-28 | 1.135 | 28.8 | 1.250 | 31.8 |

## Attaching a 667-202 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Conn. Thread Ref | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. |
| | | | ± .010 | ±0.25 | ± .015 | ± 0.38 |
| 15 | 5 | .4375-32 | .445 | 11.3 | .570 | 14.5 |
| 08 | 6 | .5000-32 | .510 | 13.0 | .620 | 15.7 |
| 17 | 7, 8 | .6250-28 | .635 | 16.1 | .760 | 19.3 |
| 18 | 9 | .6875-28 | .695 | 17.7 | .820 | 20.8 |
| 10 | 10 | .7500-28 | .766 | 19.4 | .890 | 22.6 |
| 19 | 12 | .8750-28 | .885 | 22.5 | 1.010 | 25.7 |
| 12 | 14 | 1.000-28 | 1.015 | 25.8 | 1.200 | 30.5 |

## Attaching a 667-202 Receptacle Cover to a Panel With a Screw

Small Ring for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. |
| | | ±.005 | ±0.13 | Max. | Max. |
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 04 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

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# Series 804 Push-Pull Mighty Mouse Protective Plug Cover Information

## 809-198 and 667-202

## Attaching a Cover to a Cable Assembly With a Solid Ring

Install cover onto the back of the connector before overmolding or backshell installation.

Solid Ring

| Dia. Code | Shell Size | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. |
| | | ± .010 | ±0.25 | ± .015 | ± 0.38 |
| 14 | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 15 | 7 | .445 | 11.30 | .565 | 14.35 |
| 16 | 8, 9 | .570 | 14.48 | .685 | 17.40 |
| 18 | 10, 12 | .695 | 17.65 | .820 | 20.82 |
| 20 | 14 | 1.070 | 27.17 | 1.195 | 30.35 |

## Attaching a Cover to a Cable Using a Split Ring or Slip Knot

Split rings can be installed onto finished cables.

Large Split Ring for Attaching Covers to Cables

| Dia. Code | Max. Cable Dia. (in.) | Ring Diameter | | | |
|---|---|---|---|---|---|
| | | Min. ID | | Max. OD | |
| | | In. | mm. | In. | mm. |
| 50 | .410 | .420 | 10.67 | .580 | 14.73 |
| 52 | .470 | .480 | 12.19 | .640 | 16.26 |
| 54 | .625 | .635 | 16.13 | .796 | 20.22 |
| 56 | .735 | .745 | 18.92 | .905 | 22.99 |
| 58 | .875 | .885 | 22.48 | 1.046 | 26.57 |
| 60 | 1.000 | 1.010 | 25.65 | 1.171 | 29.74 |
| 64 | 1.115 | 1.125 | 28.58 | 1.285 | 32.64 |
| 68 | 1.335 | 1.345 | 34.16 | 1.505 | 38.23 |



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# Series 804 Push-Pull Mighty Mouse Protective Plug and Receptacle Cover Dimensions

## 809-198 and 667-202

***809-198 Plug Cover***

***667-202 Receptacle Cover***

| Shell Size | Ø A Max. | | Ø B Max. | | Ø C Max. | |
|---|---|---|---|---|---|---|
| | In | mm | In | mm | In | mm |
| **5** | .496 | 12.60 | .740 | 18.80 | .490 | 12.45 |
| **6** | .540 | 13.72 | .740 | 18.80 | .490 | 12.45 |
| **7** | .645 | 16.38 | .820 | 20.83 | .570 | 14.48 |
| **8** | .665 | 16.89 | .870 | 22.10 | .619 | 15.72 |
| **9** | .720 | 18.29 | .920 | 23.37 | .670 | 17.02 |
| **10** | .790 | 20.07 | 1.030 | 26.16 | .783 | 19.89 |
| **12** | .915 | 23.24 | 1.110 | 28.19 | .860 | 21.84 |
| **14** | 1.040 | 26.42 | 1.230 | 31.24 | .980 | 24.89 |

| MATERIALS AND FINISHES | |
|---|---|
| Cover | Aluminum alloy or stainless steel |
| O-ring | Fluorosilicone rubber |
| Wire,Hardware | Stainless steel, passivated |

| LANYARD OPTIONS | |
|---|---|
| **Nylon Rope** | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter |
| **Polyurethane Coated Wire Rope** | Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter |
| **Teflon® Jacketed Wire Rope** | Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter |
| **Sash Chain** | Stainless steel, #8 chain, .240" (6mm) |
| **Slip Knot (SK)** for Attaching Covers to Cable | 55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop. |

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# Series 804 Push-Pull Mighty Mouse Rubber Covers

## 809-083 and 809-087

*809-083 Plug Cover*

*809-087 Receptacle Cover*

These ***splashproof molded rubber covers*** fit all Series 804 plugs and receptacles. Braided black nylon lanyard is available with metal rings, cable tie or slipknot for attachment to panel or to cable.

## HOW TO ORDER

**Sample Part Number**

| 809-083 | - 05 | G | 6 | - SK | C |
|---|---|---|---|---|---|
| **Series** | **Shell Size** | **Lanyard Type** | **Lanyard Length** | **Attachment Code** | **Conductive Rubber** |
| **809-083** Protective Cover for use with Series 804 Plugs | **-05** **-06** **-07** **-08** **-09** **-10** **-12** **-14** | **-G** Nylon Rope (Omit for no lanyard) | Length in Inches | **-WS** Nylon Cable Tie, 1.77 Inch (45mm) Maximum Wire Bundle Diameter | Omit for Standard Neoprene |
| | | | | **-SK** Slip Knot | **C** Conductive Rubber |
| | | | | **-00** Lanyard With No Attachment (Fused End) | |
| **809-087** Protective Cover for use with Series 804 Receptacles | | | | **Lug Terminals and Rings** | |
| | | | | Lug Terminal: **-01** – .126 (3.20) I.D.<br>**-02** – .145 (3.68) I.D.<br>**-05** – .188 (4.78) I.D.<br>**-06** – .197 (5.00) I.D. | |
| | | | | Solid Ring: **-07** – .385 (9.78) I.D.<br>**-08** – .510 (13.11) I.D.<br>**-09** – .583 (14.81) I.D.<br>**-10** – .766 (19.4) I.D.<br>**-11** – .896 (25.76) I.D.<br>**-12** – 1.015 (25.78) I.D.<br>**-15** – .445 (11.30) I.D.<br>**-16** – .570 (14.48) I.D.<br>**-17** – .635 (16.13) I.D.<br>**-18** – .695 (17.65) I.D.<br>**-19** – .885 (22.48) I.D.<br>**-20** – 1.070 (27.18) I.D.<br>**-21** – 1.135 (28.83) I.D.<br>**-25** – .820 (20.8) I.D. | |

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# Series 804 Push-Pull Mighty Mouse Rubber Covers

## 809-083 and 809-087

## Attaching a 809-087 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Conn. Thread Ref | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. |
| 08 | 5 | .5000-32 | .510 | 13.0 | .620 | 15.7 |
| 16 | 6 | .5625-28 | .570 | 14.5 | .690 | 17.5 |
| 18 | 7, 8 | .6875-28 | .695 | 17.7 | .820 | 20.8 |
| 10 | 9 | .7500-28 | .766 | 19.4 | .890 | 22.6 |
| 25 | 10 | .8125-28 | .820 | 20.8 | .940 | 23.9 |
| 12 | 12 | 1.000-28 | 1.015 | 25.8 | 1.200 | 30.5 |
| 20 | 14 | 1.062-20 | 1.070 | 27.2 | 1.200 | 30.5 |
| 21 | 15 | 1.125-28 | 1.135 | 28.8 | 1.250 | 31.8 |

## Attaching a 809-087 Receptacle Cover to a Front Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Conn. Thread Ref | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. |
| | | | ± .010 | ±0.25 | ± .015 | ± 0.38 |
| 15 | 5 | .4375-32 | .445 | 11.3 | .570 | 14.5 |
| 08 | 6 | .5000-32 | .510 | 13.0 | .620 | 15.7 |
| 17 | 7, 8 | .6250-28 | .635 | 16.1 | .760 | 19.3 |
| 18 | 9 | .6875-28 | .695 | 17.7 | .820 | 20.8 |
| 10 | 10 | .7500-28 | .766 | 19.4 | .890 | 22.6 |
| 19 | 12 | .8750-28 | .885 | 22.5 | 1.010 | 25.7 |
| 12 | 14 | 1.000-28 | 1.015 | 25.8 | 1.200 | 30.5 |

## Attaching a 809-087 Receptacle Cover to a Panel With a Lug Terminal

Lug Terminal for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Shell Size | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. |
| | | ±.005 | ±0.13 | Max. | Max. |
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 05 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

## Attaching a Cover to a Cable Assembly With a Solid Ring

Solid Ring

| Dia. Code | Shell Size | Ring I.D. | | Ring O.D. | |
|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. |
| | | ± .010 | ±0.25 | ± .015 | ± 0.38 |
| 07 | 5,6 | .385 | 9.78 | .510 | 12.95 |
| 15 | 7 | .445 | 11.30 | .565 | 14.35 |
| 16 | 8, 9 | .570 | 14.48 | .685 | 17.40 |
| 18 | 10, 12 | .695 | 17.65 | .820 | 20.82 |
| 20 | 14 | 1.070 | 27.17 | 1.195 | 30.35 |

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# Series 804 Push-Pull Mighty Mouse Rubber Covers

## 809-083 and 809-087

### Attaching a Cover to a Cable Assembly With Type SK Slip Knot

### Attaching a Cover to a Cable Assembly With Type WS Cable Tie

| Shell Size | Ø A | | Ø B | | Ø C | | Ø D | |
|---|---|---|---|---|---|---|---|---|
| | In | mm | In | mm | In | mm | In | mm |
| 5 | .23 | 5.8 | .56 | 14.2 | .27 | 6.9 | .59 | 15.0 |
| 6 | .29 | 7.4 | .56 | 14.2 | .33 | 8.4 | .65 | 16.5 |
| 7 | .36 | 9.1 | .56 | 14.2 | .40 | 10.2 | .78 | 19.8 |
| 8 | .41 | 10.4 | .68 | 17.3 | .44 | 11.2 | .78 | 19.8 |
| 9 | .46 | 11.7 | .68 | 17.3 | .50 | 12.7 | .84 | 21.3 |
| 10 | .54 | 13.7 | .79 | 20.1 | .57 | 14.5 | .90 | 22.9 |
| 12 | .55 | 14.0 | .79 | 20.1 | .69 | 17.5 | 1.03 | 26.2 |
| 14 | .78 | 19.8 | 1.11 | 28.2 | .82 | 20.8 | 1.15 | 29.2 |

| MATERIALS | |
|---|---|
| Cover | Neoprene rubber blend, black |
| Lanyard | .062" (1.57) diameter nylon cord, black |
| Cable Tie | 6/6 nylon, black, SST locking tab |
| Ring | Stainless steel, black zinc-cobalt finish |

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## Spring-Loaded Cover for Series 804 Jam Nut Receptacles

"Flop lid" snaps shut when cable is disconnected. Silicone gasket provides watertight seal when closed. Fits standard Series 804 jam nut receptacles. For .057/.067 inch (1.45/1.70mm) panel thickness. Aluminum alloy or stainless steel.

| Shell Size | Part Number | | | | |
|---|---|---|---|---|---|
| | Aluminum | | | | Stainless Steel |
| | Electroless Nickel | Cadmium/ Olive Drab | Nickel-PTFE | Black Zinc-Nickel | Passivated |
| 5 | 667-282M05 | 667-282NF05 | 667-282MT05 | 667-282ZNU05 | 667-282Z105 |
| 6 | 667-282M06 | 667-282NF06 | 667-282MT06 | 667-282ZNU06 | 667-282Z106 |
| 7 | 667-282M07 | 667-282NF07 | 667-282MT07 | 667-282ZNU07 | 667-282Z107 |
| 8 | 667-282M08 | 667-282NF08 | 667-282MT08 | 667-282ZNU08 | 667-282Z108 |
| 9 | 667-282M08 | 667-282NF09 | 667-282MT09 | 667-282ZNU09 | 667-282Z109 |
| 10 | 667-282M10 | 667-282NF10 | 667-282MT10 | 667-282ZNU10 | 667-282Z110 |
| 12 | 667-282M12 | 667-282NF12 | 667-282MT12 | 667-282ZNU12 | 667-282Z112 |
| 14 | 667-282M14 | 667-282NF14 | 667-282MT14 | 667-282ZNU14 | 667-282Z114 |

| Shell Size | Dimensions | | | |
|---|---|---|---|---|
| | A | | B | |
| | In. | mm. | In. | mm. |
| 5 | .63 | 16.0 | .93 | 23.6 |
| 6 | .69 | 17.5 | .99 | 25.1 |
| 7 | .82 | 20.8 | 1.11 | 28.2 |
| 8 | .82 | 20.8 | 1.11 | 28.2 |
| 9 | .88 | 22.4 | 1.18 | 30.0 |
| 10 | .94 | 23.9 | 1.24 | 31.5 |
| 12 | 1.07 | 27.2 | 1.36 | 34.5 |
| 14 | 1.19 | 30.2 | 1.49 | 37.8 |

| Materials | |
|---|---|
| Cover, Housing | Aluminum Alloy or Stainless Steel |
| Gasket | Sponge Silicone Rubber |
| Sleeve | Delrin |
| Spring, Shaft | Stainless Steel |

Dimensions in inches (millimeters) and are subject to change without notice.

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SERIES 805

# MIGHTY MOUSE TRIPLE-START COUPLING

## BONAFIDE D38999 WORKALIKE AT HALF THE SIZE AND WEIGHT

The Series 805 Mighty Mouse Connector brings true D38999 type packaging and performance to miniaturized interconnection systems. The triple-start coupling mechanism, with its self-locking coupling nut, is as close as you can get to true D38999 connector performance—without adding all the size and weight. And only Mighty Mouse offers the range of layouts, connector classes, terminations, and backshell accessories you expect in a mature connector product line—again, just like D38999 (but this time without the spare tire).

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## SECTION C SERIES 805 TRIPLE-START PRODUCT SELECTION GUIDE

***Plugs***
**Page H-6**
**805-001, 805-002**

### Series 805 Plugs
These connectors are supplied with a full complement of contacts for termination to insulated wire. The integral shield termination platform accepts ***BAND-IT®*** stainless steel bands (ordered separately), or select connectors with accessory threads for use with a variety of strain relief options. Contacts are crimp-type, and are packaged with the connector.

***Crimp Receptacles***
**Page H-8**
**805-003, 805-004**

### Series 805 Receptacles for Insulated Wire
Jam nut for rear panel mounting, square flange and in-line versions make it easy to find a style for every application. The integral shield termination platform accepts ***BAND-IT®*** stainless steel bands (ordered separately), or select connectors with accessory threads for use with a variety of strain relief options. Contacts are crimp-type, and are packaged with the connector.

***Solder Cup/PCB Receptacles***
**Page H-12**
**805-005, 805-017, 805-067**

### Series 805 Receptacles With Solder Cup or PCB Termination
These panel mount connectors feature gold plated, factory-installed non-removeable contacts. Choose printed circuit terminals for attachment to flex circuits or rigid boards, or choose solder cup contacts. Connectors are potted with epoxy for general purpose applications, or choose silicone-sealed, leak-tested versions for 1 meter water immersion.

***Hermetic Receptacles***
**Page H-17**
**805-006**

### Series 805 Hermetic Receptacles
Need a hermetic for a sealed box or instrument? These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. Choose jam nut, square flange or solder mount versions. Contacts are gold plated iron alloy. 100% tested to meet 1 X $10^{-6}$ cc/sec helium leakage. Open face pressure rating 1000 PSI.

***Feedthrough***
**Page H-21**
**805-066**

### Series 805 Bulkhead Feedthrough Receptacle Connector
Jam Nut mount, shell sizes 5 to 15. This connector mates with all triple-start threaded high densisty plug connectors with the same polarization and opposite contact genders (805-001 and 805-002). Copper alloy gold-plated contacts, pins to pin, pin to plug or plug to plug.

***Sav-Con®***
**Page H-23**
**805-010**

### Series 805 Sav-Con® Connector Savers
Protect expensive test equipment and cables with Glenair Sav-Con® connector savers. These plug/receptacle adapters feature non-removable contacts and a ratcheting coupling mechanism to prevent loosening under vibration.

***Cordsets***
**Page H-25**
**800-034, 800-041, 800-038, 800-039**

### Series 805 Cordsets
Specify overmolded cordsets for optimum convenience and performance. Polyurethane jackets provide excellent all-weather cable protection. Fully shielded, with watertight overmolding.

***Protective Covers***
**Page H-29**
**667-261, 667-262**

### Series 805 Protective Covers
Thread-on metal covers provide a watertight seal and prevent damage. Select nylon cord or wire rope lanyards with a range of ring terminal diameters to fit just about any need.

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse
# Triple-Start Threaded Coupling
## Contact Arrangements

### CONTACT ARRANGEMENTS

| Contact Arr. | No. of Contacts #23 | #20 | #20HD | #16 | #12 |
|---|---|---|---|---|---|
| 8-1 | | | | 1 | |
| 8-23 | | | 3 | | |
| 8-4 | 4 | | | | |
| 8-6 | 6 | | | | |
| 8-7 | 7 | | | | |
| 9-1 | | | | | 1 |
| 9-25 | | | 5 | | |
| 9-10 | 10 | | | | |
| 10-2 | | | | 2 | |
| 10-28 | | | 8 | | |
| 10-13 | 13 | | | | |
| 10-200 | 4 | 2 | | | |
| 11-4 | | | | 4 | |
| 11-210 | | | 10 | | |
| 11-19 | 19 | | | | |
| 11-200 | 4 | | | 2 | |
| 11-201 | 8 | 2 | | | |
| 12-2 | | | | | 2 |
| 12-5 | | | | 5 | |
| 12-26 | 26 | | | | |
| 12-200 | 12 | | | | 1 |
| 12-201 | 4 | | | | 2 |
| 12-202 | 8 | | | 2 | |
| 15-2 | | | | | 2 |
| 15-3 | | | | | 3 |
| 15-7 | | | | 7 | |
| 15-220 | | | 20 | | |
| 15-37 | 37 | | | | |
| 15-200 | 6 | | | | 2 |
| 15-201 | 10 | | | | 2 |
| 18-5 | | | | | 5 |
| 18-12 | | | | 12 | |
| 18-235 | | | 35 | | |
| 18-55 | 55 | | | | |
| 19-7 | | | | | 7 |
| 19-14 | | | | 14 | |
| 19-241 | | | 41 | | |
| 19-85 | 85 | | | | |
| 23-12 | | | | | 12 |
| 23-22 | | | | 22 | |
| 23-269 | | | 69 | | |
| 23-130 | 130 | | | | |

**Mating Face View of Pin Connector**
**(socket connector numbers are reversed)**

Contact Legend
#23 ◦ #20HD ◓ #20 ● #16 ◒ #12 ⊕

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# Series 805 Mighty Mouse
# Triple-Start Threaded Coupling
## General Information

***Outstanding EMI Shielding***
Nickel-plated beryllium copper ground spring and metal-to-metal bottoming for excellent EMI performance.

***Triple-Start Coupling***
Rugged ACME threads resist cross-threading and allow fast mating.

***Environmentally Sealed***
Meets MIL-STD-810 Method 512 immersion.

***Ratchet Mechanism***
Ratcheting anti-decoupling mechanism prevents coupling nut backoff when subjected to vibration.

# Glenair's Series 805 Connector Offers Outstanding EMI Protection and Vibration Resistance in a Miniaturized Package

The Series 805 connector was developed to provide several performance enhancements compared to other "Mighty Mouse" versions. A ratchet mechanism in the coupling nut prevents de-mating under severe vibration. EMI performance is improved with a serpentine ground spring on the plug barrel. This nickel plated beryllium copper spring assures low shell-to-shell resistance. The Series 805, although larger than other Series 80 versions, saves size and weight compared to MIL-DTL-38999 connectors with no compromise in performance.

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 AMPS, #20HD 7.5 A., #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #20HD 750 VAC #12 and #16 1800 VAC |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -65° C. to +175° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 65 dB minimum from 1GHz to 10GHz. |
| Magnetic Permeability | 2.0 µ maximum |
| Durability | 2000 mating cycles |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Contact Retention Clip | Beryllium copper alloy |
| Seal, O-rings, Grommet | Fluorosilicone rubber |
| Spring | Nickel-plated beryllium copper |
| See Series 80 General Information for complete material and finish specs. | |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse Triple-Start
## Connector Weight and Size Comparison, Key Positions

### SIZE COMPARISON: SERIES 805 VERSUS D38999 SERIES III

| Layout | Number of Contacts | D38999 Layout | Number of Contacts | Maximum Plug Diameter | | | | | Maximum Jam Nut Receptacle Diameter | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Series 805 | | D38999 | | % Reduction | Series 805 | | D38999 | | % Reduction |
| | | | | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | |
| **8-7** | 7 #23 | 9-35 | 6 #20 | .707 | 17.96 | .859 | 21.81 | **17%** | .775 | 19.69 | 1.201 | 30.51 | **35%** |
| **10-13** | 13 #23 | 11-35 | 13 #22D | .804 | 20.42 | .969 | 24.61 | **18%** | .895 | 22.73 | 1.386 | 30.50 | **35%** |
| **11-19** | 19 #23 | 13-35 | 19 #22D | .933 | 23.70 | 1.141 | 28.98 | **20%** | .960 | 24.38 | 1.512 | 38.40 | **36%** |
| **12-26** | 26 #23 | 17-26 | 26 #20 | .999 | 25.37 | 1.391 | 35.33 | **29%** | 1.075 | 27.31 | 1.764 | 44.81 | **39%** |
| **15-37** | 37 #23 | 15-35 | 37 #22D | 1.113 | 28.27 | 1.266 | 32.16 | **13%** | 1.218 | 30.86 | 1.638 | 41.61 | **26%** |
| **18-55** | 55 #23 | 17-35 | 55 #22D | 1.308 | 33.22 | 1.391 | 35.33 | **7%** | 1.404 | 35.66 | 1.764 | 44.81 | **20%** |
| **19-85** | 85 #23 | 21-35 | 85 #22D | 1.328 | 33.73 | 1.625 | 41.27 | **19%** | 1.465 | 37.21 | 2.075 | 52.71 | **29%** |
| **23-130** | 130 #23 | 25-35 | 128 #22D | 1.577 | 40.06 | 1.875 | 47.63 | **16%** | 1.720 | 43.69 | 2.323 | 59.00 | **26%** |

### PANEL CUTOUT FOR JAM NUT RECEPTACLE

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| **8** | .543 | 13.79 | .572 | 14.53 |
| **9** | .669 | 16.99 | .698 | 17.73 |
| **10** | .669 | 16.99 | .698 | 17.73 |
| **11** | .729 | 18.51 | .760 | 19.30 |
| **12** | .792 | 20.17 | .822 | 20.88 |
| **15** | .978 | 24.84 | 1.010 | 25.65 |
| **18** | 1.155 | 29.34 | 1.198 | 30.43 |
| **19** | 1.229 | 31.22 | 1.260 | 32.00 |
| **23** | 1.480 | 37.59 | 1.510 | 38.35 |

### SERIES 805 KEY POSITIONS

**PLUG**

**RECEPTACLE**

| Key Position | Key Rotation | |
|---|---|---|
| | A | B |
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse Triple-Start
## Connector Weights

Glenair®

### SERIES 805 CONNECTOR WEIGHT IN GRAMS

| Contact Arr. | Cable Plug | J/N Recep Crimp | J/N Recep PCB | Sq. Flange Recep Crimp | Sq. Flange Recep PCB |
|---|---|---|---|---|---|
| **8-1P** | 7.5 | 5.8 | 5.7 | 5.8 | 4.6 |
| **8-1S** | 7.9 | 6.3 | 6.2 | 6.3 | 5.1 |
| **8-4P** | 8.3 | 6.6 | 6.5 | 6.6 | 5.4 |
| **8-4S** | 8.8 | 7.2 | 7.0 | 7.2 | 5.9 |
| **8-7P** | 7.3 | 5.6 | 5.5 | 5.6 | 4.4 |
| **8-7S** | 7.7 | 6.1 | 5.9 | 6.1 | 4.8 |
| **9-1P** | 10.9 | 9.0 | 9.0 | 6.8 | 7.7 |
| **9-1S** | 11.4 | 9.6 | 9.6 | 7.4 | 8.3 |
| **9-10P** | 10.7 | 8.8 | 8.8 | 6.6 | 7.5 |
| **9-10S** | 11.6 | 9.7 | 9.7 | 7.5 | 8.4 |
| **10-2P** | 13.3 | 10.2 | 10.3 | 8.9 | 9.4 |
| **10-2S** | 14.1 | 11.0 | 11.1 | 9.7 | 10.1 |
| **10-13P** | 12.7 | 9.6 | 9.7 | 8.3 | 8.7 |
| **10-13S** | 13.4 | 10.3 | 10.5 | 9.0 | 9.5 |
| **10-200P** | 13.9 | 10.8 | 10.9 | 9.5 | 9.9 |
| **10-200S** | 14.7 | 11.7 | 11.8 | 10.3 | 10.8 |
| **11-4P** | 15.4 | 12.1 | 13.1 | 10.3 | 11.3 |
| **11-4S** | 16.4 | 13.1 | 14.1 | 11.3 | 12.3 |
| **11-19P** | 14.3 | 11.0 | 12.0 | 9.2 | 10.2 |
| **11-19S** | 15.4 | 12.1 | 13.1 | 10.3 | 11.3 |
| **11-200P** | 14.9 | 11.6 | 12.5 | 9.8 | 10.8 |
| **11-200S** | 16.0 | 12.7 | 13.6 | 10.9 | 11.9 |
| **11-201P** | 15.4 | 12.1 | 13.1 | 10.3 | 11.3 |
| **11-201S** | 16.6 | 13.3 | 14.3 | 11.6 | 12.5 |
| **12-5P** | 17.6 | 13.9 | 16.3 | 12.2 | 13.1 |
| **12-5S** | 19.0 | 15.3 | 17.7 | 13.6 | 14.5 |
| **12-26P** | 15.8 | 12.1 | 14.5 | 10.5 | 11.3 |
| **12-26S** | 17.4 | 13.6 | 16.1 | 12.0 | 12.9 |
| **12-200P** | 16.5 | 12.8 | 15.2 | 11.1 | 12.0 |
| **12-200S** | 17.9 | 14.2 | 16.6 | 12.5 | 13.4 |
| **12-201P** | 16.6 | 12.9 | 15.3 | 11.2 | 12.1 |
| **12-201S** | 18.0 | 14.3 | 16.7 | 12.7 | 13.5 |

| Contact Arr. | Cable Plug | J/N Recep Crimp | J/N Recep PCB | Sq. Flange Recep Crimp | Sq. Flange Recep PCB |
|---|---|---|---|---|---|
| **12-202P** | 16.6 | 12.9 | 15.3 | 11.2 | 12.1 |
| **12-202S** | 18.2 | 14.4 | 16.8 | 12.8 | 13.6 |
| **15-2P** | 20.7 | 20.2 | 21.8 | 17.1 | 19.5 |
| **15-2S** | 22.3 | 21.9 | 23.4 | 18.7 | 21.1 |
| **15-3P** | 21.7 | 21.2 | 22.8 | 18.0 | 20.5 |
| **15-3S** | 23.4 | 23.0 | 24.5 | 19.8 | 22.2 |
| **15-7P** | 21.9 | 21.5 | 23.0 | 18.3 | 20.7 |
| **15-7S** | 24.5 | 24.1 | 25.6 | 20.9 | 23.3 |
| **15-37P** | 20.1 | 19.7 | 21.2 | 16.5 | 18.9 |
| **15-37S** | 23.0 | 22.6 | 24.1 | 19.4 | 21.8 |
| **15-200P** | 20.4 | 19.9 | 21.5 | 16.7 | 19.1 |
| **15-200S** | 22.6 | 22.1 | 23.7 | 18.9 | 21.3 |
| **15-201P** | 20.7 | 20.2 | 21.8 | 17.1 | 19.5 |
| **15-201S** | 23.0 | 22.6 | 24.1 | 19.4 | 21.8 |
| **18-5P** | 29.9 | 31.6 | 30.1 | 26.1 | 29.0 |
| **18-5S** | 32.9 | 34.5 | 33.1 | 29.0 | 32.0 |
| **18-12P** | 30.7 | 32.3 | 30.9 | 26.8 | 29.8 |
| **18-12S** | 34.3 | 36.0 | 34.5 | 30.5 | 33.4 |
| **18-55P** | 27.3 | 28.9 | 27.5 | 23.4 | 26.4 |
| **18-55S** | 30.7 | 32.3 | 30.9 | 26.8 | 29.8 |
| **19-7P** | 27.9 | 30.0 | 33.1 | 25.1 | 33.0 |
| **19-7S** | 31.0 | 33.1 | 36.2 | 28.2 | 36.1 |
| **19-14P** | 32.9 | 35.0 | 38.1 | 30.0 | 38.0 |
| **19-14S** | 32.6 | 34.7 | 37.7 | 29.7 | 37.6 |
| **19-85P** | 26.6 | 28.7 | 31.8 | 23.8 | 31.7 |
| **19-85S** | 31.1 | 33.2 | 36.3 | 28.3 | 36.2 |
| **23-12P** | 40.2 | 42.9 | 44.4 | 36.7 | 43.9 |
| **23-12S** | 45.2 | 48.0 | 49.5 | 41.8 | 49.0 |
| **23-22P** | 42.7 | 45.4 | 47.0 | 39.3 | 46.4 |
| **23-22S** | 49.6 | 52.4 | 53.9 | 46.2 | 53.4 |
| **23-130P** | 37.8 | 40.6 | 42.1 | 34.4 | 41.6 |
| **23-130S** | 44.9 | 47.7 | 49.3 | 41.6 | 48.7 |

Maximum connector weight in grams.



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse Triple-Start Plug Connector Ordering Information

## 805-001 and 805-002

***Two Shell Styles:*** Integral platform for direct shield attachment using BAND-IT® termination system, or accessory thread for attaching a strain relief.

***EMI Ground Spring*** provides low shell-to-shell resistance. This nickel-plated beryllium copper spring enables the Series 805 to meet greater than 60 dB shielding effectiveness from 100 MHz to 15 GHz.

***Ratchet Mechanism for Secure Coupling:*** Series 805 connectors feature a spring mechanism in the coupling nut that locks into radial teeth on the plug barrel. This feature allows the Series 805 to stay mated even when under high vibration, without the need for safety wire or torque tools.

### HOW TO ORDER

**Sample Part Number**

| 805-002 | -16 | M | 8-4 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**805-001**<br>Plug with Banding Platform<br> <br>**805-002**<br>Plug with Accessory Thread | **-16**<br>Plug Connector with Ratcheting Anti-Decoupling Mechanism | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE H-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D |

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# Series 805 Mighty Mouse Triple-Start Plug Connector Dimensions

## 805-001-16 and 805-002-16

## DIMENSIONS

| Shell Size | A Threads | Ø B In. | Ø B mm. | Ø C In. | Ø C mm. | D Threads Accessory |
|---|---|---|---|---|---|---|
| 8 | .5000-.1P-.3L-TS-2B | .317 | 8.05 | .691 | 17.55 | .3750-32 UNEF-2A |
| 9 | .5625-.1P-.3L-TS-2B | .397 | 10.08 | .787 | 19.99 | .4375-28 UNEF-2A |
| 10 | .6250-.1P-.3L-TS-2B | .473 | 12.01 | .826 | 20.98 | .5000-28 UNEF-2A |
| 11 | .6875-.1P-.3L-TS-2B | .519 | 13.18 | .916 | 23.27 | .5625-24 UNEF-2A |
| 12 | .7500-.1P-.3L-TS-2B | .585 | 14.86 | .982 | 24.94 | .6250-24 UNEF-2A |
| 15 | .9375-.1P-.3L-TS-2B | .687 | 17.45 | 1.097 | 27.86 | .7500-20 UNEF-2A |
| 18 | 1.1250-.1P-.3L-TS-2B | .884 | 22.45 | 1.290 | 32.77 | .9375-20 UNEF-2A |
| 19 | 1.1875-.1P-.3L-TS-2B | .884 | 22.45 | 1.310 | 33.27 | .9375-20 UNEF-2A |
| 23 | 1.4375-.1P-.3L-TS-2B | 1.135 | 28.83 | 1.562 | 39.67 | 1.1875-18 UNEF-2A |

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| DWV | #23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC |
| Insulation Resistance | 5000 Megohms Minimum |
| Operating Temperature | -55° C. to +150° C. |
| Immersion, Mated | MIL-STD-810 Method 512. One Meter for One Hour. |
| EMI | 65 dB Minimum from 1 GHz. to 10 GHz. |

## MATERIALS AND FINISHES

| | |
|---|---|
| Connector Shell | Aluminum or Stainless Steel |
| Insulator | Liquid Crystal Polymer (LCP) |
| Seals | Fluorosilicone Rubber, Blue |
| Pin Contact | Copper Alloy, Gold over Nickel Plating |
| Socket Contact | Copper Alloy, Gold over Nickel Plating, with SST Hood |
| Contact Retainer Clip | Beryllium Copper, Unplated |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Mighty Mouse Triple-Start Crimp Receptacle Ordering Information

## 805-003 and 805-004

***Series 805 Triple-Start Jam Nut Connector***

***Three Shell Mounting Options***
Jam nut with O-ring for rear panel mounting, square flange for front or rear panel mounting, or in-line receptacles for free-hanging cables.

***Gold-Plated Crimp Contacts*** are held in place with beryllium copper retention clips. Contacts are removable.

***Two Shell Styles:*** Choose ***integral band platform*** for direct attachment of a cable shield. Install a boot, or overmold a boot over the band platform. An ***accessory thread*** is available for attaching strain reliefs and backshells.

## HOW TO ORDER

**Sample Part Number**

| 805-004 | -02 | NF | 9-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| <br>**805-003**<br>Receptacle with Banding Platform<br> <br>**805-004**<br>Receptacle with Accessory Thread | <br>**-01**<br>In-Line<br> <br>**-02**<br>Square Flange Front or Rear Mount<br>**-12**<br>Square Flange Rear Mount Non-Locking Clinch Nuts<br>**-22**<br>Square Flange Rear Mount Locking Clinch Nuts<br> <br>**-07**<br>Jam Nut for Rear Panel Mounting | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**Z1**<br>Stainless Steel / Passiv-ated RoHS Compliant<br>**ZB**<br>Stainless Steel / Olive Drab Chromate over Cadmium<br>**ZC**<br>Stainless Steel / Zinc Cobalt Alloy/Black Chromate | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE H-2 | ***Connector supplied with contacts***<br>**P**<br>Pin<br>**S**<br>Socket<br>***Connector supplied without contacts***<br>**A**<br>Pin Connector, less contacts<br>**B**<br>Socket Connector, less contacts<br>Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed.<br>Coaxial contacts and non-standard signal contacts are ordered separately. | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse Triple-Start In-Line Receptacle Dimensions

## 805-003-01 and 805-004-01

RECEPTACLE WITH INTEGRAL BAND PLATFORM 805-003-01

RECEPTACLE WITH ACCESSORY THREAD 805-004-01

*Grommet protrudes for power/combo arrangements

## DIMENSIONS

| Shell Size | Ø A In. | Ø A mm. | B In. | B mm. | C Threads | Ø D In. | Ø D mm. | E Threads Accessory |
|---|---|---|---|---|---|---|---|---|
| 8 | .540 | 13.72 | .510 | 12.95 | .5000-.1P-.3L-TS-2A | .316 | 8.05 | .3750-32 UNEF-2A |
| 9 | .605 | 15.37 | .575 | 14.61 | .5625-.1P-.3L-TS-2A | .397 | 10.08 | .4375-28 UNEF-2A |
| 10 | .668 | 16.96 | .638 | 16.21 | .6250-.1P-.3L-TS-2A | .472 | 12.01 | .5000-28 UNEF-2A |
| 11 | .730 | 18.54 | .700 | 17.78 | .6875-.1P-.3L-TS-2A | .519 | 13.18 | .5625-24 UNEF-2A |
| 12 | .793 | 20.14 | .763 | 19.38 | .7500-.1P-.3L-TS-2A | .585 | 14.86 | .6250-24 UNEF-2A |
| 15 | .980 | 24.89 | .950 | 24.13 | .9375-.1P-.3L-TS-2A | .687 | 17.45 | .7500-20 UNEF-2A |
| 18 | 1.165 | 29.59 | 1.135 | 28.83 | 1.1250-.1P-.3L-TS-2A | .884 | 22.45 | .9375-20 UNEF-2A |
| 19 | 1.235 | 31.37 | 1.205 | 30.61 | 1.1875-.1P-.3L-TS-2A | .884 | 22.45 | .9375-20 UNEF-2A |
| 23 | 1.485 | 37.72 | 1.455 | 36.96 | 1.4375-.1P-.3L-TS-2A | 1.134 | 28.80 | 1.1875-18 UNEF-2A |

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| DWV | #23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC |
| Insulation Resistance | 5000 Megohms Minimum |
| Operating Temperature | -55° C. to +150° C. |
| Immersion, Mated | MIL-STD-810 Method 512. One Meter for One Hour. |
| EMI | 65 dB Minimum from 1 GHz. to 10 GHz. |

## MATERIALS AND FINISHES

| | |
|---|---|
| Connector Shell | Aluminum or Stainless Steel |
| Insulator | Liquid Crystal Polymer (LCP) |
| Seals | Fluorosilicone Rubber, Blue |
| Pin Contact | Copper Alloy, Gold over Nickel Plating |
| Socket Contact | Copper Alloy, Gold over Nickel Plating, with SST Hood |
| Contact Retainer Clip | Beryllium Copper, Unplated |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse Triple-Start Square Flange Receptacle Dimensions

## 805-003-02 and 805-004-02

*Grommet protrudes for power/combo arrangements

RECEPTACLE WITH INTEGRAL BAND PLATFORM 805-003-02

RECEPTACLE WITH ACCESSORY THREAD 805-004-02

## DIMENSIONS

| Shell Size | A | | B | | ØC | | ØD | | E Threads | Ø F | | G Threads Accessory |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. ± .003 | mm. ± .08 | | In. | mm. | |
| **8** | .850 | 21.59 | .660 | 16.76 | 1.150 | 29.21 | .094 | 2.39 | .5000-.1P-.3L-TS-2A | .316 | 8.05 | .3750-32 UNEF-2A |
| **9** | .913 | 23.19 | .723 | 18.36 | 1.230 | 31.24 | .094 | 2.39 | .5625-.1P-.3L-TS-2A | .397 | 10.08 | .4375-28 UNEF-2A |
| **10** | .975 | 24.77 | .785 | 19.94 | 1.330 | 33.78 | .094 | 2.39 | .6250-.1P-.3L-TS-2A | .472 | 12.01 | .5000-28 UNEF-2A |
| **11** | 1.039 | 26.39 | .848 | 21.54 | 1.410 | 35.81 | .094 | 2.39 | .6875-.1P-.3L-TS-2A | .519 | 13.18 | .5625-24 UNEF-2A |
| **12** | 1.099 | 27.91 | .909 | 23.09 | 1.500 | 38.10 | .094 | 2.39 | .7500-.1P-.3L-TS-2A | .585 | 14.86 | .6250-24 UNEF-2A |
| **15** | 1.288 | 32.74 | 1.058 | 26.87 | 1.750 | 44.45 | .128 | 3.25 | .9375-.1P-.3L-TS-2A | .687 | 17.45 | .7500-20 UNEF-2A |
| **18** | 1.475 | 37.47 | 1.255 | 31.88 | 2.000 | 50.80 | .128 | 3.25 | 1.1250-.1P-.3L-TS-2A | .884 | 22.45 | .9375-20 UNEF-2A |
| **19** | 1.537 | 71.06 | 1.327 | 33.71 | 2.094 | 53.19 | .128 | 3.25 | 1.1875-.1P-.3L-TS-2A | .884 | 22.45 | .9375-20 UNEF-2A |
| **23** | 1.787 | 45.39 | 1.570 | 39.88 | 2.440 | 61.98 | .128 | 3.25 | 1.4375-.1P-.3L-TS-2A | 1.134 | 28.80 | 1.1875-18 UNEF-2A |

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| DWV | #23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC |
| Insulation Resistance | 5000 Megohms Minimum |
| Operating Temperature | -55° C. to +150° C. |
| Immersion, Mated | MIL-STD-810 Method 512. One Meter for One Hour. |
| EMI | 65 dB Minimum from 1 GHz. to 10 GHz. |

## MATERIALS AND FINISHES

| | |
|---|---|
| Connector Shell | Aluminum or Stainless Steel |
| Insulator | Liquid Crystal Polymer (LCP) |
| Seals | Fluorosilicone Rubber, Blue |
| Contact | Copper Alloy, Gold over Nickel Plating |
| Contact Retainer Clip | Beryllium Copper, Unplated |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Mighty Mouse Triple-Start Jam Nut Receptacle Dimensions

## 805-003-07 and 805-004-07

RECEPTACLE WITH INTEGRAL BAND PLATFORM 805-003-07

RECEPTACLE WITH ACCESSORY THREAD 805-004-07

## DIMENSIONS

| Shell Size | Ø A | | B | | C | | D Threads | Ø E | | F Threads | G Threads Accessory |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | | |
| 8 | .760 | 19.30 | .535 | 13.59 | .730 | 18.54 | .5000-.1P-.3L-TS-2A | .317 | 8.05 | .5625-28 UNEF-2A | .3750-32 UNEF-2A |
| 9 | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .5625-.1P-.3L-TS-2A | .397 | 10.08 | .6875-28 UN-2A | .4375-28 UNEF-2A |
| 10 | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .6250-.1P-.3L-TS-2A | .473 | 12.01 | .6875-28 UN-2A | .5000-28 UNEF-2A |
| 11 | .955 | 24.26 | .721 | 18.31 | .925 | 23.50 | .6875-.1P-.3L-TS-2A | .519 | 13.18 | .7500-28 UN-2A | .5625-24 UNEF-2A |
| 12 | 1.060 | 26.92 | .784 | 19.91 | 1.035 | 26.29 | .7500-.1P-.3L-TS-2A | .585 | 14.86 | .8125-28 UN-2A | .6250-24 UNEF-2A |
| 15 | 1.203 | 30.56 | .970 | 24.64 | 1.173 | 29.79 | .9375-.1P-.3L-TS-2A | .687 | 17.45 | 1.0000-28 UN-2A | .7500-20 UNEF-2A |
| 18 | 1.389 | 35.28 | 1.147 | 29.13 | 1.359 | 34.52 | 1.1250-.1P-.3L-TS-2A | .884 | 22.45 | 1.1875-28 UN-2A | .9375-20 UNEF-2A |
| 19 | 1.450 | 36.83 | 1.221 | 31.01 | 1.420 | 36.07 | 1.1875-.1P-.3L-TS-2A | .884 | 22.45 | 1.2500-28 UN-2A | .9375-20 UNEF-2A |
| 23 | 1.705 | 43.31 | 1.470 | 37.34 | 1.675 | 42.55 | 1.4375-.1P-.3L-TS-2A | 1.134 | 28.80 | 1.500-25 UN-2A | 1.1875-18 UNEF-2A |

## PANEL CUTOUT FOR JAM NUT RECEPTACLE

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .005 | mm. ± 0.13 |
| 8 | .543 | 13.79 | .572 | 14.53 |
| 9 | .669 | 16.99 | .698 | 17.73 |
| 10 | .669 | 16.99 | .698 | 17.73 |
| 11 | .729 | 18.51 | .760 | 19.30 |
| 12 | .792 | 20.17 | .822 | 20.88 |
| 15 | .978 | 24.84 | 1.010 | 25.65 |
| 18 | 1.155 | 29.34 | 1.198 | 30.43 |
| 19 | 1.231 | 31.27 | 1.260 | 32.00 |
| 23 | 1.480 | 37.59 | 1.510 | 38.35 |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation | |
|---|---|---|
| | A | B |
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Mighty Mouse Triple-Start PCB or Solder Cup Receptacle Ordering Information

## 805-005 and 805-017

***Series 805 Jam Nut PCB Receptacle Connector***

***Printed Circuit Board/ Solder Cup Receptacles*** feature low profile shells for minimum protrusion inside enclosures and integral standoffs for board washout. Contacts are non-removable.

***Water Immersion, Unmated***

Specify ***805-005*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***805-017*** watertight connectors . These 805-017 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x $10^{-4}$ cc/second at one atmosphere pressure differential from -40C to +70C.

**HOW TO ORDER**

**Sample Part Number**

| 805-005 | -07 | M | 10-13 | P | B |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **805-005**<br>Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting<br><br>**805-017**<br>Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. | <br>**-02**<br>Square Flange Front or Rear Mount<br><br>**-12**<br>Square Flange Rear Mount Non-Locking Clinch Nuts<br><br>**-22**<br>Square Flange Rear Mount Locking Clinch Nuts<br><br> <br>**-07**<br>Jam Nut Rear Mount | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant<br>**ZB**<br>Stainless Steel / Olive Drab Chromate over Cadmium<br>**ZC**<br>Stainless Steel / Zinc Cobalt Alloy/Black Chromate | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE H-2 | **P**<br>Pin, PC Tail<br><br>**S**<br>Socket, PC Tail<br><br>**E**<br>Pin, Solder Cup<br><br>**F**<br>Socket, Solder Cup | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D |

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# Series 805 Mighty Mouse Triple-Start PC Tail and Solder Cup Square Flange Receptacle

## 805-005-02, 805-017-02

SQUARE FLANGE WITH PC TAIL
OR SOLDER CUP CONTACTS
805-005-02
805-017-02

## DIMENSIONS

| Shell Size | A In. | A mm. | B In. | B mm. | Ø C In. | Ø C mm. | Ø D In. ± .003 | Ø D mm. ± .08 | E Threads | Ø F In. | Ø F mm. | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | .850 | 21.59 | .660 | 16.76 | 1.150 | 29.21 | .094 | 2.39 | .5000-.1P-.3L-TS-2A | .330 | 8.38 | **#23** .018/.022 (0.46/0.56) |
| 9 | .913 | 23.19 | .723 | 18.36 | 1.230 | 31.24 | .094 | 2.39 | .5625-.1P-.3L-TS-2A | .432 | 10.97 | |
| 10 | .975 | 24.77 | .785 | 19.94 | 1.330 | 33.78 | .094 | 2.39 | .6250-.1P-.3L-TS-2A | .493 | 12.52 | **#20** .024/.028 (0.61/0.71) |
| 11 | 1.039 | 26.39 | .848 | 21.54 | 1.410 | 35.81 | .094 | 2.39 | .6875-.1P-.3L-TS-2A | .551 | 14.00 | |
| 12 | 1.099 | 27.91 | .909 | 23.09 | 1.500 | 38.10 | .094 | 2.39 | .7500-.1P-.3L-TS-2A | .620 | 15.78 | |
| 15 | 1.288 | 32.74 | 1.058 | 26.87 | 1.750 | 44.45 | .128 | 3.25 | .9375-.1P-.3L-TS-2A | .703 | 17.86 | **#16** .060/.064 (1.52/1.63) |
| 18 | 1.475 | 37.47 | 1.255 | 31.88 | 2.000 | 50.80 | .128 | 3.25 | 1.1250-.1P-.3L-TS-2A | .863 | 21.92 | |
| 19 | 1.537 | 71.06 | 1.327 | 33.71 | 2.094 | 53.19 | .128 | 3.25 | 1.1875-.1P-.3L-TS-2A | .912 | 23.16 | **#12** .092/.096 (2.34/2.44) |
| 23 | 1.787 | 45.39 | 1.570 | 39.88 | 2.440 | 61.98 | .128 | 3.25 | 1.4375-.1P-.3L-TS-2A | 1.162 | 29.51 | |

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| DWV | #23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC |
| Insulation Resistance | 5000 Megohms Minimum |
| Operating Temperature | -55° C. to +150° C. |
| Immersion, Mated | MIL-STD-810 Method 512. One Meter for One Hour. |
| EMI | 65 dB Minimum from 1 GHz. to 10 GHz. |

## MATERIALS AND FINISHES

| | |
|---|---|
| Connector Shell | Aluminum or Stainless Steel |
| Insulator | Liquid Crystal Polymer (LCP) |
| Seals | Fluorosilicone Rubber, Blue |
| Contact | Copper Alloy, Gold over Nickel Plating |
| Contact Retainer Clip | Beryllium Copper, Unplated |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Mighty Mouse Triple-Start PC Tail and Solder Cup Jam Nut Receptacle

## 805-005-07, 805-017-07

## DIMENSIONS

| Shell Size | Ø A In. | Ø A mm. | B In. | B mm. | C In. | C mm. | D Threads | Ø E In. | Ø E mm. | F Threads | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | .760 | 19.30 | .535 | 13.59 | .730 | 18.54 | .5000-.1P-.3L-TS-2A | .330 | 8.38 | .5625-28 UNEF-2A | **#23** .018/.022 (0.46/0.56) |
| 9 | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .5625-.1P-.3L-TS-2A | .432 | 10.97 | .6875-28 UN-2A | |
| 10 | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .6250-.1P-.3L-TS-2A | .493 | 12.52 | .6875-28 UN-2A | |
| 11 | .955 | 24.26 | .721 | 18.31 | .925 | 23.50 | .6875-.1P-.3L-TS-2A | .551 | 14.00 | .7500-28 UN-2A | **#20** .024/.028 (0.61/0.71) |
| 12 | 1.060 | 26.92 | .784 | 19.91 | 1.035 | 26.29 | .7500-.1P-.3L-TS-2A | .620 | 15.78 | .8125-28 UN-2A | |
| 15 | 1.203 | 30.56 | .970 | 24.64 | 1.173 | 29.79 | .9375-.1P-.3L-TS-2A | .703 | 17.86 | 1.0000-28 UN-2A | **#16** .060/.064 (1.52/1.63) |
| 18 | 1.389 | 35.28 | 1.147 | 29.13 | 1.359 | 34.52 | 1.1250-.1P-.3L-TS-2A | .863 | 21.92 | 1.1875-28 UN-2A | |
| 19 | 1.450 | 36.83 | 1.221 | 31.01 | 1.420 | 36.07 | 1.1875-.1P-.3L-TS-2A | .912 | 23.16 | 1.2500-28 UN-2A | **#12** .092/.096 (2.34/2.44) |
| 23 | 1.705 | 43.31 | 1.470 | 37.34 | 1.675 | 42.55 | 1.4375-.1P-.3L-TS-2A | 1.162 | 29.51 | 1.500-25 UN-2A | |

## PANEL CUTOUT FOR JAM NUT RECEPTACLE

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| 8 | .543 | 13.79 | .572 | 14.53 |
| 9 | .669 | 16.99 | .698 | 17.73 |
| 10 | .669 | 16.99 | .698 | 17.73 |
| 11 | .729 | 18.51 | .760 | 19.30 |
| 12 | .792 | 20.17 | .822 | 20.88 |
| 15 | .978 | 24.84 | 1.010 | 25.65 |
| 18 | 1.155 | 29.34 | 1.198 | 30.43 |
| 19 | 1.229 | 31.22 | 1.260 | 32.00 |
| 23 | 1.480 | 37.59 | 1.510 | 38.35 |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Mighty Mouse Triple-Start
## Jam Nut Mount • Heli-Coil Inserts • Fixed Contacts
### PC Tail or Solder Cup • Shell Sizes 8-23 • Ordering Information
### 805-067-07

*Series 805 Jam Nut*

***This Series 805 Backpotted Receptacle*** features a choice of 304L stainless steel or aluminum alloy shells, fused vitreous glass insulators and gold plated copper alloy non-removable contacts.

***Popular Jam Nut Mount Style*** Mates with all triple start threaded high density plug connectors with the same polarization and opposite contact gender (805-001 and 805-002).

***Pin/PC Tail, Socket/PC Tail, Pin/Solder Cup*** or ***Socket/Solder Cup Contacts*** for attachment to flexible or rigid circuits or rigid boards.

## HOW TO ORDER

**Sample Part Number**

| 805-067 | -07 | Z1 | 7-10 | P | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size/Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **805-067**<br>Receptacle with Printed Circuit Board Contacts<br>or<br>Solder Cup Contacts | <br>**-07**<br>**Jam Nut** | **C**<br>Aluminum / Black Anodize (Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**Z1**<br>Stainless Steel / Passivated<br>RoHS Compliant<br>**ZB**<br>Stainless Steel / Olive Drab Chromate over Cadmium<br>**ZC**<br>Stainless Steel / Zinc Cobalt Alloy/Black Chromate | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE H-2 | **P**<br>Pin,<br>PC Tail<br>**S**<br>Socket,<br>PC Tail<br>**E**<br>Pin,<br>Solder Cup<br>**F**<br>Socket,<br>Solder Cup | **A**<br>Normal<br>**B**<br>Pos. B<br>**C**<br>Pos. C<br>**D**<br>Pos. D<br>**E**<br>Pos. E<br>**F**<br>Pos. F<br> <br> |

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

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# Series 805 Mighty Mouse Double-Start ACME Threads
## Jam Nut Mount • Heli-Coil Inserts
### Fixed Contacts • Shell Sizes 8-23
### 805-067-07

***Jam Nut***
801-075-07

## DIMENSIONS

| Shell Size | A Thread | B Thread | C Flat | | Ø D | | E SQ | | F BSC | | G Typ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 8 | .5000-.1P-.3L-TS | .5625-28 UNEF-2A | .535 | 13.59 | .920 | 23.37 | .729 | 18.52 | .496 | 12.60 | .276 | 7.01 |
| 9 | .5625-.1P-.3L-TS | .6875-28 UN-2A | .661 | 16.79 | 1.110 | 28.19 | .859 | 15.93 | .627 | 15.93 | .407 | 10.34 |
| 10 | .6250-.1P-.3L-TS | .6875-28 UN-2A | .661 | 16.79 | 1.110 | 28.19 | .859 | 15.93 | .627 | 15.93 | .407 | 10.34 |
| 11 | .6875-.1P-.3L-TS | .7500-28 UN-2A | .721 | 18.31 | 1.200 | 30.48 | .930 | 23.62 | .698 | 17.73 | .478 | 12.14 |
| 12 | .7500.1P-.3L-TS | .8125-28 UN-2A | .784 | 19.91 | 1.370 | 34.80 | 1.044 | 26.52 | .812 | 20.62 | .592 | 15.04 |
| 13 | .8125-.1P-.3L-TS | .8750-28 UN-2A | .843 | 21.41 | 1.420 | 36.07 | 1.085 | 27.56 | .853 | 21.67 | .633 | 16.08 |
| 15 | .9375.1P-.3L-TS | 1.0000-28 UN-2A | .970 | 24.64 | 1.560 | 39.62 | 1.175 | 29.85 | .943 | 23.95 | .723 | 18.36 |
| 18 | 1.1250.1P-.3L-TS | 1.1875-28 UN-2A | 1.147 | 29.13 | 1.800 | 45.72 | 1.351 | 34.32 | 1.119 | 28.42 | .899 | 22.83 |
| 19 | 1.1875-.1P-.3L-TS | 1.2500-28 UN-2A | 1.221 | 31.01 | 1.880 | 47.75 | 1.407 | 35.74 | 1.175 | 29.85 | .955 | 24.26 |
| 21 | 1.3125-.1P-.3L-TS | 1.3750-28 UN-2A | 1.350 | 34.29 | 2.090 | 53.09 | 1.550 | 39.37 | 1.318 | 33.48 | 1.098 | 27.89 |
| 23 | 1.4375-.1P-.3L-TS | 1.5000-28 UN-2A | 1.470 | 37.34 | 2.270 | 57.66 | 1.680 | 42.67 | 1.448 | 36.78 | 1.228 | 31.19 |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

## SERIES 801 JAM NUT PANEL CUTOUT

| Shell Size | H Flat | | Ø J | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 8 | .545/.541 | 13.84/13.74 | .573 | 14.55 |
| 9 | .671/.667 | 17.04/16.94 | .698 | 17.73 |
| 10 | .671/.667 | 17.04/16.94 | .698 | 17.73 |
| 11 | .731/.727 | 18.57/18.47 | .760 | 19.30 |
| 12 | .794/.790 | 20.17/20.07 | .823 | 20.90 |
| 13 | .853/.849 | 21.67/21.56 | .885 | 22.48 |
| 15 | .980/.976 | 24.89/24.79 | 1.010 | 25.65 |
| 18 | 1.157/1.153 | 29.39/29.29 | 1.198 | 30.43 |
| 19 | 1.231/1.227 | 31.27/31.17 | 1.260 | 32.00 |
| 21 | 1.360/1.357 | 34.54/34.47 | 1.385 | 35.18 |
| 23 | 1.480/1.476 | 37.59/37.49 | 1.510 | 38.35 |

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# Series 805 Mighty Mouse Triple-Start Hermetic Receptacle Ordering Information

## 805-006

***Series 805 Hermetic Jam Nut Connector***

***Series 805 Hermetic Receptacles*** feature 304L stainless steel shells, fused vitreous glass insulators and Alloy 52 iron alloy contacts. Triple-start ACME thread provides fast mating and cross-threading protection. Mating plug connectors feature EMI springs and ratcheting anti-decoupling mechanism for resistance to vibration. 1000 PSI open face pressure. Fluorosilicone seals for water ingress protection. Contacts are gold-plated 50 microinches minimum.

***1 X $10^{-7}$ cc/second*** maximum helium leak rate.

***Solder Cup Contacts*** or ***PC Tail Contacts*** for attachment to flexible or rigid circuits.

## HOW TO ORDER SERIES 805 HERMETIC RECEPTACLES

**Sample Part Number**

| 805-006 | -07 | Z1 | 12-26 | C | A |
|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **805-006**<br>Hermetic Receptacle | <br>**-02**<br>Square Flange<br> <br>**-03**<br>Solder Mount<br> <br>**-07**<br>Jam Nut | **Z1**<br>Stainless Steel / Passivated<br>**ZL**<br>Stainless Steel / Nickel Plated | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE H-2 | **P**<br>Pin, Solder Cup<br>**C**<br>Pin, PC Tail<br>**S**<br>Socket, Solder Cup<br>**D**<br>Socket, PC Tail | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D |

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# Series 805 Mighty Mouse Triple-Start Flange Mount Hermetic Receptacles

## 805-006-02 Connector Dimensions

## DIMENSIONS

| Shell Size | A In. | A mm. | B In. | B mm. | Ø C In. | Ø C mm. | Ø D In. ± .003 | Ø D mm. ± .08 | E Threads | Ø F In. | Ø F mm. | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | .850 | 21.59 | .660 | 16.76 | 1.150 | 29.21 | .094 | 2.39 | .5000-.1P-.3L-TS-2A | .330 | 8.38 | #23 .018/.022 (0.46/0.56) |
| 9 | .913 | 23.19 | .723 | 18.36 | 1.230 | 31.24 | .094 | 2.39 | .5625-.1P-.3L-TS-2A | .432 | 10.97 | |
| 10 | .975 | 24.77 | .785 | 19.94 | 1.330 | 33.78 | .094 | 2.39 | .6250-.1P-.3L-TS-2A | .493 | 12.52 | #20 .024/.028 (0.61/0.71) |
| 11 | 1.039 | 26.39 | .848 | 21.54 | 1.410 | 35.81 | .094 | 2.39 | .6875-.1P-.3L-TS-2A | .551 | 14.00 | |
| 12 | 1.099 | 27.91 | .909 | 23.09 | 1.500 | 38.10 | .094 | 2.39 | .7500-.1P-.3L-TS-2A | .620 | 15.78 | |
| 15 | 1.288 | 32.74 | 1.058 | 26.87 | 1.750 | 44.45 | .128 | 3.25 | .9375-.1P-.3L-TS-2A | .703 | 17.86 | #16 .060/.064 (1.52/1.63) |
| 18 | 1.475 | 37.47 | 1.255 | 31.88 | 2.000 | 50.80 | .128 | 3.25 | 1.1250-.1P-.3L-TS-2A | .863 | 21.92 | |
| 19 | 1.537 | 71.06 | 1.327 | 33.71 | 2.094 | 53.19 | .128 | 3.25 | 1.1875-.1P-.3L-TS-2A | .912 | 23.16 | #12 .092/.096 (2.34/2.44) |
| 23 | 1.787 | 45.39 | 1.570 | 39.88 | 2.440 | 61.98 | .128 | 3.25 | 1.4375-.1P-.3L-TS-2A | 1.162 | 29.51 | |

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| DWV (VAC Sea Level) | #23 500 V., #20HD 750 V., #12 AND #16 1800 V. |
| Insulation Resistance | 5000 Megohms Minimum |
| Operating Temperature | -55° C. to +150° C. |
| Immersion, Mated | MIL-STD-810 Method 512. One Meter for One Hour. |
| Hermeticity | 1 x 10-7 cc/sec Helium Leak Rate @ 1 Atmosphere Diff. |

## MATERIALS AND FINISHES

| | |
|---|---|
| Shell | 304L Stainless Steel |
| Insulator | Fused Vitreous Glass |
| Seals | Fluorosilicone Rubber, Blue |
| Contacts | Iron Alloy (Alloy 52) |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Mighty Mouse Triple-Start Solder Mount Hermetic Receptacles

## 805-006-03 Connector Dimensions

### DIMENSIONS

| Shell Size | Ø A In. | Ø A mm. | B Threads | Ø C In. | Ø C mm. | Ø D Tail Dia. |
|---|---|---|---|---|---|---|
| 8 | .625 | 15.88 | .5000-.1P-.3L-TS-2A | .330 | 8.38 | **#23** .018/.022 (0.46/0.56) |
| 9 | .688 | 17.48 | .5625-.1P-.3L-TS-2A | .432 | 10.97 | |
| 10 | .750 | 19.75 | .6250-.1P-.3L-TS-2A | .493 | 12.52 | |
| 11 | .812 | 20.62 | .6875-.1P-.3L-TS-2A | .551 | 14.00 | **#20** .024/.028 (0.61/0.71) |
| 12 | .875 | 22.23 | .7500-.1P-.3L-TS-2A | .620 | 15.78 | |
| 15 | 1.062 | 26.97 | .9375-.1P-.3L-TS-2A | .703 | 17.86 | **#16** .060/.064 (1.52/1.63) |
| 18 | 1.250 | 31.75 | 1.1250-.1P-.3L-TS-2A | .863 | 21.92 | |
| 19 | 1.312 | 33.32 | 1.1875-.1P-.3L-TS-2A | .912 | 23.16 | |
| 21 | 1.438 | 36.53 | 1.3125-.1P-.3L-TS-2A | 1.017 | 25.83 | **#12** .092/.096 (2.34/2.44) |
| 23 | 1.562 | 39.67 | 1.4375-.1P-.3L-TS-2A | 1.162 | 29.51 | |

### SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |



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# Series 805 Mighty Mouse Triple-Start Jam Nut Mount Hermetic Receptacles

## 805-006-07 Connector Dimensions

## DIMENSIONS

| Shell Size | Ø A | | B | | C | | D Threads | Ø E | | E Threads | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | | |
| **8** | .760 | 19.30 | .535 | 13.59 | .730 | 18.54 | .5000-.1P-.3L-TS-2A | .330 | 8.38 | .5625-28 UNEF-2A | **#23** .018/.022 (0.46/0.56) |
| **9** | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .5625-.1P-.3L-TS-2A | .432 | 10.97 | .6875-28 UN-2A | |
| **10** | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .6250-.1P-.3L-TS-2A | .493 | 12.52 | .6875-28 UN-2A | **#20** .024/.028 (0.61/0.71) |
| **11** | .955 | 24.26 | .721 | 18.31 | .925 | 23.50 | .6875-.1P-.3L-TS-2A | .551 | 14.00 | .7500-28 UN-2A | |
| **12** | 1.060 | 26.92 | .784 | 19.91 | 1.035 | 26.29 | .7500-.1P-.3L-TS-2A | .620 | 15.78 | .8125-28 UN-2A | |
| **15** | 1.203 | 30.56 | .970 | 24.64 | 1.173 | 29.79 | .9375-.1P-.3L-TS-2A | .703 | 17.86 | 1.0000-28 UN-2A | **#16** .060/.064 (1.52/1.63) |
| **18** | 1.389 | 35.28 | 1.147 | 29.13 | 1.359 | 34.52 | 1.1250-.1P-.3L-TS-2A | .863 | 21.92 | 1.1875-28 UN-2A | |
| **19** | 1.450 | 36.83 | 1.221 | 31.01 | 1.420 | 36.07 | 1.1875-.1P-.3L-TS-2A | .912 | 23.16 | 1.2500-28 UN-2A | **#12** |
| **23** | 1.705 | 43.31 | 1.470 | 37.34 | 1.675 | 42.55 | 1.4375-.1P-.3L-TS-2A | 1.162 | 29.51 | 1.500-25 UN-2A | .092/.096 (2.34/2.44) |

## PANEL CUTOUT FOR JAM NUT RECEPTACLE

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| **8** | .543 | 13.79 | .572 | 14.53 |
| **9** | .669 | 16.99 | .698 | 17.73 |
| **10** | .669 | 16.99 | .698 | 17.73 |
| **11** | .729 | 18.51 | .760 | 19.30 |
| **12** | .792 | 20.17 | .822 | 20.88 |
| **15** | .978 | 24.84 | 1.010 | 25.65 |
| **18** | 1.155 | 29.34 | 1.198 | 30.43 |
| **19** | 1.229 | 31.22 | 1.260 | 32.00 |
| **23** | 1.480 | 37.59 | 1.510 | 38.35 |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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# Series 805 Triple-Start Mighty Mouse Bulkhead Feedthrough Receptacle Connector

## 805-066-07 Jam Nut

*Series 805 Feedthrough*

This series 805 bulkhead feedthrough receptacle is available in shell sizes 8 to 23 and mates with all high densisty triple-start threaded connectors with the same polarization and opposite contact genders (805-001 and 805-002). Copper alloy gold-plated contacts, pins to pin, pin to socket or socket to socket. Your choice of standard aluminum alloy or stainless steel and seven standard finishes (see below). Please contact the factory for other materials and finishes. UN mating thread.

## HOW TO ORDER

**Sample Part Number**

| 805-066 | -07 | M | 6-7 | P | P | N |
|---|---|---|---|---|---|---|
| **Series** | **Shell Style** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** Jam Nut Side | **Contact Type** Other Side | **Shell Key Position** |
| **805-066** Feedthrough Receptacle Jam Nut Mount | **-07** Jam Nut | **C** Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M** Aluminum / Electroless Nickel RoHS Compliant<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZN** Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1** Stainless Steel / Passivated RoHS Compliant | SEE ***CONTACT ARRANGEMENTS*** PAGE H-2 | **P** Pin<br>**S** Socket | **P** Pin<br>**S** Socket | **A** Pos. A<br>**B** Pos. B<br>**C** Pos. C<br>**D** Pos. D<br>**E** Pos. E<br>**F** Pos. F |

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# Series 805 Triple-Start Mighty Mouse Bulkhead Feedthrough Receptacle Connector

## 805-066-07 Jam Nut

## DIMENSIONS

| Shell Size | A Thread | E Thread | Ø B | | C Flat | | D Flat | |
|---|---|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. | In. | mm. |
| 8 | .5000-.1P-.31L-TS | .5625-28 UNEF-2A | .760 | 19.30 | .730 | 18.54 | .535 | 13.59 |
| 9 | .5625-.1P-.31L-TS | .6875-28 UN-2A | .880 | 22.35 | .850 | 21.59 | .661 | 16.79 |
| 10 | .6250-.1P-.31L-TS | .6875-28 UN-2A | .880 | 22.35 | .850 | 21.59 | .661 | 16.79 |
| 11 | .6875-.1P-.31L-TS | .7500-28 UN-2A | .955 | 24.26 | .925 | 23.50 | .721 | 18.31 |
| 12 | .7500-.1P-.31L-TS | .8125-28 UN-2A | 1.060 | 26.92 | 1.035 | 26.29 | .784 | 19.91 |
| 13 | .8125-.1P-.31L-TS | .8750-28 UN-2A | 1.120 | 28.45 | 1.090 | 27.69 | .843 | 21.41 |
| 15 | .9375-.1P-.31L-TS | 1.0000-28 UN-2A | 1.203 | 30.56 | 1.173 | 29.79 | .970 | 24.64 |
| 18 | 1.1250-.1P-.31L-TS | 1.1875-28 UN-2A | 1.389 | 35.28 | 1.359 | 34.52 | 1.147 | 29.13 |
| 19 | 1.1875-.1P-.31L-TS | 1.2500-28 UN-2A | 1.450 | 36.83 | 1.420 | 36.07 | 1.221 | 31.01 |
| 21 | 1.3125-.1P-.31L-TS | 1.3750-28 UN-2A | 1.590 | 40.39 | 1.560 | 39.62 | 1.350 | 34.29 |
| 23 | 1.4375-.1P-.31L-TS | 1.5000-28 UN-2A | 1.705 | 43.31 | 1.675 | 42.55 | 1.470 | 37.34 |

## SERIES 800 PANEL CUTOUTS

| Shell Size | F Flat | | Ø G | |
|---|---|---|---|---|
| | In. | mm. | In. | mm. |
| 8 | .545/.541 | 13.84/13.74 | .573 | 14.55 |
| 9 | .671/.667 | 17.04/16.94 | .698 | 17.73 |
| 10 | .671/.667 | 17.04/16.94 | .698 | 17.73 |
| 11 | .731/.727 | 18.57/18.47 | .760 | 19.30 |
| 12 | .794/.790 | 20.17/20.07 | .823 | 20.90 |
| 13 | .853/.849 | 21.67/21.56 | .885 | 22.48 |
| 15 | .980/.976 | 24.89/24.79 | 1.010 | 25.65 |
| 18 | 1.157/1.153 | 29.39/29.29 | 1.198 | 30.43 |
| 19 | 1./231/1.227 | 31.27/31.17 | 1.260 | 32.00 |
| 21 | 1.360/1.356 | 34.54/34.44 | 1.385 | 35.18 |
| 23 | 1.480/1.476 | 37.59/37.49 | 1.510 | 38.35 |

## ALTERNATE KEY POSITIONS

| Key Position | Key Rotation | |
|---|---|---|
| | A | B |
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |
| E | 75° | 275° |
| F | 95° | 210° |

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# Series 805 Mighty Mouse Triple-Start Sav-Con® Connector Saver Ordering Information

## 805-010

*805-010 Sav-Con®*

***Glenair Sav-Con® Connector Savers*** are designed to protect connectors that are subject to repeated mating and unmating cycles. Sav-Con® Connector Savers prevent costly repair or replacement of expensive connectors while preserving the quality and integrity of the connector by absorbing connect and disconnect abuse.

***Protect Equipment***

Equipment connectors that are mated frequently during manufacturing, test, check-out phases and environmental test programs can be protected by Glenair Sav-Con® Connector Savers.

***Prolong the Service Life of Test Cables***

Glenair Sav-Con® Connector Savers mated to test-cable connectors take the punishment of repetitive matings and unmatings.

## HOW TO ORDER SERIES 805 SAV-CON® CONNECTORS

**Sample Part Number**

| 805-010 | Z1 | 12-26 | P | A |
|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Shell Size- Insert Arrangement** | **Contact Type** | **Shell Key Position** |
| **805-010**<br>Series 805<br>Connector Saver | **C**<br>Aluminum / Black Anodize<br>(Non-Conductive)<br>RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel<br>RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated<br>RoHS Compliant | SEE<br>***CONTACT ARRANGEMENTS***<br>PAGE H-2 | **P**<br>Pin Contact on Plug Side, Socket Contact on Receptacle Side<br>**S**<br>Socket Contact on Plug Side, Pin Contact on Receptacle Side | **A**<br>Position A<br>(Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D |

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# Series 805 Mighty Mouse Triple-Start Sav-Con® Connector Savers

## 805-010

## DIMENSIONS

| Shell Size | A Threads | Ø B In. | Ø B mm. |
|---|---|---|---|
| 8 | .5000-.1P-.3L-TS | .691 | 17.55 |
| 9 | .5625-.1P-.3L-TS | .787 | 19.99 |
| 10 | .6250-.1P-.3L-TS | .826 | 20.98 |
| 11 | .6875-.1P-.3L-TS | .916 | 23.27 |
| 12 | .7500-.1P-.3L-TS | .982 | 24.94 |
| 15 | .9375-.1P-.3L-TS | 1.097 | 27.86 |
| 18 | 1.1250-.1P-.3L-TS | 1.290 | 32.77 |
| 19 | 1.1875-.1P-.3L-TS | 1.310 | 33.27 |
| 23 | 1.4375-.1P-.3L-TS | 1.562 | 39.67 |

## SPECIFICATIONS

| | |
|---|---|
| Current Rating | #23 5 AMPS, #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #12 and #16 1800 VAC |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -55° C. to +150° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 65 dB minimum from 1GHz to 10GHz. |
| Magnetic Permeability | 2.0 µ maximum |
| Durability | 2000 mating cycles |

## MATERIALS AND FINISHES

| | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Seal | Fluorosilicone rubber |
| Ground Spring | Nickel-plated beryllium copper |

See Series 80 General Information for complete material and finish specs.

## SERIES 805 KEY POSITIONS

PLUG RECEPTACLE

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

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***Abrasion-Resistant Polyurethane Jacket*** provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

***90% Tinned Copper Braid*** is terminated directly to connector with stainless steel ***BAND-IT®*** strap.

***Watertight Overmold*** provides strain relief and protection.

# Series 805 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT®*** straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing.

Series 801 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following pages.

| HARSH ENVIRONMENT CORDSET SPECIFICATIONS | |
|---|---|
| Cable Jacket Material | Thermoplastic Polyurethane, Black, Low-Smoke, Zero-Halogen |
| Cable Shield | Tin-Coated Copper Braid, 90% Minimum Coverage |
| Conductors | Silver Coated Stranded Wire, TFE Insulated, Per M22759/11 |
| ***BAND-IT®*** Shield Termination Band | Stainless Steel |
| Current Rating | #23 5 Amps, #20HD 7.5 Amps, #16 13 Amps, #12 23 Amps |
| Test Voltage (Dielectric Withstanding Voltage) | #23 500 VAC, #20HD 750 VAC, #16 and #12 1800 VAC Sea Level |
| Insulation Resistance | 200 megohms minimum |
| Operating Temperature | -30° C. to +105° C. |
| Solvent Resistance, Polyamide Overmold | Excellent Resistance to Most Solvents, Fuels, and Oils; Poor Resistance to Strong Acids and Bipolar Solvents (Alcohol) |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |
| Cable jacket Flammability and Toxicity | Toxicity Index 3.9 per NES 713<br>Oxygen Index 28% per ASTM D-2863<br>Smoke Index 24 per NES 711 |



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# Series 805 Mighty Mouse Triple-Start Overmolded Cordset Ordering Information

## 805-009 and 805-018

### HOW TO ORDER 805-009 CORDSETS WITH #23 CONTACTS

Sample Part Number

| 805-009 | -B | A | 6 | M | 8-4 | P | A | -36 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **805-009**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #23 Contacts | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#22 AWG<br>**4**<br>#24 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **8-4**<br>**8-6**<br>**8-7**<br>**9-10**<br>**10-13**<br>**11-19**<br>**12-26**<br>**15-37**<br>**18-55**<br>**19-85** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D | Overall Length In Inches<br>12 Inch Min. |

### 11-210HOW TO ORDER 805-018 CORDSETS WITH #20HD CONTACTS

Sample Part Number

| 805-018 | -A | N | 0 | ZNU | 11-210 | N | B | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **805-018**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #20HD Contacts | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **0**<br>#20 AWG<br>**2**<br>#22 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **8-23**<br>**9-25**<br>**10-28**<br>**11-210**<br>**15-220**<br>**18-235**<br>**19-241** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D | Overall Length In Inches<br>12 Inch Min. |

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# Series 805 Mighty Mouse Triple-Start Overmolded Cordset Ordering Information

## 805-015 and 805-016

Glenair®

## HOW TO ORDER 805-015 CORDSETS WITH #16 CONTACTS

**Sample Part Number**

| 805-015 | -B | A | 6 | M | 19-14 | P | A | -36 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **805-015**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #16 Contacts | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **6**<br>#16 AWG<br>**8**<br>#18 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **8-1**<br>**10-2**<br>**11-4**<br>**11-19**<br>**12-5**<br>**15-7**<br>**18-12**<br>**19-14** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D | Overall Length In Inches<br>12 Inch Min. |

## HOW TO ORDER 805-016 CORDSETS WITH #12 CONTACTS

**Sample Part Number**

| 805-016 | -A | N | 2 | ZNU | 12-2 | N | B | -72 |
|---|---|---|---|---|---|---|---|---|
| **Series** | **End A Connector** | **End B Connector** | **Wire Size** | **Shell Material / Finish** | **Insert Arr.** | **Protective Cover** | **Shell Key Pos.** | **Length** |
| **805-016**<br>Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #12 Contacts | **-A**<br>Plug, with Male Pin Contacts<br>**-B**<br>Plug, with Female Socket Contacts<br>**-C**<br>Receptacle, with Male Pin Contacts<br>**-D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **2**<br>#12 AWG<br>**4**<br>#14 AWG | **M**<br>Aluminum / Electroless Nickel<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE<br>**Z1**<br>Stainless Steel / Passivated | **9-1**<br>**12-2**<br>**15-2**<br>**15-3**<br>**18-5**<br>**19-7** | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | **A**<br>Position A (Normal)<br>**B**<br>Position B<br>**C**<br>Position C<br>**D**<br>Position D | Overall Length In Inches<br>12 Inch Min. |

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# Series 805 Mighty Mouse Triple-Start Threaded Overmolded Corset Dimensions

## RIGHT ANGLE CORDSETS

***How To Order Right Angle Cordsets***

Insert the letter "**R**" after the End A or End B Connector letter designator.

***Example***

| | |
|---|---|
| Straight cable | 805-009-AC4NF18-55PA-72 |
| Right Angle | 805-009-A***R***C***R***4NF18-55PA-72 |

H

## DIMENSIONS

| Shell Size | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **8** | 2.4 | 61.0 | 0.6 | 15.2 | 1.5 | 38.1 | 0.6 | 15.2 | 2.1 | 53.3 |
| **9** | 2.4 | 61.0 | 0.7 | 17.8 | 1.5 | 38.1 | 0.7 | 17.8 | 2.3 | 58.4 |
| **10** | 2.5 | 63.5 | 0.8 | 19.1 | 1.6 | 40.6 | 0.8 | 19.1 | 2.4 | 61.0 |
| **11** | 2.8 | 71.1 | 0.9 | 21.6 | 1.9 | 48.3 | 0.9 | 21.6 | 2.6 | 66.0 |
| **12** | 2.8 | 71.1 | 0.9 | 21.6 | 1.9 | 48.3 | 0.9 | 21.6 | 2.6 | 66.0 |
| **15** | 3.1 | 78.7 | 1.1 | 28.0 | 2.2 | 55.9 | 1.1 | 28.0 | 3.1 | 78.7 |
| **18** | 3.4 | 86.4 | 1.3 | 33.0 | 2.5 | 63.5 | 1.3 | 33.0 | 3.5 | 88.9 |
| **19** | 3.9 | 99.1 | 1.4 | 35.6 | 3.0 | 76.2 | 1.4 | 35.6 | 3.7 | 94.0 |

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# Series 805 Mighty Mouse Triple-Start Protective Cover Ordering Information

## 667-261 and 667-262

**Plug Cover**

**Receptacle Cover**

***Protect Connectors From Damage***
Machined aluminum or stainless steel protective covers have fluorosilicone gasket for a watertight fit.

***Stainless Steel Fittings and Rings***
Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

***Polyurethane-Coated SST Wire Rope*** offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

***Braided Nylon Rope*** provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

## HOW TO ORDER

**Sample Part Number**

| 667-262 | -M | -G | 9 | 04 | | -6 |
|---|---|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Attachment Type** | **Shell Size** | **Attachment Code** | | **Attachment Length in Inches** |
| <br>**667-261** Protective Cover for use with Series 805 Plugs<br> <br>**667-262** Protective Cover for use with Series 805 Receptacles | **-C** Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**-M** Aluminum / Electroless Nickel RoHS Compliant<br>**-NF** Aluminum / Cadmium with Olive Drab Chromate<br>**-ZN** Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**-ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**-MT** Aluminum / Nickel-PTFE RoHS Compliant<br>**-Z1** Stainless Steel / Passivated RoHS Compliant | **-G** Nylon Rope<br>**-H** SST Wire Rope, Teflon® Jacket<br>**-N** No Attachment<br>**-S** SST Sash Chain<br>**-SK** Nylon Rope With Slip Knot<br>**-T** SST Wire Rope, No Jacket<br>**-U** SST Wire Rope, Polyurethane Jacket "SST" = Stainless Steel | **8**<br>**9**<br>**10**<br>**11**<br>**12**<br>**15**<br>**18**<br>**19**<br>**23** | Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot) | | Omit for attachment Type **N** (No Attachment)<br><br>**Example**<br>"-6" equals six inch length |
| | | | | <br>Small Ring | **01** – .126 (3.20) I.D.<br>**02** – .145 (3.68) I.D.<br>**04** – .188 (4.78) I.D.<br>**06** – .197 (5.00) I.D. | |
| | | | | <br>Large Ring | **14** – .385 (9.78) I.D.<br>**16** – .570 (14.48) I.D.<br>**17** – .635 (16.13) I.D.<br>**18** – .695 (17.65) I.D.<br>**24** – .766 (19.46) I.D.<br>**19** – .885 (22.48) I.D.<br>**20** – 1.070 (27.17) I.D.<br>**22** – 1.210 (30.73) I.D.<br>**23** – 1.275 (32.39) I.D.<br>**25** – 1.530 (38.86) I.D. | |
| | | | | <br>Split Ring | **50** – .420 (10.67) I.D.<br>**52** – .480 (12.19) I.D.<br>**54** – .635 (16.13) I.D.<br>**56** – .745 (18.92) I.D.<br>**58** – .885 (22.48) I.D.<br>**60** – 1.010 (25.65) I.D.<br>**64** – 1.125 (28.58) I.D.<br>**68** – 1.345 (34.16) I.D. | |

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# Series 805 Mighty Mouse Triple-Start Protective Cover Dimensions

## 667-262

## Attaching a 667-262 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 16 | 8 | .570 | 14.48 | .685 | 17.40 |
| 18 | 9, 10 | .695 | 17.65 | .820 | 20.82 |
| 24 | 11 | .766 | 19.46 | 1.140 | 28.96 |
| 19 | 12 | .885 | 22.48 | 1.010 | 25.65 |
| 20 | 15 | 1.070 | 27.17 | 1.195 | 30.35 |
| 22 | 18 | 1.210 | 30.73 | 1.312 | 33.32 |
| 23 | 19 | 1.275 | 32.39 | 1.375 | 34.93 |
| 25 | 23 | 1.530 | 38.86 | 1.630 | 41.40 |

## Attaching a 667-262 Receptacle Cover to a Panel With a Screw

Small Ring for Attaching Receptacle Covers to a Panel with a Screw

| Dia. Code | Screw Size | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| 01 | #4, M3 | .126 | 3.20 | .31 | 7.9 |
| 02 | #6 | .145 | 3.68 | .31 | 7.9 |
| 04 | #8, M4 | .188 | 4.78 | .31 | 7.9 |
| 06 | #10 | .197 | 5.00 | .31 | 7.9 |

## Attaching a Cover to a Cable Assembly With a Solid Ring

Solid Ring

| Dia. Code | Shell Size | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
|---|---|---|---|---|---|
| 14 | 8 | .385 | 9.78 | .510 | 12.95 |
| 16 | 9, 10, 11 | .570 | 14.48 | .685 | 17.40 |
| 17 | 12 | .635 | 16.13 | .760 | 19.30 |
| 19 | 15 | .885 | 22.48 | 1.010 | 25.65 |
| 20 | 18, 19 | 1.070 | 27.17 | 1.195 | 30.35 |
| 22 | 23 | 1.210 | 30.73 | 1.312 | 33.32 |

## Attaching a Cover to a Cable Using a Split Ring or Slip Knot

Large Split Ring for Attaching Covers to Cables

| Dia. Code | Max. Cable Dia. (in.) | Ring Diameter Min. ID In. | Ring Diameter Min. ID mm. | Ring Diameter Max. OD In. | Ring Diameter Max. OD mm. |
|---|---|---|---|---|---|
| 50 | .410 | .420 | 10.67 | .580 | 14.73 |
| 52 | .470 | .480 | 12.19 | .640 | 16.26 |
| 54 | .625 | .635 | 16.13 | .796 | 20.22 |
| 56 | .735 | .745 | 18.92 | .905 | 22.99 |
| 58 | .875 | .885 | 22.48 | 1.046 | 26.57 |
| 60 | 1.000 | 1.010 | 25.65 | 1.171 | 29.74 |
| 64 | 1.115 | 1.125 | 28.58 | 1.285 | 32.64 |
| 68 | 1.335 | 1.345 | 34.16 | 1.505 | 38.23 |

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# Series 805 Mighty Mouse Triple-Start Protective Cover Dimensions

## 667-261 and 667-262

***667-261 Plug Cover***

***667-262 Receptacle Cover***

| Shell Size | A Max. | | B | C |
|---|---|---|---|---|
| | In. | mm. | | |
| **8** | .653 | 16.59 | .5000-.1P-.3L-TS-2A | .5000-.1P-.3L-TS-2B |
| **9** | .715 | 18.16 | .5625-.1P-.3L-TS-2A | .5625-.1P-.3L-TS-2B |
| **10** | .778 | 19.76 | .6250-.1P-.3L-TS-2A | .6250-.1P-.3L-TS-2B |
| **11** | .841 | 21.36 | .6875-.1P-.3L-TS-2A | .6875-.1P-.3L-TS-2B |
| **12** | .903 | 22.94 | .7500-.1P-.3L-TS-2A | .7500-.1P-.3L-TS-2B |
| **15** | 1.091 | 27.71 | .9375-.1P-.3L-TS-2A | .9375-.1P-.3L-TS-2B |
| **18** | 1.278 | 32.46 | 1.1250-.1P-.3L-TS-2A | 1.1250-.1P-.3L-TS-2B |
| **19** | 1.340 | 34.04 | 1.1870-.1P-.3L-TS-2A | 1.1870-.1P-.3L-TS-2B |
| **23** | 1.600 | 40.64 | 1.4375-.1P-.3L-TS-2A | 1.4375-.1P-.3L-TS-2B |

## MATERIALS AND FINISHES

| | |
|---|---|
| Cover | Aluminum alloy or stainless steel |
| Gasket | Fluorosilicone rubber |
| Wire,Hardware | Stainless steel, passivated |

## LANYARD OPTIONS

| | |
|---|---|
| **Nylon Rope** | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter |
| **Polyurethane Coated Wire Rope** | Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter |
| **Teflon® Jacketed Wire Rope** | Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter |
| **Sash Chain** | Stainless steel, #8 chain, .240" (6mm) |
| **Slip Knot (SK)** for Attaching Covers to Cable | 55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop. |

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SERIES 80

# FROM FILTERS TO FIBER OPTICS

The Glenair Series 80 Mighty Mouse Conector line is a full-spectrum, no gaps solution for high-reliability interconnect systems that require reduced size and weight as principal design criteria. From standard environmental versions to advanced EMI/EMP filters, hermetic designs, space-grade versions, fiber optics—you name it—the Series 80 Mighty Mouse is ready for every every mission-critical military and commercial application. And because Glenair controls every manufacturing process in-house, we can offer lightning-fast turnaround on even the most specialized interconnect requirement.

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## PRODUCT FACTS

- Compact Weight-Saving Design with #23 Contacts
- C and Pi Filters from 400 pF to 56000 pF
- 3 Through 130 Contacts
- Multilayer Ceramic Planar Capacitor Array
- 250 Volt DC
- PC Tail and Solder Cup Versions
- Fully Sealed with Thermally Conductive Epoxy
- Space-Grade Bake-Out Processing Available
- Double-Start,Triple-Start and Push-Pull Versions

# Glenair's "Mighty Mouse" Delivers EMI/EMP Filtering in a Lightweight, Ultraminiature Package

Glenair's filtered Series 80 "Mighty Mouse" connector family provides significant size and weight savings compared to larger "MS" connectors. The high density #23 contacts provide almost double the density of D38999. Designed to meet stringent aerospace performance requirements, these connectors are offered with standard low pass Pi or C filter arrays, or with customized filters to meet your specific needs. Thermally conductive epoxy protects the filter package from mechanical and heat stress. These filtered receptacles mate to standard Series 80 plugs and are available in jam nut or square flange versions. ***Now available with size #16 and size #12 contacts.***

| SPECIFICATIONS | |
|---|---|
| Current Rating | #23 5 AMPS, #20HD 7.5 A., #16 13 A., #12 23 A. |
| Dielectric Withstanding Voltage | 250 VDC |
| Insulation Resistance | 5000 megohms minimum @ 200 VDC |
| Operating Temperature | -55° C. to +125° C. |
| Shock | 300 g. |
| Vibration | 37 g. |
| Shielding Effectiveness | 50 dB minimum from 100MHz to 1000MHz. |

| MATERIALS AND FINISHES | |
|---|---|
| Shells, Jam Nuts | Aluminum alloy or stainless steel |
| Contacts | Copper alloy, 50 µInch gold plated |
| Insulators | Liquid crystal polymer (LCP) |
| Interfacial Seal, O-rings, Wire Sealing Grommet | Fluorosilicone rubber |



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# Series 80 Mighty Mouse
# EMI/EMP Filtered Connectors
## General Information

## About Filtered Connectors

"Filtering" or suppression of electromagnetic noise within the connector package is reliably accomplished through the integration of capacitors and diodes into the connector to segregate interfering high-frequency or high voltage noise from the desired lower frequency signals.

While various types of capacitor filters are available, perhaps the most widely applied is the Planar Array type. Planar Arrays are extremely effective at filtering high-frequency interference. Planar arrays may be fabricated with different capacitive values on individual pins for additional flexibility in achieving the desired level of EMC. Diodes are used to clamp the voltage below a certain value, thereby protecting the electronic circuity. They are typically integrated into the connector using a small printed circuit board.

Using filter technology has certain advantages to the electrical system engineer, most especially improved signal integrity as well as size and weight reduction. In addition, filters can be incorporated into an interconnect system late in the research and development process; for example after an unforeseen noise problem has been detected. In every filter application the signal levels and frequency bands must be well understood in order to select the appropriate mode or type of filter technology.

EMI noise covers a broad range of frequencies. Filter modes and types are consequently specified according to the EMI frequency ranges which are the source of the actual signal degradation and the operating frequency of the affected device. Filter selection must take the following into account:

- ***Capacitance Value***
- ***Working Voltage***
- ***Surge Voltage***
- ***Dielectric Withstanding Voltage***
- ***Insulation Resistance***
- ***Transient Protection***

Filter connectors suitable for most defense/ aerospace applications are broadly identified as "low-pass" filters (i.e. they let low frequency signals pass through and attenuate higher frequencies). The attenuation curve can be shaped using different filter types (different configurations of capacitors and inductors). These types include: Pi Filter, L-C or C-L Filter, and C Filter. These filter connector types are characterized by their relative abilities to filter noise according to capacitance, voltage values and load impedances.

Prior to shipping a filtered connector, Glenair offers extensive testing, qualification and burn-in options. Tests range from a simple capacitance (C), insulation resistance (IR), and dielectric withstanding voltage (DWV), to more elaborate options such as RF insertion loss, dissipation factor, Zener/ TVS diode test, ground resistance, voltage conditioning and thermal shock.

## About Multilayer Ceramic Planar Array Filters

***Planar, multi-layer ceramic capacitive filters*** offer reduced size and improved performance compared to discrete discoidal or tubular capacitors. Planar array filter devices have the advantage, especially when compared to capacitive filters integrated at the circuit board level, of being bidirectionally effective at attenuating unwanted noise travelling into and out of equipment enclosures.

As mentioned above, the planar array can be designed with different capacitive values on individual pins, and pin groupings, and can also be selectively equipped with surge protection diodes. The ability to accommodate such Transient Voltage Suppressions (TVS) diodes to protect against voltage spikes from transient sources such as EMP, lightning or Electrostatic Discharge (ESD) is an additional strength of the planar array design. The planar array package can also easily accommodate ferrite elements to add inductance to the filter device. For these reasons and more, the planar array is the most common filter type specified in defense/ aerospace and other high-performance applications.

The planar array consists of multiple layers of ceramic dielectric separated by individual sheets of a ceramic tape material screen-printed with a pattern of metal electrodes. The exact configuration of the electrodes—their combined capacitance values, positions vis-a-vis individual contacts, selective grounding to the connector shell, etc.—determines the EMI attenuation properties of the filter device. After the layer-cake of dielectric materials and conductive elements is assembled, it is fired at high temperature to create a unified, monolithic structure.

Typically, custom-configured planar arrays, with unique capacitive elements and values, are required to effectively address complex EMI problems such as might be encountered in an avionics bay or in the body of a missile. For this reason, planar array fabrication is accomplished using the most advanced CAD software and CNC machine tools. As critical EMI problems are often discovered late in the development process—perhaps only after equipment has been installed for use—it is critical that turnaround times in design and fabrication of custom designs are kept to a minimum. Glenair is committed to meeting the most aggressive delivery requirements for planar array type filter connectors.



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## SECTION J FILTERED MIGHTY MOUSE PRODUCT SELECTION GUIDE

***Series 801 Filtered Receptacles***
**Page J-6**

### Series 801 Filtered Receptacles with Double-Start ACME Threads

Rugged double-start ACME thread provides fast mating. Choose jam nut mount (shown) or square flange. Integral shield termination platform accepts BAND-IT micro-bands, sold separately. Mates with Series 801 plugs.

***Series 804 Filtered Receptacles***
**Page J-9**

### Series 804 Filtered Quick-Disconnect Receptacles

These "push-pull" receptacles mate with standard Series 804 plugs. A coil spring in the receptacle provides low shell-to-shell resistance and consistent de-mate release force. Choose front mount or rear mount jam nut styles.

***Series 805 Filtered receptacles***
**Page J-12**

### Series 805 Filtered Receptacles with Triple-Start ACME Threads

Series 805 connectors offer performance comparable to MIL-DTL-38999 but with reduced size and weight. Mating plugs feature a ground spring and ratcheting self-locking mechanism.

## *About EMP, ESD and Transient Voltage Suppression*

***Electromagnetic Pulse (EMP)*** refers to the intense radio frequency pulses produced by nuclear explosions at high altitudes. Other names for this phenomenon are Nuclear EMP (NEMP), and High-Altitude EMP (HEMP). Like other forms of electromagnetic interference, EMP can have a destructive effect on sensitive electronic devices, particularly those used in mission-critical military applications. This occurs if and when the EMP grounds to an antenna or an unshielded cable and passes unmolested into an electronic device.

***Electrostatic Discharge (ESD)*** is the sudden flow of electric current caused by static electricity and electrostatic induction. Semiconductors can be damaged by ESD.

***Transient Voltage Suppression (TVS)*** technologies are designed to shunt voltage transients directly to ground before such surges can damage sensitive electronic equipment. Individual TVS diodes as well as diode modules may be incorporated directly into the filter connector package to provide optimal protection for either individual contacts or groups of contacts without significant increases in connector size or weight.

***Glenair connector subassembly with diodes to shunt excessive voltages to ground.***

Individual circuit protection diodes and diode modules are available for all connector types and are routinely stocked by Glenair to reduce lead-times. Individual diodes and modules may be screened and tested prior to assembly to ensure reliable performance. Field maintenance and repair of damaged diodes is also possible as both individual diodes and diode modules are easily removed from the connector package.

RTCA DO-160 and other electrical performance standards now define acceptable benchmarks for withstanding electromagnetic pulse, lightning strike, or other induced voltage surges in high-reliability systems. Glenair designs all TVS equipped filter connectors to conform to the RTCA DO-160 standard. Contact Glenair for more information on filtered connectors with transient voltage suppression.



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# Series 80 Mighty Mouse
# EMI/EMP Filtered Connectors
## Filter Types

Glenair supplies filter connectors in the following electrical configurations: C, L-C, C-L, and Pi. The following general values may be used in type selection: single element filter connectors sporting either a single capacitor or inductor yield an insertion loss characteristic of 20dB per decade, dual element filters (capacitor plus an inductor) 40dB per decade, and triple element filters 60dB per decade. Selection is based primarily on source and load impedances but may also be influenced by the level of attenuation required at various frequencies. Please consult the factory for assistance in evaluating insertion loss. values.

### C Filter

Single capacitor with low self inductance. This configuration is generally used to attenuate high frequency signals. The simple design allows high-frequency EMI to discharge to ground via the surrounding electromagnetic field.

C

**C FILTER INSERTION LOSS**

| Frequency | Insertion Loss, dB Minimum, 25°C | | | | | | |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G |
| 1 MHz | 6 | 5 | 3 | – | – | – | – |
| 10 MHz | 24 | 23 | 16 | 8 | 4 | – | – |
| 100 MHz | 41 | 39 | 35 | 28 | 21 | 10 | 5 |
| 500-1000 MHz | 50 | 49 | 46 | 41 | 34 | 23 | 17 |

**C FILTER CAPACITANCE**

| Filter Class | Capacitance (pF) |
|---|---|
| A | 19000 - 28000 |
| B | 16000 - 22500 |
| C | 9000 - 16500 |
| D | 4000 - 6000 |
| E | 1650 - 2500 |
| F | 400 - 650 |
| G | 200 - 300 |

### L-C or C-L Filter

Single capacitor combined with an inductive element. It is commonly used in a circuit with a both a low impedance source and a high impedance load or a low impedance load and a high impedance source. The inductive element should face the low impedance.

L-C

C-L

**L-C FILTER INSERTION LOSS**

| Frequency | Insertion Loss, dB Minimum, 25°C | | | | | | |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G |
| 1 MHz | 6 | 6 | 3 | – | – | – | – |
| 10 MHz | 25 | 24 | 17 | 9 | 6 | – | – |
| 100 MHz | 42 | 41 | 38 | 30 | 23 | 12 | 6 |
| 500-1000 MHz | 52 | 51 | 48 | 43 | 36 | 25 | 19 |

**L-C FILTER CAPACITANCE**

| Filter Class | Capacitance (pF) |
|---|---|
| A | 19000 - 28000 |
| B | 16000 - 22500 |
| C | 9000 - 16500 |
| D | 4000 - 6000 |
| E | 1650 - 2500 |
| F | 400 - 650 |
| G | 200 - 300 |



### Pi Filter

Dual capacitors with a single inductive element positioned between them. The Pi filter provides exceptional high-frequency performance due to its sharper rolloff and is typically used when both source and load impedances are high.

Pi

**PI FILTER INSERTION LOSS**

| Frequency | Insertion Loss, dB Minimum, 25°C | | | | | | |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G |
| 1 MHz | 10 | 8 | 5 | 1 | – | – | – |
| 10 MHz | 40 | 35 | 25 | 14 | 8 | 2 | 0.8 |
| 100 MHz | 62 | 60 | 57 | 50 | 40 | 15 | 13 |
| 500-1000 MHz | 66 | 62 | 60 | 58 | 52 | 32 | 22 |

**PI FILTER CAPACITANCE**

| Filter Class | Capacitance (pF) |
|---|---|
| A | 38000 - 56000 |
| B | 32000 - 45000 |
| C | 18000 - 33000 |
| D | 8000 - 12000 |
| E | 3300 - 5000 |
| F | 800 - 1300 |
| G | 400 - 600 |

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## Series 80 "Mighty Mouse" Contact Arrangements

| Contact Size | Contact Quantity #23 | #20 | #20HD | #16 | #12 | Series 801 | Series 804 | Series 805 |
|---|---|---|---|---|---|---|---|---|
| **Size #23 Contacts** 5 Amp Max. Current 500 VAC | 3 | | | | | 5-3 | 5-3 | Not Avail. |
| | 4 | | | | | 6-4 | 6-4 | 8-4 |
| | 6 | | | | | 6-6 | 6-6 | 8-6 |
| | 7 | | | | | 6-7 | 6-7 | 8-7 |
| | 10 | | | | | 7-10 | 7-10 | 9-10 |
| | 13 | | | | | 8-13 | 8-13 | 10-13 |
| | 19 | | | | | 9-19 | 9-19 | 11-19 |
| | 26 | | | | | 10-26 | 10-26 | 12-26 |
| | 37 | | | | | 13-37 | 12-37 | 15-37 |
| | 55 | | | | | 16-55 | 14-55 | 18-55 |
| | 85 | | | | | 17-85 | Not Avail. | 19-85 |
| | 130 | | | | | 21-130 | Not Avail. | 23-130 |
| **Size #20HD Contacts** 7.5 Amp Max. Current 750 VAC | | | 3 | | | 6-23 | 6-23 | 8-23 |
| | | | 5 | | | 7-25 | 7-25 | 9-25 |
| | | | 8 | | | 8-28 | 8-28 | 10-28 |
| | | | 10 | | | 9-210 | 9-210 | 11-210 |
| | | | 20 | | | 13-220 | 12-220 | 15-220 |
| | | | 35 | | | 16-235 | 14-235 | 18-235 |
| | | | 41 | | | 17-241 | Not Avail. | 19-241 |
| | | | 69 | | | 21-269 | Not Avail. | 23-269 |
| **Size #16 Contacts** 13 Amp Max. Current 1800 VAC | | | | 1 | | 6-1 | 6-1 | 8-1 |
| | | | | 2 | | 8-2 | 8-2 | 10-2 |
| | | | | 4 | | 9-4 | 9-4 | 11-4 |
| | | | | 5 | | 10-5 | 10-5 | 12-5 |
| | | | | 7 | | 13-7 | 12-7 | 15-7 |
| | | | | 12 | | 16-12 | 14-12 | 18-12 |
| | | | | 14 | | 17-14 | Not Avail. | 19-14 |
| | | | | 22 | | 21-22 | Not Avail. | 23-22 |
| **Size #12 Contacts** 23 Amp Max. Current 1800 VAC | | | | | 1 | 7-1 | 7-1 | 9-1 |
| | | | | | 2 | 10-2 | 10-2 | 12-2 |
| | | | | | 2 | 13-2 | 12-2 | 15-2 |
| | | | | | 3 | 13-3 | 12-3 | 15-3 |
| | | | | | 5 | 16-5 | 14-5 | 18-5 |
| | | | | | 7 | 17-7 | Not Avail. | 19-7 |
| | | | | | 12 | 21-12 | Not Avail. | 23-12 |
| **Contact Arrangements with Mixed Size (Combo) Layouts** | 4 | 2 | | | | 8-200 | 8-200 | 10-200 |
| | 8 | 2 | | | | 9-201 | 9-201 | 11-201 |
| | 4 | | | 2 | | 9-200 | 9-200 | 11-200 |
| | 8 | | | 2 | | 10-202 | 10-202 | 12-202 |
| | 4 | | | | 2 | 10-201 | 10-201 | 12-201 |
| | 6 | | | | 2 | 13-200 | 12-200 | 15-200 |
| | 10 | | | | 2 | 13-201 | 12-201 | 15-201 |
| | 12 | | | | 1 | 10-200 | 10-200 | 12-200 |

### Printed Circuit Board Layouts

Refer to Pages B-4 to B-15 in Section B General Information

### Insert Arrangements

Refer to Pages B-2 to B-3 in Section B General Information

### Product Specifications

Refer to Pages B-18 to B-23 in Section B General Information

### Torque Specifications

Refer to Page B-16 in Section B General Information



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# Series 801 Mighty Mouse
# EMI/EMP Filtered Connectors
## Ordering Information

***Series 801 Filtered Connectors*** feature double-start ACME coupling threads. Available in ***Jam Nut*** and ***Square Flange*** versions, these environmentally sealed connectors offer aerospace filter performance in a miniaturized package.

***These connectors mate to standard Series 801 plugs.***

*Consult Factory for Additional Filter Types, TVS Diodes, and other Custom Filter Connector Configurations.*

**Series 801 "Mighty Mouse"**

**Insert Arrangement** (See Table III Page J-5)

**Filter Connector Product Code**

**Connector Matl/Fin** (See Table I)

**Contact Gender**
***P*** - *Pin*
***S*** - *Socket*

**Capacitance Code** (See Table II)

**240 - 801 - 02 M 6-7 P S P A A**

**Shell Style**
- ***01*** - *Square Flange Receptacle with Solder Cup Contacts and Band Platform*
- ***02*** - *Square Flange Receptacle with Printed Circuit Board Contacts*
- ***07*** - *Jam Nut Receptacle with Solder Cup Contacts and Band Platform*
- ***08*** - *Jam Nut Receptacle with Printed Circuit Board Contacts*

**Contact Termination**
- ***S*** - *Solder Cup (Shell Style 01 and 07 only)*
- ***P*** - *PC Tail (Shell Style 02 and 08 only)*

**Filter Type**
***P*** - *Pi* ***C*** - *C*

**Alternate Key Position**
***A, B, C, D, E, F***
(A = Normal)



**TABLE I: CONNECTOR MATERIAL AND FINISH**

| SYM | MATERIAL | FINISH |
|---|---|---|
| M | Aluminum | Electroless Nickel |
| MT | Aluminum | NI-PTFE 1000 Hour Grey (Nickel-Fluorocarbon Polymer) |
| NF | Aluminum | Cadmium O.D. Over Electroless Nickel |
| ZM | Stainless Steel | Electroless Nickel |
| ZN | Aluminum | Zinc-Nickel Over Electroless Nickel |

**TABLE II: CAPACITANCE CODE**

| CODE | PI - SECTION (pF) | C - SECTION (pF) |
|---|---|---|
| A | 38,000 - 56,000 | 19,000 - 28,000 |
| B | 32,000 - 45,000 | 16,000 - 22,500 |
| C | 18,000 - 33,000 | 9,000 - 16,500 |
| D | 8,000 - 12,000 | 4,000 - 6,000 |
| E | 3,300 - 5,000 | 1,650 - 2,500 |
| F | 800 - 1,300 | 400 - 650 |
| G | 400 - 600 | 200 - 300 |

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# Series 801 Mighty Mouse EMI/EMP Filtered Connectors
## Jam Nut Receptacle Dimensions
### 240-801-07 and 240-801-08

***Solder Cup with Band Platform***
240-801-07

***PC Tail/Solder Cup***
240-801-08

## DIMENSIONS

| Shell Size | Ø A | | B Flat | | C Flat | | D Thread | E Thread UN-2A | Ø F | | Ø G |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | | In. | mm. | |
| **5** | .575 | 14.61 | .350 | 8.89 | .545 | 13.84 | .3125-.05P-.1L-2A | .375-28 | .245 | 6.22 | **#23** .018/.022 (0.46/0.56) |
| **6** | .635 | 16.13 | .410 | 10.41 | .595 | 15.11 | .375-.05P-.1L-2A | .4375-28 | .290 | 7.37 | |
| **7** | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .4375-.05P-1L2A | .5625-32 | .390 | 9.91 | |
| **8** | .755 | 19.18 | .536 | 13.61 | .723 | 18.36 | .5000-.05P-.1L-2A | .5625-32 | .445 | 11.30 | **#20** .024/.028 (0.61/0.71) |
| **9** | .830 | 21.08 | .596 | 15.14 | .790 | 20.07 | .5625-.05P-.1L-2A | .625-28 | .500 | 12.70 | |
| **10** | .890 | 22.61 | .658 | 16.71 | .855 | 21.72 | .6250-.05P-.1L-2A | .6875-28 | .560 | 14.22 | **#16** .060/.064 (1.52/1.63) |
| **13** | 1.078 | 27.38 | .845 | 21.46 | 1.044 | 26.52 | .8125-.1P-.2L-2A | .875-28 | .650 | 16.51 | |
| **16** | 1.264 | 32.11 | 1.022 | 25.96 | 1.230 | 31.24 | 1.000-.1P-.2L-2A | 1.0625-20 | .805 | 20.45 | **#12** .092/.096 (2.34/2.44) |
| **17** | 1.325 | 33.66 | 1.096 | 27.84 | 1.290 | 32.77 | 1.062-.1P-.2L-2A | 1.125-28 | .850 | 21.59 | |
| **21** | 1.625 | 41.28 | 1.345 | 34.16 | 1.577 | 40.06 | 1.3125-.1P-.2L-2A | 1.375-28 | 1.110 | 28.19 | |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

## SERIES 801 JAM NUT PANEL CUTOUT

| Shell Size | A Flat | | Ø B | |
|---|---|---|---|---|
| | In. ± .002 | mm. ± 0.05 | In. ± .002 | mm. ± 0.05 |
| **5** | .356 | 9.04 | .385 | 9.78 |
| **6** | .416 | 10.57 | .447 | 11.35 |
| **7** | .542 | 13.77 | .572 | 14.53 |
| **8** | .542 | 13.77 | .572 | 14.53 |
| **9** | .602 | 15.29 | .635 | 16.13 |
| **10** | .666 | 16.92 | .697 | 17.70 |
| **13** | .851 | 21.62 | .885 | 22.48 |
| **16** | 1.028 | 26.11 | 1.075 | 27.31 |
| **17** | 1.102 | 27.99 | 1.135 | 28.83 |
| **21** | 1.354 | 34.39 | 1.385 | 35.18 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 801 Mighty Mouse EMI/EMP Filtered Connectors
## Square Flange Receptacle Dimensions
### 240-801-01 and 240-801-02

***Solder Cup with Band Platform***
240-801-01

***PC Tail/ Solder Cup***
240-801-02

## DIMENSIONS

| Shell Size | A | | B BSC | | Ø C | | Ø D | | E Thread | Ø F | | Ø G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. ±.003 | mm. ±.08 | | In. | mm. | |
| **5** | .530 | 13.46 | .363 | 9.22 | .680 | 17.27 | .093 | 2.36 | .3125-.05P-.1L-2A | .245 | 6.22 | **#23** .018/.022 (0.46/0.56) |
| **6** | .590 | 14.99 | .423 | 10.74 | .750 | 19.05 | .093 | 2.36 | .375-.05P-.1L-2A | .290 | 7.37 | |
| **7** | .650 | 16.51 | .483 | 12.27 | .850 | 21.59 | .093 | 2.36 | .4375-.05P-1L-2A | .390 | 9.91 | |
| **8** | .712 | 18.08 | .545 | 13.84 | .938 | 23.83 | .093 | 2.36 | .5000-.05P-1L-2A | .445 | 11.30 | **#20** .024/.028 (0.61/0.71) |
| **9** | .850 | 21.59 | .607 | 15.42 | 1.125 | 28.58 | .128 | 3.25 | .5625-.05P-.1L-2A | .500 | 12.70 | |
| **10** | .890 | 22.61 | .670 | 17.02 | 1.188 | 30.18 | .128 | 2.25 | .6250-.05P-1L-2A | .560 | 14.22 | **#16** .060/.064 (1.52/1.63) |
| **13** | 1.030 | 26.16 | .812 | 20.62 | 1.375 | 34.93 | .128 | 3.25 | .8125-.1P-.2L-2A | .650 | 16.51 | |
| **16** | 1.219 | 30.96 | .981 | 24.92 | 1.625 | 41.28 | .128 | 3.25 | 1.000-.1P-.2L-2A | .805 | 20.45 | **#12** .092/.096 (2.34/2.44) |
| **17** | 1.280 | 32.51 | 1.060 | 26.92 | 1.700 | 43.18 | .128 | 3.25 | 1.062-.1P-.2L-2A | .850 | 21.59 | |
| **21** | 1.430 | 36.32 | 1.205 | 30.61 | 1.938 | 49.23 | .128 | 3.25 | 1.3125-.1P-.2L-2A | 1.110 | 28.19 | |

## SERIES 801 PANEL CUTOUT

| Shell Size | Ø A | | Ø B | | Ø C | |
|---|---|---|---|---|---|---|
| | In | mm. | In | mm. | In | mm. |
| **5** | .330 | 8.38 | .363 | 9.22 | .093 | 2.36 |
| **6** | .390 | 9.91 | .423 | 10.74 | .093 | 2.36 |
| **7** | .450 | 11.43 | .483 | 12.27 | .093 | 2.36 |
| **8** | .510 | 12.95 | .545 | 13.84 | .093 | 2.36 |
| **9** | .575 | 14.61 | .607 | 15.42 | .128 | 3.25 |
| **10** | .640 | 16.26 | .670 | 17.02 | .128 | 3.25 |
| **13** | .825 | 20.96 | .812 | 20.65 | .128 | 3.25 |
| **16** | 1.015 | 25.78 | .981 | 24.92 | .128 | 3.25 |
| **17** | 1.075 | 27.31 | 1.060 | 26.92 | .128 | 3.25 |
| **21** | 1.325 | 33.66 | 1.205 | 30.61 | .128 | 3.25 |

## KEY POSITIONS

| | A° | B° |
|---|---|---|
| **A** | 150° | 210° |
| **B** | 75° | 210° |
| **C** | 95° | 230° |
| **D** | 140° | 275° |
| **E** | 75° | 275° |
| **F** | 95° | 210° |

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# Series 804 Mighty Mouse
# EMI/EMP Filtered Connectors
## Ordering Information

***Series 804 Filtered Connectors*** feature push-pull coupling. These environmentally sealed connectors offer aerospace filter performance in a miniaturized package. A gold-plated spring provides excellent shell-to-shell conductivity.

***Consult Factory*** *for Additional Filter Types, TVS Diodes, and other Custom Filter Connector Configurations.*

***These connectors mate to standard Series 804 plugs.***

**240 - 804 - 07 M 6-7 P S P A A**

- **240** — **Filter Connector Product Code**
- **804** — **Series 804 "Mighty Mouse" Push-Pull**
- **07** — **Shell Style**
  - ***07*** *- Jam Nut Receptacle, Rear Mount*
  - ***08*** *- Jam Nut Receptacle, Rear Mount*
- **M** — **Connector Matl/Fin** See Table I
- **6-7** — **Insert Arrangement** (See Table III Page J-5)
- **P** — **Contact Style**
  - ***P*** *- Pin*
  - ***S*** *- Socket*
- **S** — **Termination**
  - ***S*** *- Solder Cup*
  - ***P*** *- PC Tail*
- **P** — **Filter Type**
  - ***P*** *- Pi* ***C*** *- C*
- **A** — **Capacitance Code** See Table II
- **A** — **Key Position**
  - ***Omit*** for Single Keyway
  - ***A, B, C, D*** (A = Normal)

### TABLE I: CONNECTOR MATERIAL AND FINISH

| SYM | MATERIAL | FINISH |
|---|---|---|
| M | Aluminum | Electroless Nickel |
| MT | Aluminum | NI-PTFE 1000 Hour Grey (Nickel-Fluorocarbon Polymer) |
| NF | Aluminum | Cadmium O.D. Over Electroless Nickel |
| ZM | Stainless Steel | Electroless Nickel |
| ZN | Aluminum | Zinc-Nickel Over Electroless Nickel |

### TABLE II: CAPACITANCE CODE

| CODE | PI - SECTION (pF) | C - SECTION (pF) |
|---|---|---|
| A | 38,000 - 56,000 | 19,000 - 28,000 |
| B | 32,000 - 45,000 | 16,000 - 22,500 |
| C | 18,000 - 33,000 | 9,000 - 16,500 |
| D | 8,000 - 12,000 | 4,000 - 6,000 |
| E | 3,300 - 5,000 | 1,650 - 2,500 |
| F | 800 - 1,300 | 400 - 650 |
| G | 400 - 600 | 200 - 300 |



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 804 "Mighty Mouse" EMI/EMP Filtered Connectors
## Rear Mount Jam Nut Receptacle Dimensions
### 240-804-07

***Rear Panel Jam Nut***
240-804-07

## DIMENSIONS

| Shell Size | Ø A | | Ø B | | C Flat | | D Threads | Ø E | | Ø F | | Ø G Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | |
| **5** | .730 | 18.54 | .562 | 14.27 | .415 | 10.54 | .4375-32 UN-2A | .244 | 6.20 | .435 | 11.05 | **#23** .018/.022 (0.46/0.56) **#20** .024/.028 (0.61/0.71) **#16** .060/.064 (1.52/1.63) **#12** .092/.096 (2.34/2.44) |
| **6** | .730 | 18.54 | .625 | 15.87 | .467 | 14.40 | .5000-32 UN-2A | .330 | 8.38 | .483 | 12.27 | |
| **7** | .910 | 23.11 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .432 | 10.97 | .570 | 14.48 | |
| **8** | .955 | 24.26 | .750 | 19.05 | .594 | 15.09 | .6250-28 UN-2A | .493 | 12.52 | .593 | 15.06 | |
| **9** | 1.000 | 25.40 | .812 | 20.62 | .655 | 16.64 | .6875-28 UN-2A | .551 | 14.00 | .685 | 17.40 | |
| **10** | 1.085 | 27.48 | .875 | 22.22 | .721 | 18.31 | .7500-28 UN-2A | .620 | 15.75 | .725 | 18.42 | |
| **12** | 1.190 | 30.23 | 1.000 | 25.40 | .843 | 21.41 | .8750-28 UN-2A | .703 | 17.86 | .850 | 21.59 | |
| **14** | 1.325 | 33.66 | 1.125 | 28.57 | .968 | 24.59 | 1.0000-28 UN-2A | .863 | 21.92 | .973 | 24.71 | |
| **15** | 1.375 | 34.93 | 1.188 | 30.17 | 1.029 | 26.14 | 1.0625-20 UN-2A | .912 | 23.16 | 1.028 | 26.11 | |



## ALTERNATE KEY POSITIONS

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

## STYLE 07 JAM NUT PANEL CUTOUT

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| **5** | .425 | 10.80 | .448 | 11.38 |
| **6** | .477 | 12.12 | .510 | 12.95 |
| **7** | .604 | 15.34 | .635 | 16.13 |
| **8** | .604 | 15.34 | .635 | 16.13 |
| **9** | .665 | 16.89 | .695 | 17.65 |
| **10** | .731 | 18.57 | .760 | 19.30 |
| **12** | .853 | 21.67 | .885 | 22.48 |
| **14** | .978 | 24.84 | 1.010 | 25.65 |
| **15** | 1.039 | 26.39 | 1.070 | 27.18 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 804 "Mighty Mouse" EMI/EMP Filtered Connectors
## Front Mount Jam Nut Receptacle Dimensions
### 240-804-08

***Front Panel Jam Nut***
240-804-08

**DIMENSIONS**

| Shell Size | Ø A In. | Ø A mm. | B Threads | Ø C In. | Ø C mm. | Ø D In. | Ø D mm. | E Flat In. | E Flat mm. | Ø F Tail Dia. |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | .830 | 21.08 | .5000-32 UN-2A | .244 | 6.20 | .625 | 15.87 | .470 | 11.94 | **#23** .018/.022 (0.46/0.56) |
| 6 | .885 | 22.48 | .5625-28 UN-2A | .330 | 8.38 | .688 | 17.47 | .530 | 13.46 | |
| 7 | .995 | 25.27 | .6875-28 UN-2A | .432 | 10.97 | .812 | 20.62 | .663 | 16.84 | **#20** .024/.028 (0.61/0.71) |
| 8 | .995 | 25.27 | .6875-28 UN-2A | .493 | 12.52 | .812 | 20.62 | .663 | 16.84 | |
| 9 | 1.075 | 27.31 | .7500-28 UN-2A | .551 | 14.00 | .875 | 22.22 | .720 | 18.29 | **#16** .060/.064 (1.52/1.63) |
| 10 | 1.140 | 28.95 | .8125-28 UN-2A | .620 | 15.75 | .938 | 23.82 | .788 | 20.02 | |
| 12 | 1.340 | 34.04 | 1.0000-28 UN-2A | .703 | 17.86 | 1.125 | 28.57 | .970 | 24.64 | **#12** .092/.096 (2.34/2.44) |
| 14 | 1.390 | 35.31 | 1.0625-20 UN-2A | .863 | 21.92 | 1.188 | 30.18 | 1.020 | 25.91 | |
| 15 | 1.450 | 36.83 | 1.1250-28 UN-2A | .912 | 23.16 | 1.250 | 31.75 | 1.093 | 27.76 | |

**ALTERNATE KEY POSITIONS**

| Pos. | A° | B° |
|---|---|---|
| A | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

**STYLE 08 JAM NUT PANEL CUTOUT**

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| 5 | .480 | 12.19 | .510 | 12.95 |
| 6 | .540 | 13.72 | .575 | 14.61 |
| 7 | .674 | 17.12 | .698 | 17.73 |
| 8 | .674 | 17.12 | .698 | 17.73 |
| 9 | .730 | 18.54 | .760 | 19.30 |
| 10 | .799 | 20.29 | .822 | 20.88 |
| 12 | .980 | 24.89 | 1.010 | 25.65 |
| 14 | 1.030 | 26.16 | 1.075 | 27.31 |
| 15 | 1.103 | 28.02 | 1.135 | 28.83 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse EMI/EMP Filtered Connectors

## Ordering Information

***Series 805 Filtered Connectors*** feature triple-start ACME coupling threads. Available in ***Jam Nut*** and ***Square Flange*** versions, these environmentally sealed connectors offer aerospace filter performance in a miniaturized package.

*These connectors mate to standard Series 805 plugs.*

***Consult Factory*** *for Additional Filter Types, TVS Diodes, and other Custom Filter Connector Configurations.*

**240 - 805 - 02 M 8-7 P S P A A**

- **240** — **Filter Connector Product Code**
- **805** — **Series 805 Triple-Start**
- **02** — **Shell Style**
  - ***01*** - *Square Flange Receptacle with Solder Cup Contacts and Band Platform*
  - ***02*** - *Square Flange Receptacle with Printed Circuit Board Contacts*
  - ***07*** - *Jam Nut Receptacle with Solder Cup Contacts and Band Platform*
  - ***08*** - *Jam Nut Receptacle with Printed Circuit Board Contacts*
- **M** — **Connector Matl/Fin** (See Table I)
- **8-7** — **Insert Arrangement** (See Table III)
- **P** — **Contact Gender**
  - ***P*** - *Pin*
  - ***S*** - *Socket*
- **S** — **Contact Termination**
  - ***S*** - *Solder Cup (Shell Style 01 and 07 only)*
  - ***P*** - *PC Tail (Shell Style 02 and 08 only)*
- **P** — **Filter Type**
  - ***P*** - *Pi* ***C*** - *C*
- **A** — **Capacitance Code** (See Table II)
- **A** — **Alternate Key Position**
  - ***A, B, C, D, U***
  - *A = Normal U = Universal (Do not mate Universal with Universal Plug)*

**TABLE I: CONNECTOR MATERIAL AND FINISH**

| SYM | MATERIAL | FINISH |
|---|---|---|
| M | Aluminum | Electroless Nickel |
| MT | Aluminum | NI-PTFE 1000 Hour Grey (Nickel-Fluorocarbon Polymer) |
| NF | Aluminum | Cadmium O.D. Over Electroless Nickel |
| P | Stainless Steel | Electroless Nickel |
| ZN | Aluminum | Zinc-Nickel Over Electroless Nickel |

**TABLE II: CAPACITANCE CODE**

| CODE | PI - SECTION (pF) | C - SECTION (pF) |
|---|---|---|
| A | 38,000 - 56,000 | 19,000 - 28,000 |
| B | 32,000 - 45,000 | 16,000 - 22,500 |
| C | 18,000 - 33,000 | 9,000 - 16,500 |
| D | 8,000 - 12,000 | 4,000 - 6,000 |
| E | 3,300 - 5,000 | 1,650 - 2,500 |
| F | 800 - 1,300 | 400 - 650 |
| G | 400 - 600 | 200 - 300 |

Dimensions in inches (millimeters) and are subject to change without notice.

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E-Mail: sales@glenair.com

# Series 805 Mighty Mouse EMI/EMP Filtered Connectors
## Square Flange Receptacle Dimensions
### 240-805-07 and 240-805-08

***Solder Cup with Band Platform***
240-805-07

***Printed Circuit Board Contacts***
240-805-08

## DIMENSIONS

| Shell Size | Ø A In. | Ø A mm. | B In. | B mm. | C In. | C mm. | D Threads | Ø E In. | Ø E mm. | F Threads | Ø G |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | .760 | 19.30 | .535 | 13.59 | .730 | 18.54 | .5000-.1P-.3L-TS-2A | .413 | 10.49 | .5625-28 UN-2A | **#23** .018/.022 (0.46/0.56) |
| 9 | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .5625-.1P-.3L-TS-2A | .500 | 12.70 | .6875-28 UN-2A | |
| 10 | .880 | 22.35 | .661 | 16.79 | .850 | 21.59 | .6250-.1P-.3L-TS-2A | .530 | 13.46 | .6875-28 UN-2A | **#20** .024/.028 (0.61/0.71) |
| 11 | .955 | 24.26 | .721 | 18.31 | .925 | 23.50 | .6875-.1P-.3L-TS-2A | .610 | 15.49 | .7500-28 UN-2A | |
| 12 | 1.060 | 26.92 | .784 | 19.91 | 1.035 | 26.29 | .7500-.1P-.3L-TS-2A | .655 | 16.51 | .8125-28 UN-2A | |
| 15 | 1.203 | 30.56 | .970 | 24.64 | 1.173 | 29.79 | .9375-.1P-.3L-TS-2A | .746 | 18.95 | 1.0000-28 UN-2A | **#16** .060/.064 (1.52/1.63) |
| 18 | 1.389 | 35.28 | 1.147 | 29.13 | 1.359 | 34.52 | 1.1250-.1P-.3L-TS-2A | .871 | 22.12 | 1.1875-28 UN-2A | |
| 19 | 1.450 | 36.83 | 1.221 | 31.01 | 1.420 | 36.07 | 1.1875-.1P-.3L-TS-2A | .972 | 24.67 | 1.2500-28 UN-2A | **#12** .092/.096 (2.34/2.44) |
| 23 | 1.705 | 43.31 | 1.470 | 37.34 | 1.675 | 42.55 | 1.4375-.1P-.3L-TS-2A | 1.876 | 30.12 | 1.500-25 UN-2A | |

## PANEL CUTOUT FOR JAM NUT RECEPTACLE

| Shell Size | A Flat In. ± .002 | A Flat mm. ± 0.05 | Ø B In. ± .005 | Ø B mm. ± 0.13 |
|---|---|---|---|---|
| 8 | .543 | 13.79 | .572 | 14.53 |
| 9 | .669 | 16.99 | .698 | 17.73 |
| 10 | .669 | 16.99 | .698 | 17.73 |
| 11 | .729 | 18.51 | .760 | 19.30 |
| 12 | .792 | 20.12 | .822 | 20.88 |
| 15 | .978 | 24.84 | 1.010 | 25.65 |
| 18 | 1.155 | 29.34 | 1.198 | 30.43 |
| 19 | 1.231 | 31.27 | 1.260 | 32.00 |
| 23 | 1.480 | 37.59 | 1.510 | 38.35 |

## SERIES 805 KEY POSITIONS

| Key Position | Key Rotation A | Key Rotation B |
|---|---|---|
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 805 Mighty Mouse EMI/EMP Filtered Connectors
## Square Flange Receptacle Dimensions
### 240-805-01 and 240-805-02

***Solder Cup with Band Platform***
240-805-01

***Printed Circuit Board Contacts***
240-805-02

| DIMENSIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Shell Size | A | | B | | ØC | | ØD | | E Threads | Ø F | | Ø G |
| | In. | mm. | In. | mm. | In. | mm. | In. ± .003 | mm. ± .08 | | In. | mm. | |
| **8** | .850 | 21.59 | .660 | 16.76 | 1.150 | 29.21 | .094 | 2.39 | .5000-.1P-.3L-TS-2A | .413 | 10.49 | |
| **9** | .913 | 23.19 | .723 | 18.36 | 1.230 | 31.24 | .094 | 2.39 | .5625-.1P-.3L-TS-2A | .500 | 12.70 | **#23** .018/.022 (0.46/0.56) |
| **10** | .975 | 24.77 | .785 | 19.94 | 1.330 | 33.78 | .094 | 2.39 | .6250-.1P-.3L-TS-2A | .530 | 13.46 | |
| **11** | 1.039 | 26.39 | .848 | 21.54 | 1.410 | 35.81 | .094 | 2.39 | .6875-.1P-.3L-TS-2A | .610 | 15.49 | **#16** .060/.064 (1.52/1.63) |
| **12** | 1.099 | 27.91 | .909 | 23.09 | 1.500 | 38.10 | .094 | 2.39 | .7500-.1P-.3L-TS-2A | .655 | 16.51 | |
| **15** | 1.288 | 32.74 | 1.058 | 26.87 | 1.750 | 44.45 | .128 | 3.25 | .9375-.1P-.3L-TS-2A | .746 | 18.95 | |
| **18** | 1.475 | 37.47 | 1.255 | 31.88 | 2.000 | 50.80 | .128 | 3.25 | 1.1250-.1P-.3L-TS-2A | .871 | 22.12 | **#12** .092/.096 (2.34/2.44) |
| **19** | 1.537 | 39.04 | 1.327 | 33.71 | 2.094 | 53.19 | .128 | 3.25 | 1.1875-.1P-.3L-TS-2A | .972 | 24.67 | |
| **23** | 1.787 | 45.39 | 1.570 | 39.88 | 2.440 | 61.98 | .128 | 3.25 | 1.4375-.1P-.3L-TS-2A | 1.186 | 30.12 | |

| SERIES 805 KEY POSITIONS | | |
|---|---|---|
| Key Position | Key Rotation | |
| | A | B |
| Normal (A) | 150° | 210° |
| B | 75° | 210° |
| C | 95° | 230° |
| D | 140° | 275° |

Dimensions in inches (millimeters) and are subject to change without notice.

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**Mighty Mouse for 100BASE-T**
*compared to RJ-45 Plug in MIL-DTL-38999 Connector*

## PRODUCT FACTS

- **Compact Weight-Saving Design with size #23 Contacts**
- **USB 2.0, 100BASE-T, 1000BASE-T, IEEE 1394**
- **Environmentally Protected, Robust Construction**
- **Aerospace-Grade Cable Meets FAA FAR 25 Flammability**
- **Tactical-Grade Cable Meets Low-Toxicity Requirements**
- **Silver-Coated Copper Braid Shield With 95% Coverage over Aluminized Mylar Shield**
- **Threaded Coupling, Quick-Disconnect or Bayonet Mating**

# Glenair's Series 80 ASAP Cordsets for High Speed Ethernet, USB and Firewire Applications

High-reliability aerospace and defense systems have adopted commercial data protocols such as Ethernet and USB; however, commercial-grade connectors such as RJ-45 modular plugs are not suitable for airframe or tactical deployments where shielding, environmental protection, and mechanical robustness are prime considerations. The Mighty Mouse connector, because of it's compact size, ruggedness and in-stock availability, is widely deployed for 100BASE-T, 1000BASE-T and USB 2.0 applications on commercial air transport, military airframe, unmanned vehicles, and dismounted soldiers. This section of the Series 80 catalog provides ordering information  and technical information on Mighty Mouse cordsets for Ethernet and other high speed data applications. Thes ASAP cordsets in this section feature military-grade construction with the quickest delivery in the industry.

***Full-Duplex Ethernet Switch***
*with Glenair Series 801 4 Pin Receptacles and Glenair 38999 Fiber Optic Connectors*



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# Series 80 Mighty Mouse
# ASAP Cordsets for High Speed Serial Data
## Introduction

***100BASE-T Cordset***
with 4 Pin Series 800 Connector

Upgrade commercial high speed serial interconnects to mil-spec performance. Glenair's ASAP "Mighty Mouse" cordsets are available for 100BASE-T, Gigabit Ethernet, IEE 1394 and USB 2.0 applications. These cordsets combine aerospace-grade data cables with Series 80 "Mighty Mouse" harsh environment connectors for maximum performance and minimum size.

***FEP jackets*** meet FAA flammability requirements. Or, choose ***low smoke / zero halogen polyurethane jackets*** for mass transit or shipboard applications.

***Three strain relief options*** – Standard overmolded cables offer excellent strain-relief and cable sealing. Or, choose heatshrink boots for smallest form factor. If repairability and ruggedness are important, choose machined aluminum EMI backshells.

### Three reasons to specify Glenair Series 80 cordsets

**1** **Simplified Ordering**: No need to buy cable, connectors, termination tools and strain reliefs.

**2** **Guaranteed Performance**: All cordsets are 100% electrically tested.

**3** **Faster Delivery**: Cable and connector components are in stock.

## HOW TO ORDER CORDSETS

### Step 1: Select the Connector Series
Table1 lists the five types of Series 80 connectors. For more information on selecting a connector, please refer to the connector selection chart on the following page. This section does not contain ordering information for series 802 "Aqua Mouse" cordsets. Please contact Glenair for information on hazardous environment high pressure cables for the 802 Series.

### Step 2: Select the Cable
Table 2 contains specifications for standard data cables. The cable type also determines the connector layout. ***4 pin connectors are used for 4 wire cables, and 10 pin connectors are used for 8 wire cables.***

### Step 3: Select a Cable Jacket
Table 3 shows available jacket options. Choose FEP flourocarbon jackets for airframe and avionics applications, or choose low smoke/zero halogen polyurethane jackets for soldier systems, vehicles, and transit systems.

### Step 4: Select a Cable-To-Connector Interface
Table 3 provides three ways to attach the cable to the connector:
1. Polyamide boot, overmolded with flexible strain relief
2. Aluminum backshell, shielded, watertight and removable
3. Heat-shrink boot, low smoke/ zero halogen

### Step 5: Select a Connector Configuration
Table 1 shows connector codes for specifying plug versus receptacle and pin versus socket contacts. Add a plating code, keying option and length.



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# Series 80 Mighty Mouse
# ASAP Cordsets for High Speed Serial Data
## Connector Selection Guide

Glenair®

| CONNECTOR SELECTION GUIDE | Series 800 | Series 801 | Series 803 | Series 804 | Series 805 |
|---|---|---|---|---|---|
| | | | | | |
| **Description** | **UNF Threads** | **Double-Start ACME** | **¼ Turn Bayonet** | **Push-Pull** | **Triple-Start ACME** |
| **Notes** | A general purpose connector for Ethernet switches, tactical equipment and instrumentation. | More rugged keys and threads compared to Series 800. Faster mating, slightly larger than Series 800. | 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. |
| **Coupling** | Threaded Coupling with 4 ½ Turns to Full Mate | Threaded Coupling with 1 ½ Turns to Full Mate | Push-to-Mate, ¼ Turn to Lock | Quick-Disconnect with Canted Spring | One Full Turn for Full Mate |
| **Water Immersion** | MIL-STD-810 Method 512 1 Meter for 1 Hour | MIL-STD-810 Method 512 1 Meter for 1 Hour | Splashproof | MIL-STD-810 Method 512 1 Meter for 1 Hour | MIL-STD-810 Method 512 1 Meter for 1 Hour |
| **EMI Shielding** | Good | Good | Fair | Very Good | Excellent |
| **Vibration and 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 | 37 g's Random Vibration 300 g's Shock | 37 g's Random Vibration 300 g's Shock |
| **Mating Cycles** | 2000 Cycles | 2000 Cycles | 250 Cycles Aluminum 2000 Cycles SST | 2000 Cycles | 500 Cycles |
| **Proven Performance Applications** | Commercial air frame sensors; UAV telemetry; Tactical computers; field radios; | Military air frame; Dismounted soldier; Tactical ground weaponry; Avionic (FLIR) system | Soldier system radios; Autosport diagnostics; Airborne surveillance | Helmet breakaway connector; QDC battery; Missile applications; Weapon interconnect | Autosport; Military air frame; Joint Strike Fighter |

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# Series 80 Mighty Mouse
# ASAP Cordsets for High Speed Serial Data
## How To Order

### TABLE 1: HOW TO ORDER SERIES 80 CORDSETS FOR HIGH SPEED DATA

**Sample Part Number**

| 801-024 | B | F | P | A | C | M | P | Z | -72 |
|---|---|---|---|---|---|---|---|---|---|
| **Connector Series** | **Cable** | **Cable Jacket** | **Strain Relief** | **Connector End A P1** | **Connector End B P2** | **Shell Material / Finish** | **Protective Cover** | **Shell Pol. Pos.** | **OAL Length** |
| **800-035**<br>Series 800 Cordset, UNF Threaded Coupling, Hex Nut<br>**801-024**<br>Series 801 Cordset, Double-Start Threaded Coupling<br>**803-007**<br>Series 803 Cordset, Push-Pull With Bayonet Lock Coupling<br>**804-013**<br>Series 804 Cordset, Quick-Disconnect Push-Pull<br>**805-007**<br>Series 805 Cordset, Tri-Start Threaded Coupling with Ratchet and Ground Spring | **A**<br>100BASE-T Ethernet 4 Cond. UTP, OAL Shield 4 Pin Connector<br>**B**<br>100BASE-T Ethernet Quad, OAL Shield, 4 Pin Connector<br>**C**<br>1000BASE-T Gigabit Ethernet 8 Cond. UTP, OAL Shield, 10 Pin Connector<br>**D**<br>IEEE 1394 Hi-Speed Quad 110 Ohm, 4 Pin Connector<br>**E**<br>USB 2.0, Two #22 Power, One STP #26<br>**F**<br>Two STP, 100 Ohm, OAL Shield, 4 Pin Connector<br>**G**<br>Four STP, 100 Ohm, OAL Shield, 10 Pin Connector | **F**<br>FEP Flourocarbon Jacket, Translucent Blue<br>**P**<br>Low Smoke/ Zero Halogen Polyurethane Jacket, Black | **P**<br>Polyamide Overmold<br>**B**<br>Metal Backshell<br>**H**<br>Heat-Shrink Boot, Low Smoke/ Zero Halogen | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts | **A**<br>Plug, with Male Pin Contacts<br>**B**<br>Plug, with Female Socket Contacts<br>**C**<br>Receptacle, with Male Pin Contacts<br>**D**<br>Receptacle, with Female Socket Contacts<br>**N**<br>No Connector (Single-Ended) | **M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | **P**<br>Metal Protective Covers Included<br>**N**<br>No Covers Supplied | Polarizing position depends on the connector series.<br>For Series 800 and 803:<br>**N** Normal<br>**X** Pos. X<br>**Y** Pos. Y<br>**Z** Pos. Z<br>For Series 801 and 805:<br>**A** Normal<br>**B** Pos. B<br>**C** Pos. C<br>**D** Pos. D<br>For Series 804:<br>**Omit** for Single Master Key<br>**A** Normal<br>**B** Pos. B<br>**C** Pos. C<br>**D** Pos. D | Overall Length In Inches<br>12 Inch Min. |

Dimensions in inches (millimeters) and are subject to change without notice.

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## TABLE 2: CABLE SPECIFICATIONS

| | Cable Code | | | | | | |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G |
| **Cable Type** | 100BASE-T | 100BASE-T | 1000BASE-T | IEEE 1394 | USB 2.0 | 100 Ω STP | 100 Ω STP |
| **Construction** | UTP | Quad | UTP | Quad | STP | STP | STP |
| **Number of Pairs** | 2 | - | 4 | - | 1 | 2 | 4 |
| **Number of Conductors** | 4 | 4 | 8 | 4 | 4 | 4 | 8 |
| **Conductor AWG** | 24 | 24 | 24 | 24 | 26 & 22 | 26 | 26 |
| **Conductor Material** | SCCA | SCCA | SCCA | SCCA | SCCA | SCCA | SCCA |
| **Conductor Insulation** | FEP | FEP | FEP | FEP | FEP | FEP | FEP |
| **Inner Shield** | AM | AM | AM | AM | SCCB | AM | AM |
| **Outer Shield** | SCCB | SCCB | SCCB | SCCB | SCCB | SCCB | SCCB |
| **Shield Coverage** | 95% Min. | 95% Min. | 95% Min. | 95% | 95% | 95% | 95% |
| **Impedance** | 100 ± 10 Ω | 100 ± 10 Ω | 100 ± 10 Ω | 110 ± 7 Ω | 90 ± 13 Ω | 100 ± 10 Ω | 100 ± 10 Ω |
| **Capacitance (pF/ft.)** | 13.0 | 13.0 | 14.5 | 12.5 | 13.0 | 13.0 | 13.0 |
| **Propagation Velocity** | 80% | 80% | 70% | 80% | 70% | 80% | 80% |
| **Attenuation (dB/100 ft.) 10MHz** | 3.1 | 3.1 | 3.1 | 2.9 | | | |
| **Attenuation dB/100 ft.) 100 MHz** | 8.0 | 8.0 | 8.0 | 7.5 | | | |
| **Attenuation (dB/100 ft.) 500 MHz** | - | - | - | 15.5 | | | |
| **Attenuation (dB/100 ft.) 1GHz** | - | - | - | 22.5 | | | |
| **Near-End Crosstalk dB @10MHz** | 47 | 47 | 47.0 | 47.0 | | | |
| **Near-End Crosstalk dB @100MHz** | 32 | 32 | 32.0 | 32.0 | | | |
| **Dielectric Withstanding Voltage** | 1500 VAC | 1500 VAC | 1500 VAC | 1500 VAC | 1500 VAC | 1500 VAC | 1500 VAC |

**AM – Aluminum Mylar SCCA – Silver-Coated Copper Alloy SCCB – Silver-Coated Copper Braid.**
**Attenuation values are nominal. Crosstalk values are minimum.**

## TABLE 3: CABLE JACKET OPTIONS

| | Jacket Code | | | |
|---|---|---|---|---|
| | F | | P | |
| **Jacket Material** | Extruded FEP | | Low Smoke/ Zero Halogen Polyurethane | |
| **Typical Use** | Airframe, Avionics, Missile | | Dismounted Soldier,Shipboard, Armored Vehicle, Railcar | |
| **UL Rating** | 94 V-0 | | 94 V-0 | |
| **FAA Flammability** | FAR 25.853(a)<br>FAR 25.869(a)(4) | | FAR 25.853(a) | |
| **Temperature Range** | -55° to +200° C. | | -30 to +105° C. | |
| **Resistance to Solvents** | Excellent | | Excellent | |
| **Flexibility** | Good | | Excellent | |
| **Abrasion Resistance** | Excellent | | Excellent | |
| **Color** | Translucent Blue | | Black | |
| **Smoke Index NES 711** | | | 24 | |
| **Toxicity Index NES 713** | | | 3.9 | |
| **Oxygen Index ASTM D-2863** | 95% | | 28% | |
| **Overall Cable Diameter** | Cable Code | Diameter | Cable Code | Diameter |
| | A | .210 (5.33) | A | .238 (6.05) |
| | B | .175 (4.45 | B | .218 (5.54) |
| | C | .265 (6.73) | C | .311 (7.90) |
| | D | .190 (4.83) | D | .236 (5.99) |
| | E | .200 (5.08) | E | .250 (6.35) |
| | F | .250 (6.35) | F | .300 (7.62) |
| | G | .298 (7.57) | G | .344 (2.18) |

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# Series 80 Mighty Mouse
# ASAP Cordsets for High Speed Serial Data
## Strain Relief Specifications

| TABLE 4: CABLE-TO-CONNECTOR INTERFACE (STRAIN RELIEF) | | | |
|---|---|---|---|
| | **Strain Relief Code** | | |
| | **P** | **B** | **H** |
| | **Polyamide Overmold** | **Aluminum Backshell** | **Heat-Shrink Boot** |
| **Material** | Polyamide | 6061-T6 Aluminum | Polyolefin |
| **Max. Operating Temperature** | 105° C. | 150°C. | 105° C. |
| **Hardness** | 75 Shore A | N/A | |
| **Low temperature Brittle Point** | < -45°C. | N/A | <-55°C. |
| **Volume Resistivity** | >$10^{12}$ Ohms cm | N/A | |
| **Dielectric Strength** | >12 kV/mm | N/A | >12 kV/mm |
| **Flammability (UL 94)** | V0 Vertical Burn | N/A | V0 Vertical Burn |
| **Smoke Index (NES 711)** | <10 | N/A | 9.0 |
| **Toxicity Index (NES 713)** | <7 | N/A | 1.9 |
| **Resistance to Ozone** | Excellent | N/A | Excellent |
| **Oil Resistance** | Good | N/A | Good |
| **Polar Solvents (alcohol)** | Poor | N/A | Good |
| **Non-polar Solvents** | Good | N/A | Good |
| **Fuel Resistance** | Good | N/A | Fair |
| **Immersion** | 1 meter<br>MIL-STD-810 Method 512 | IP67 | 1 meter<br>MIL-STD-810 Method 512 |
| **Part Number** | (Not Sold Separately) | 390MS076 | 770-003 |



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# Series 80 Mighty Mouse
# ASAP Cordsets Dimensions
## Strain Relief Codes P, B and H

## ASAP CORDSET DIMENSIONS

### Strain relief Code P

**Polyamide Overmold**

### Strain relief Code B

**Metal Backshell**

### Strain relief Code H

**Heatshrink Boot**

## DIMENSIONS

| Cable Code | Type | Number of Connector Pins | A Max. | | B Max. | | C Max. | | D Max. | | E Max. | | F Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 2 Pair UTP 100 Ω | 4 | 2.500 | 63.50 | .560 | 14.22 | 2.100 | 53.34 | .530 | 13.46 | 1.600 | 40.64 | .470 | 11.94 |
| B | Quad 100 Ω | 4 | 2.500 | 63.50 | .560 | 14.22 | 2.100 | 53.34 | .530 | 13.46 | 1.600 | 40.64 | .470 | 11.94 |
| C | 4 Pair UTP 100 Ω | 10 | 2.500 | 63.50 | .680 | 17.27 | 2.100 | 53.34 | .600 | 15.24 | 1.600 | 40.64 | .580 | 14.73 |
| D | Quad 110 Ω | 4 | 2.500 | 63.50 | .560 | 14.22 | 2.100 | 53.34 | .530 | 13.46 | 1.600 | 40.64 | .470 | 11.94 |
| E | USB 90 Ω | 4 | 2.500 | 63.50 | .560 | 14.22 | 2.100 | 53.34 | .600 | 15.24 | 1.600 | 40.64 | .470 | 11.94 |
| F | 2 Pair STP 100 Ω | 4 | 2.500 | 63.50 | .560 | 14.22 | 2.100 | 53.34 | .600 | 15.24 | 1.600 | 40.64 | .470 | 11.94 |
| G | 4 Pair STP 100 Ω | 10 | 2.500 | 63.50 | .680 | 17.27 | 2.100 | 53.34 | .600 | 15.24 | 1.600 | 40.64 | .580 | 14.73 |

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# Series 80 "Mighty Mouse" ASAP Cordsets Wiring Schematics

## Type A, B and C Cables

## WIRING SCHEMATICS FOR TYPE A AND TYPE B CABLE

**WIRING DIAGRAM CABLE TYPE A 100BASE-T UTP**

Pin Connector Mating Face

Socket Connector Mating Face

**WIRING DIAGRAM CABLE TYPE B 100BASE-T QUAD**

## WIRING SCHEMATIC FOR TYPE C CABLE FOR GIGABIT ETHERNET APPLICATIONS

*10 Pin Connector for Gigabit Ethernet*

Pin Connector Mating Face

Socket Connector Mating Face

**WIRING DIAGRAM CABLE TYPE C 1000BASE-T UTP**

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## WIRING SCHEMATIC FOR TYPE D QUAD CABLE FOR IEEE 1394 APPLICATIONS

*4 Pin Connector for IEEE 1394*

Pin Connector Mating Face

Socket Connector Mating Face

**WIRING DIAGRAM CABLE TYPE D 1394 QUAD**

## WIRING SCHEMATIC FOR TYPE E CABLE FOR USB 2.0 APPLICATIONS

Pin Connector Mating Face

Socket Connector Mating Face

**WIRING DIAGRAM CABLE TYPE E USB 2.0**

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# Series 80 Mighty Mouse
# ASAP Cordsets Wiring Schematics
## Type F and G Cables

## WIRING SCHEMATIC FOR TYPE F CABLE FOR 100 OHM STP APPLICATIONS

**WIRING DIAGRAM**
**CABLE TYPE F**
**TW0 100 OHM SHIELDED TWISTED PAIRS WITH OVERALL SHIELD**

Pin Connector
Mating Face

Socket Connector
Mating Face

## WIRING SCHEMATIC FOR TYPE G CABLE FOR 100 OHM STP APPLICATIONS

**WIRING DIAGRAM**
**CABLE TYPE G**
**FOUR STP**

Pin Connector
Mating Face

Socket Connector
Mating Face

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## *Cordset, USB Type A Plug to Mighty Mouse Connector*

These USB 2.0 cordsets have a standard USB type A plug on one end and a ruggedized Mighty Mouse plug on the other end. Low smoke zero halogen cable is UL VW-1 rated. #22 AWG power leads provide maximum current and low resistance. #28 AWG twisted pair data leads help reduce crosstalk. Rugged flexible molded cable ends provide strain relief and ingress protection. 100% tested for continuity and insulation resistance.

### P1 PINOUTS

PIN CONNECTOR

SOCKET CONNECTOR

### OPTIONAL COVER

### WIRING DIAGRAM

### USB CABLE CONSTRUCTION

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse USB 2.0 Cordsets

## MIGHTY MOUSE TO USB TYPE A PLUG CORDSET

**Sample Part Number**

| 801-028 | A | ZNU | N | A | -72 |
|---|---|---|---|---|---|
| **Connector Series** | **Connector Type** | **Shell Material / Finish** | **Protective Cover** | **Shell Pol. Pos.** | **Overall Length** |
| <br>**800-036**<br>Series 800 Cordset, UNF Threaded Coupling, Hex Nut<br> <br>**801-028**<br>Series 801 Cordset, Double-Start Threaded Coupling<br> <br>**803-011**<br>Series 803 Cordset, Push-Pull With Bayonet Lock Coupling<br> <br>**804-016**<br>Series 804 Cordset, Quick-Disconnect Push-Pull<br> <br>**805-012**<br>Series 805 Cordset, Tri-Start Threaded Coupling with Ratchet and Ground Spring | **A**<br>Plug, with Male Pin Contacts<br><br>**B**<br>Plug, with Female Socket Contacts<br><br>**C**<br>Receptacle, with Male Pin Contacts<br><br>**D**<br>Receptacle, with Female Socket Contacts | **M**<br>Aluminum / Electroless Nickel<br><br>**NF**<br>Aluminum / Cadmium with Olive Drab<br><br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br><br>**MT**<br>Aluminum / Nickel-PTFE<br><br>**Z1**<br>Stainless Steel / Passivated | **P**<br>Metal Protective Cover, with Lanyard (for Mighty Mouse Connector)<br><br>**N**<br>No Covers Supplied | Polarizing position depends on the connector series.<br><br>**For Series 800 and 803:**<br>**N** (Normal), **X, Y or Z**<br><br>**For Series 801 and 805:**<br>**A** (Normal), **B, C, D**<br><br>**For Series 804:**<br>**Omit** (Leave Blank) for Single Master Key<br>**A** (Normal), **B, C, D** | Overall Length In Inches<br><br>**18**<br>**36**<br>**72**<br>**120** |

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## *Cordset, Cat 5e RJ-45 to Mighty Mouse Connector*

These Cat 5e cordsets have a standard shielded RJ-45 modular plug on one end and a ruggedized Mighty Mouse 10 pin plug on the other end. Low smoke zero halogen cable is UL VW-1 rated and RoHS compliant. Certified to TAI/EIA-568-B.2 . Cable has four #26 twisted pairs plus tinned copper braid shield. Mighty Mouse connector is overmolded with polyamide for strain relief and ingress protection. RJ-45 plug has molded snagless boot and 50 micrinches gold plating on contacts. 100% tested for continuity and insulation resistance. Operating temperature -20° C to +60° C.

### P1 PINOUTS

PIN CONNECTOR

SOCKET CONNECTOR

### OPTIONAL COVER

### WIRING DIAGRAM PER 568B

### RJ-45 MATERIALS AND FINISHES

| | |
|---|---|
| RJ-45 Housing | Polycarbonate, clear, UL94V-0 |
| RJ-45 Contacts | Phosphor bronze, 50 µInches gold over 100 µInches Ni plating |
| Cable Jacket | LSZH, black |
| RJ-45 Shield | Brass, nickel plated |
| RJ-45 Boot | LSZH thermoplastic |

### RJ-45 CABLE CONSTRUCTION

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# Series 80 Mighty Mouse
# Cat 5e Ethernet RJ-45 Cordsets

## MIGHTY MOUSE TO RJ-45 ETHERNET PLUG CORDSET

**Sample Part Number**

| 801-029 | B | MT | N | A | -36 |
|---|---|---|---|---|---|
| **Connector Series** | **Connector Type P1 Mighty Mouse** | **Shell Material / Finish P1 Mighty Mouse** | **Protective Cover P1** | **Shell Keying Position** | **Overall Length** |
| <br>**800-037**<br>Series 800 Cordset, UNF Threaded Coupling, Hex Nut<br> <br>**801-029**<br>Series 801 Cordset, Double-Start Threaded Coupling<br> <br>**803-012**<br>Series 803 Cordset, Push-Pull With Bayonet Lock Coupling<br> <br>**804-017**<br>Series 804 Cordset, Quick-Disconnect Push-Pull<br> <br>**805-013**<br>Series 805 Cordset, Tri-Start Threaded Coupling with Ratchet and Ground Spring | **A**<br>Plug, with Male Pin Contacts<br><br>**B**<br>Plug, with Female Socket Contacts<br><br>**C**<br>Receptacle, with Male Pin Contacts<br><br>**D**<br>Receptacle, with Female Socket Contacts | **M**<br>Aluminum / Electroless Nickel<br><br>**NF**<br>Aluminum / Cadmium with Olive Drab<br><br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br><br>**MT**<br>Aluminum / Nickel-PTFE<br><br>**Z1**<br>Stainless Steel / Passivated | **P**<br>Metal Protective Cover, with Lanyard (for Mighty Mouse Connector)<br><br>**N**<br>No Covers Supplied | Polarizing position depends on the connector series.<br><br>**For Series 800 and 803:**<br>**N** (Normal), **X, Y or Z**<br><br>**For Series 801 and 805:**<br>**A** (Normal), **B, C, D**<br><br>**For Series 804:**<br>**Omit** (Leave Blank) for Single Master Key<br>**A** (Normal), **B, C, D** | Overall Length In Inches<br><br>**18**<br>**36**<br>**72**<br>**120** |

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## SECTION L SERIES 80 ACCESSORY PRODUCT SELECTION GUIDE

***Heat Shrink Boots***
**Page L-3**

### Heat-Shrink Boots
These boots provide strain relief, environmental protection and fit all Series 80 connectors. Straight, 90°, 45°, Long Tail and USB versions.

***Hex Nuts***
**Page L-10**

### Hex Nuts
Mighty Mouse jam nut receptacles are supplied with low-profile spanner nuts. Optional hex nuts are available with safety wire holes.

***Flange Gaskets***
**Page L-11**

### Flange Gaskets
Die-cut flange gaskets provide panel sealing for flange mount receptacles. Available in fluorosilicone, Viton® and conductive fluorosilicone.

***O-Rings***
**Page L-14**

### Replacement O-rings
Replace lost or damaged O-rings. Available in fluorosilicone, EPDM and conductive fluorosilicone, these O-rings fit Mighty Mouse jam nut receptacles.

***Shorting Cap Backshell***
**Page L-16**

### Backshell for Shorting or Switching Applications
These direct coupled "shorting caps" are used to enclose jumper wires, resistors, or bussed wires.

***Strain Relief Clamps***
**Page L-18**

### Strain Relief Clamps
These low profile clamps provide strain relief for wire bundles. These clamps are specially designed to minimize size and weight.

***EMI Adapters***
**Page L-20**

### Thread-on EMI Adapters for *BAND-IT®* Shield Termination
Available with spin coupling or direct coupling, these adapters can be ordered in various diameters and lengths. Right angle and 45° versions are available.

***Environmental Backshells***
**Page L-24**

### Environmental Backshells
These backshells are reduced in size compared to standard Glenair Series 37 environmental backshells. Choose saddle clamp or compression nut.

***EMI Backshells***
**Page L-26**

### EMI Backshells
These backshells are reduced in size compared to standard Glenair Series 38 backshells. Choose saddle clamp or compression nut for strain relief.

***Environmental EMI Backshells***
**Page L-28**

### Environmental/ EMI Backshells
These backshells are reduced in size compared to standard Glenair Series 39 backshells. Cable shields are terminated with EMI rings.

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# Series 80 Mighty Mouse Backshells and Accessories

## Accessory Thread Information

## About Accessory Thread Sizes For Series 80 Connectors

*Series 80 Connectors* accept a variety of thread-on backshells and adapters. This section contains ordering information for these fittings, arranged by thread size.

*The Accessory Thread Table* below identifies the accessory thread sizes for each Series 80 product type. Find the correct accessory thread code from this table, and use this information to identify the correct accessory part number from the following pages.

*Some Mighty Mouse sizes are compatible with MIL-DTL- 38999 Series I/II accessories.* The table below lists the D38999 shell sizes which share the same threads with Series 80 connectors.

For example, any accessory which fits a 38999 Series II shell size 8 connector will also fit a Series 800 shell size 7 connector.

## How to Order a 38999 Accessory Compatible with Series 80 Connectors:

**1** *Find the Series 80 shell size and thread size in the Accessory Thread Table below.*

**2** *Find the corresponding 38999 shell size in the right hand column of the table.*

**3** *Find a suitable accessory in Glenair's catalog. Use connector designator "F" and the correct shell size from the table.*

## Accessory Thread Table

Find the correct accessory thread code from this table, and use this information to identify the correct accessory part number from the following pages. Series 802 "Aqua Mouse" connectors are intended for high pressure submersible applications. The accessories in this section are not recommended for use on Series 802 connectors. Contact Glenair for information on special heavy-duty stainless steel accessories for the Series 802.

| Accessory Thread | Size Code | Shell Size | | | | | |
|---|---|---|---|---|---|---|---|
| | | Series 800 | Series 801 | Series 803 | Series 804 | Series 805 | 38999 Series II |
| .2500-32 UNEF | 05 | 5 | 5 | 5 | 5 | | |
| .3125-32 UNEF | 06 | 6 | 6 | 6 | 6 | | |
| .3750-32 UNEF | 11 | | | | | 8 | |
| .4375-28 UNEF | 07 | 7 | 7 | 7 | 7 | 9 | 8 |
| .5000-28 UNEF | 08 | 8 | 8 | 8 | 8 | 10 | |
| .5625-24 UNEF | 09 | 9 | 9 | 9 | 9 | 11 | 10 |
| .6250-24 UNEF | 10 | 10 | 10 | 10 | 10 | 12 | |
| .6875-24 UNEF | 12 | 12 | 13 | 12 | 12 | | 12 |
| .7500-20 UNEF | 13 | | | | | 15 | |
| .9375-20 UNEF | 14 | | 16, 17 | 14, 15 | 14, 15 | 18, 19 | 16 |
| 1.1875-18 UNEF | 17 | | 21 | | | 23 | 20 |

## Using 38999 Series II Accessories with Series 80 Connectors- Some Examples

**1** *Using a Swing Arm backshell on a Mighty Mouse connector.*

Connector Part Number

**801-008-16M9-19PA**

Shell Size 9

Shell size 9 Series 801 corresponds to shell size 10 38999 Series II. Use Connector Designator "F" and shell size 10 in the part number:

Backshell Part Number

**319F064XO10**

**Connector Designator F**

**Shell Size 10**

**2** *Using a TAG® Ring backshell on a Mighty Mouse connector.*

Connector Part Number

**804-002-06NF14-55P**

Shell Size 14

Shell size 14 Series 804 corresponds to shell size 16 38999 Series II. Use Connector Designator "F" and shell size "16" in the part number:

Backshell Part Number

**400FS001NF1606L6**

**Connector Designator F**

**Shell Size 16**

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# Shrink Boots – Straight, Long Tail, 90°, 45° and USB for Series 80 Connectors

***LIPPED BOOT***

***Protect Your Cable Harness*** with heat-shrinkable boots. These easy-to-use boots provide excellent electrical, mechanical and environmental protection. Heating the boot causes the boot to shrink onto the connector and cable . An adhesive lining bonds the boot to the connector and cable and fills small gaps for a complete seal. Choose straight cable exit or right angle exit. These lipped boots attach directly to Series 80 Mighty Mouse HD connectors with integral band platform. After shrinking, the boot lip locks into groove. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils or Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required.

## Material Selection Guide

| Attribute | Type 1 High Performance Semi-Rigid Elastomer | Type 2 Zero Halogen Polyolefin | Type 9 Low-Temp Flexible Polyolefin – USB ONLY – |
|---|---|---|---|
| Continuous Operating Temp. | -75° to +150°C | -40° to +130°C | -40° to +100°C |
| Resistance to Fuels, Oils | Excellent | Very Good | Very Good |
| Low Toxicity, Zero Halogen | No | Yes | No |

## Type 1 High performance Elastomer

Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit most standard boot adapters for circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration. Standard Black color.

## Type 2 Zero halogen

Halogen-free polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. These Low Smoke/Zero Halogen (LSZH) boots fit most standard shrink boot adapters, including M85049 types along with Glenair Series 31 and Series 44 adapters. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Resistance to oils, fuels and solvents. The boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -40° C to +130° C. Standard Black color.

## Type 9 Low Temp Flexibile Polyolefin (Standard for USB)

Lipped Straight USB Shrink Boots are available only in Type 9 Flexibile Polyolefin which is designed for a low installation temperature of less than 80°C. Operating temperature range of -40° C to 100° C. Standard Black color.



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse Shrink Boots

## Boot Material Properties

## *Adhesive Lined Boot Material Properties*

Heat-shrink boots are not watertight unless equipped with factory-installed or user-installed adhesives. When heat is applied to the boot, the adhesive melts and fixes the boot to the adapter and cable jacket to provide the necessary sealing as well as mechanical strain-relief. Hot melt thermoplastic polyamide adhesive is compatible with most cable jackets, economical and easy to install.

**Shrink Boot Typical Material Properties**

| Property | Type 1 High Performance Elastomer | Type 2 Zero Halogen Polyolefin | Type 9* Low Temperature Flexible Polyolefin |
|---|---|---|---|
| Flexibility | Semi-rigid | Semi-flexible | Flexible |
| Operating Temperature Range | -75°C to +150°C | -40°C to +130°C | -40°C to +100°C |
| Shrink Temperature (min.) | 135°C | 135°C | <80°C |
| Tensile Strength (psi) | 1700 | 1100 | 1740 |
| Elongation (% min.) | 400 | 250 | 500 |
| Long Term Heat Aging | 3000 hrs, 150°C | 3000 hrs, 135°C | 168 hrs, 150°C |
| Heat Shock | 4 hrs, 215°C | 4 hrs, 215°C | 4 hrs, 160°C |
| Heat Aging | 168 hrs, 160°C | 168 hrs, 160°C | 168 hrs, 160°C |
| Dielectric Strength (V/mil) | 300 | 380 | 10 M |
| Volume Resistivity (ohms-cm) | $10^{13}$ | $10^{12}$ | $10^{12}$ |
| Water Absorption (%) | 0.5 | 0.5 | 0.5 |
| Flammability | Burn Time <15 sec Burn Length <25mm | Burn Time <15 sec Burn Length <25mm | Burn Time <120 sec Burn Length <25mm |
| RoHS Compliant | Yes | Yes | Yes |
| Oxygen Index (% min.) | N/A | 30 | N/A |
| Temperature Index (°C) | N/A | 250 | N/A |
| Smoke Index (max.) | N/A | 20 | N/A |
| Toxicity Index (max.) | N/A | 3 | N/A |

***Note: Type 9 Low-Temp Flexible Polyolefin is the standard material for the USB Shrink Boot.***

**Shrink Boot Fluid Resistance**

| Fluid | Type 1 High Performance Elastomer | Type 2 Zero Halogen Polyolefin |
|---|---|---|
| Lubricating Oil | Very good | Good |
| Hydraulic Fluid | Very Good | Good |
| Aviation Fuel | Very Good | Good |
| Gasoline | Very Good | Fair |
| De-Icing Fluid | Excellent | Very Good |
| Automotive Diesel | Good | Fair |

**W1 and W2 Adhesive Properties**

| Attribute | W1 Standard High Temperature Hot Melt Adhesive (All Boots Except USB) | W2 Standard Hot Melt Adhesive For USB Type 9 Boots Only |
|---|---|---|
| Boot Material Compatibility | Type 1 and 2 | Type 9 Only |
| Continuous Operating Temp. | -55° to +125°C | -40° to +80°C |
| Resistance to Fuels, Oils & Fluids | Good | Good |
| Low Toxicity, Zero Halogen | Yes | Yes |

**Material Color Options for Type 1 High Performance Elastomer Only**
**Add Optional Color Mod Code to End of Any Type 1 Material Part Number**

| Mod Code | Color | Similar to (Reference) | Mod Code | Color | Similar to (Reference) |
|---|---|---|---|---|---|
| 632 B | Blue | PANTONE 3005U | 632 R | Red | PANTONE 1797U |
| 632 E | Grey | FED-STD-595; #36270 | 632 T | Tan | FED-STD-595; #33446 |
| 632 G | Green | PANTONE 355U | 632 W | White | FED-STD-595; #37875 |
| 632 P | Purple | FED-STD-595; #37100 | 632 Y | Yellow | PANTONE YELLOW U |
| 632 O | Orange | FED-STD-595; #32300 | Standard | Black | FED-STD-595; #37038 |



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## Lipped Straight Shrink Boots- Type I High Performance Elastomer

- *-75° C to +150° C*
- *Excellent resistance to fuels, oils, solvents and heat.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809S060-1 |
| 2 | 7 | 9 | 809S060-2 |
| 3 | 8, 9 | 10, 11 | 809S060-3 |
| 4 | 10, 12, 13 | 12, 15 | 809S060-4 |
| 5 | 14, 15, 16, 17 | 18, 19 | 809S060-5 |
| 6 | 21 | 23 | 809S060-6 |

## Lipped Straight Shrink Boots- Type 2 Zero Halogen

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809S060-1H |
| 2 | 7 | 9 | 809S060-2H |
| 3 | 8, 9 | 10, 11 | 809S060-3H |
| 4 | 10, 12, 13 | 12, 15 | 809S060-4H |
| 5 | 14, 15, 16, 17 | 18, 19 | 809S060-5H |
| 6 | 21 | 23 | 809S060-6H |

## Lipped 90° Right Angle Shrink Boots- Type I High Performance Elastomer

- *-75° C to +150° C*
- *Excellent resistance to fuels, oils, solvents and heat.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809A060-1 |
| 2 | 7 | 9 | 809A060-2 |
| 3 | 8, 9 | 10, 11 | 809A060-3 |
| 4 | 10, 12, 13 | 12, 15 | 809A060-4 |
| 5 | 14, 15, 16, 17 | 18, 19 | 809A060-5 |
| 6 | 21 | 23 | 809A060-6 |

## Lipped 90° Right Angle Shrink Boots- Type 2 Zero Halogen

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809A060-1H |
| 2 | 7 | 9 | 809A060-2H |
| 3 | 8, 9 | 10, 11 | 809A060-3H |
| 4 | 10, 12, 13 | 12, 15 | 809A060-4H |
| 5 | 14, 15, 16, 17 | 18, 19 | 809A060-5H |
| 6 | 21 | 23 | 809A060-6H |

## Lipped 45° Angle Shrink Boots- Type I High Performance Elastomer

- *-75° C to +150° C*
- *Excellent resistance to fuels, oils, solvents and heat.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809B060-1 |
| 2 | 7 | 9 | 809B060-2 |
| 3 | 8, 9 | 10, 11 | 809B060-3 |
| 4 | 10, 12, 13 | 12, 15 | 809B060-4 |
| 5 | 14, 15, 16, 17 | 18, 19 | 809B060-5 |
| 6 | 21 | 23 | 809B060-6 |

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# Series 80 Mighty Mouse Backshells and Accessories

## 809B060, 809SL060 and 809SU060 Shrink Boots

## *Lipped 45° Angle Shrink Boots- Type 2 Zero Halogen*

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809B060-1H |
| 2 | 7 | 9 | 809B060-2H |
| 3 | 8, 9 | 10, 11 | 809B060-3H |
| 4 | 10, 12, 13 | 12, 15 | 809B060-4H |
| 5 | 14, 15, 16, 17 | 18, 19 | 809B060-5H |
| 6 | 21 | 23 | 809B060-6H |

## *Lipped Straight Long Tail Shrink Boots- Type I High Performance Elastomer*

- *-75° C to +150° C*
- *Excellent resistance to fuels, oils, solvents and heat.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809SL060-1 |
| 2 | 7 | 9 | 809SL060-2 |
| 3 | 8/9 | 10/11 | 809SL060-3 |
| 4 | 10/12/13 | 12/15 | 809SL060-4 |

## *Lipped Straight Long Tail Shrink Boots- Type 2 Zero Halogen*

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

| Boot Size | Shell Size | | Part Number |
|---|---|---|---|
| | Series 800, 801, 802, 803, 804 | Series 805 | Pre-Coated with *W1* Hi-Temp Hot-Melt Adhesive |
| 1 | 5/6 | 8 | 809SL060-1H |
| 2 | 7 | 9 | 809SL060-2H |
| 3 | 8/9 | 10/11 | 809SL060-3H |
| 4 | 10/12/13 | 12/15 | 809SL060-4H |

## *Lipped Straight USB Shrink Boots- Type 9 Low-Temp Flexible Polyolefin*

- *-40° C to +100° C*
- *Same excellent physical properties within a limited temperature range.*

| Boot Size | Shell Size | Part Number |
|---|---|---|
| | Series 801, 804, 805 | Pre-Coated with *W2* Hot-Melt Adhesive |
| 1 | 7, 8 | 809SU060-1 |



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## Lipped Straight Shrink Boots- Dimensions

AS SUPPLIED
(EXPANDED)

AFTER SHRINKING
(FULLY RECOVERED)

| Boot Size | A Min. | | B Min. | | C Max. | | D Ref. | | E Max. | | F Ref. | | H Ref. | | Cable Range | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Maximum | | Minimum | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 1 | .390 | 9.91 | .390 | 9.91 | .260 | 6.60 | 1.370 | 34.80 | .080 | 2.03 | .030 | 0.76 | .750 | 19.05 | .230 | 5.84 | .100 | 2.54 |
| 2 | .669 | 16.99 | .669 | 16.99 | .300 | 7.62 | 1.500 | 38.10 | .140 | 3.56 | .032 | 0.81 | .750 | 19.05 | .500 | 12.70 | .170 | 4.32 |
| 3 | .945 | 24.00 | .945 | 24.00 | .390 | 9.91 | 1.500 | 38.1 | .200 | 5.08 | .035 | 0.89 | .750 | 19.05 | .800 | 20.32 | .240 | 6.10 |
| 4 | 1.181 | 30.00 | 1.181 | 30.00 | .550 | 13.97 | 2.170 | 55.12 | .240 | 6.10 | .039 | 0.99 | 1.180 | 29.97 | 1.020 | 25.91 | .280 | 7.11 |
| 5 | 1.260 | 32.00 | 1.260 | 32.00 | .710 | 18.03 | 2.640 | 67.06 | .280 | 7.11 | .039 | 0.99 | 1.300 | 33.02 | 1.120 | 28.45 | .300 | 7.62 |
| 6 | 1.417 | 35.99 | 1.417 | 35.99 | .900 | 9.91 | 3.150 | 80.01 | .330 | 8.38 | .047 | 1.19 | 1.570 | 39.88 | 1.200 | 30.48 | .350 | 8.89 |

## Lipped 90° Right Angle Shrink Boots- Dimensions

AS SUPPLIED
(EXPANDED)

AFTER SHRINKING
(FULLY RECOVERED)

| Boot Size | A Min. | | B Min. | | C Max. | | D Ref. | | E Max. | | F Ref. | | G Ref. | | Cable Range | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Maximum | | Minimum | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 1 | .390 | 9.91 | .390 | 9.91 | .260 | 6.60 | .790 | 20.07 | .095 | 2.41 | .032 | 0.81 | .750 | 19.05 | .230 | 5.84 | .100 | 2.54 |
| 2 | .669 | 16.99 | .669 | 16.99 | .310 | 7.87 | .790 | 20.07 | .140 | 3.56 | .032 | 0.81 | .790 | 20.07 | .500 | 12.70 | .170 | 4.32 |
| 3 | .945 | 24.00 | .945 | 24.00 | .390 | 9.91 | .980 | 24.89 | .200 | 5.08 | .040 | 1.02 | .980 | 24.89 | .800 | 20.32 | .240 | 6.10 |
| 4 | 1.181 | 30.00 | 1.181 | 30.00 | .530 | 13.46 | 1.060 | 26.92 | .220 | 5.59 | .046 | 1.17 | 1.260 | 32.00 | 1.020 | 25.91 | .270 | 6.86 |
| 5 | 1.260 | 32.00 | 1.260 | 32.00 | .710 | 18.03 | 1.260 | 32.00 | .280 | 7.11 | .052 | 1.32 | 1.540 | 39.12 | 1.120 | 28.45 | .300 | 7.62 |
| 6 | 1.417 | 35.99 | 1.417 | 35.99 | .900 | 9.91 | 1.500 | 38.10 | .330 | 8.38 | .052 | 1.32 | 1.930 | 49.02 | 1.200 | 30.48 | .350 | 8.89 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse Backshells and Accessories

## 809B060, 809SL060 Shrink Boots

## *Lipped 45° Angle Shrink Boots- Dimensions*

| Boot Size | A Min. | | B Min. | | C Max. | | D Ref | | E Max. | | F Ref. | | G Ref. | | Cable Range | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | Max. In. | Max. mm. | Min. In. | Min. mm. |
| 1 | .390 | 9.9 | .390 | 9.9 | .260 | 6.60 | .600 | 15.24 | .080 | 2.03 | .030 | 0.76 | .560 | 14.22 | .230 | 5.84 | .100 | 2.54 |
| 2 | .669 | 17.0 | .669 | 17.0 | .300 | 7.62 | .640 | 16.26 | .140 | 3.56 | .035 | 0.89 | .620 | 15.75 | .500 | 12.70 | .170 | 4.32 |
| 3 | .945 | 24.0 | .945 | 24.0 | .390 | 9.91 | .500 | 12.7 | .160 | 4.06 | .040 | 1.02 | .750 | 19.05 | .800 | 20.32 | .240 | 6.10 |
| 4 | 1.181 | 30.0 | 1.181 | 30.0 | .550 | 13.97 | .748 | 19.00 | .230 | 5.84 | .043 | 1.09 | 1.180 | 29.97 | 1.020 | 25.91 | .280 | 7.11 |
| 5 | 1.260 | 32.0 | 1.260 | 32.0 | .710 | 18.03 | .984 | 24.99 | .280 | 7.11 | .065 | 1.65 | 1.380 | 35.05 | 1.120 | 28.45 | .300 | 7.62 |
| 6 | 1.417 | 35.99 | 1.417 | 35.99 | .900 | 22.86 | 1.260 | 32.00 | .330 | 8.38 | .065 | 1.65 | 1.570 | 39.88 | 1.200 | 30.48 | .350 | 8.89 |

## *Lipped Straight Long Tail Shrink Boots- Dimensions*

| Boot Size | A Min. | | B Min. | | C Max. | | D Ref | | E Max. | | F Ref. | | H Ref. | | Cable Range | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | Max. In. | Max. mm. | Min. In. | Min. mm. |
| 1 | .390 | 9.9 | .390 | 9.9 | .280 | 7.11 | 2.500 | 63.50 | .080 | 2.03 | .045 | 1.14 | .750 | 19.05 | .230 | 5.84 | .100 | 2.54 |
| 2 | .669 | 17.0 | .669 | 17.0 | .310 | 7.87 | 2.500 | 63.50 | .140 | 3.56 | .045 | 1.14 | .750 | 19.05 | .500 | 12.70 | .170 | 4.32 |
| 3 | .945 | 24.0 | .945 | 24.0 | .390 | 9.91 | 2.500 | 63.50 | .200 | 5.08 | .045 | 1.14 | .750 | 19.05 | .800 | 20.32 | .240 | 6.10 |
| 4 | 1.181 | 30.0 | 1.181 | 30.0 | .550 | 13.97 | 3.000 | 76.20 | .240 | 6.10 | .045 | 1.14 | 1.180 | 29.97 | 1.020 | 25.91 | .280 | 7.11 |

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## *Lipped Straight USB Shrink Boots- Dimensions*

AS SUPPLIED
(EXPANDED)

AFTER SHRINKING
(FULLY RECOVERED)

| Boot Size | A Min. | | B Min. | | C Max. | | D Ref | | E Max. | | F Ref. | | H Ref. | | Cable Range | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | Max. In. | Max. mm. | Min. In. | Min. mm. |
| 1 | .550 | 13.97 | .360 | 9.14 | .330 | 8.38 | 2.000 | 50.80 | .090 | 2.29 | .055 | 1.40 | 1.130 | 28.70 | .250 | 6.35 | .090 | 2.29 |



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# Series 80 Mighty Mouse Backshells and Accessories

## Hex Nuts 809-035

## Hex Jam Nuts for Mighty Mouse Receptacles

Replace low-profile spanner-style jam nuts with hex nuts for applications where jam nuts must be safety-wired to prevent loosening. These hex nuts fit all standard Series 80 jam nut receptacles except for Series 803 bayonet-coupling versions. Use Glenair Modification Code 501 to specify hex nuts to be supplied with connector.

| Thread Size Class 2B | Part Number | | | | | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Aluminum | | | | Stainless Steel | | A Hex | | B Dia. | |
| | Electroless Nickel | Olive Drab Cadmium | Black Zinc Nickel | Nickel-PTFE | Passivated | Black Zinc-Cobalt | In. | mm. | In. | mm. |
| .2500-32 UNEF | 809-035M01W | 809-035NF01W | 809-035ZNU01W | 809-035MT01W | 809-035Z101W | 809-035ZC01W | .375 | 9.53 | .403 | 10.24 |
| .3125-28 UN | 809-035M02W | 809-035NF02W | 809-035ZNU02W | 809-035MT02W | 809-035Z102W | 809-035ZC02W | .4375 | 11.11 | .475 | 12.07 |
| .3125-32 UNEF | 809-035M03W | 809-035NF03W | 809-035ZNU03W | 809-035MT03W | 809-035Z103W | 809-035ZC03W | .4375 | 11.11 | .475 | 12.07 |
| .3750-28 UN | 809-035M04W | 809-035NF04W | 809-035ZNU04W | 809-035MT04W | 809-035Z104W | 809-035ZC04W | .500 | 12.70 | .547 | 13.89 |
| .4375-28 UNEF | 809-035M05W | 809-035NF05W | 809-035ZNU05W | 809-035MT05W | 809-035Z105W | 809-035ZC05W | .5625 | 14.29 | .620 | 15.75 |
| .5625-24 UNEF | 809-035M06W | 809-035NF06W | 809-035ZNU06W | 809-035MT06W | 809-035Z106W | 809-035ZC06W | .6875 | 17.46 | .755 | 19.18 |
| .5625-28 UNEF | 809-035M16W | 809-035NF16W | 809-035ZNU16W | 809-035MT16W | 809-035Z116W | 809-035ZC16W | .6875 | 17.46 | .755 | 19.18 |
| .5625-32 UN | 809-035M07W | 809-035NF07W | 809-035ZNU07W | 809-035MT07W | 809-035Z107W | 809-035ZC07W | .6875 | 17.46 | .755 | 19.18 |
| .6250-28 UN | 809-035M08W | 809-035NF08W | 809-035ZNU08W | 809-035MT08W | 809-035Z108W | 809-035ZC08W | .750 | 19.05 | .830 | 21.08 |
| .6875-28 UN | 809-035M09W | 809-035NF09W | 809-035ZNU09W | 809-035MT09W | 809-035Z109W | 809-035ZC09W | .8125 | 20.64 | .898 | 22.81 |
| .7500-28 UN | 809-035M10W | 809-035NF10W | 809-035ZNU10W | 809-035MT10W | 809-035Z110W | 809-035ZC10W | .875 | 22.23 | .970 | 24.64 |
| .8125-28 UN | 809-035M17W | 809-035NF17W | 809-035ZNU17W | 809-035MT17W | 809-035Z117W | 809-035ZC17W | .9375 | 23.81 | 1.030 | 26.16 |
| .8750-28 UN | 809-035M11W | 809-035NF11W | 809-035ZNU11W | 809-035MT11W | 809-035Z111W | 809-035ZC11W | 1.000 | 25.40 | 1.078 | 27.38 |
| .9375-20 UNEF | 809-035M12W | 809-035NF12W | 809-035ZNU12W | 809-035MT12W | 809-035Z112W | 809-035ZC12W | 1.0625 | 26.99 | 1.187 | 30.15 |
| .9375-28 UN | 809-035M13W | 809-035NF13W | 809-035ZNU13W | 809-035MT13W | 809-035Z113W | 809-035ZC13W | 1.0625 | 26.99 | 1.187 | 30.15 |
| 1.0000-28 UN | 809-035M18W | 809-035NF18W | 809-035ZNU18W | 809-035MT18W | 809-035Z118W | 809-035ZC18W | 1.125 | 28.58 | 1.200 | 30.48 |
| 1.0625-20 UN | 809-035M14W | 809-035NF14W | 809-035ZNU14W | 809-035MT14W | 809-035Z114W | 809-035ZC14W | 1.1875 | 30.16 | 1.264 | 32.11 |
| 1.1250-28 UN | 809-035M15W | 809-035NF15W | 809-035ZNU15W | 809-035MT15W | 809-035Z115W | 809-035ZC15W | 1.250 | 31.75 | 1.325 | 33.66 |
| 1.1875-28 UN | 809-035M19W | 809-035NF19W | 809-035ZNU19W | 809-035MT19W | 809-035Z119W | 809-035ZC19W | 1.3125 | 33.34 | 1.415 | 35.94 |
| 1.2500-28 UN | 809-035M20W | 809-035NF20W | 809-035ZNU20W | 809-035MT20W | 809-035Z120W | 809-035ZC20W | 1.375 | 34.93 | 1.490 | 37.85 |
| 1.5000-28 UN | 809-035M21W | 809-035NF21W | 809-035ZNU21W | 809-035MT21W | 809-035Z121W | 809-035ZC21W | 1.625 | 41.28 | 1.750 | 44.45 |

Dimensions in inches (millimeters) and are subject to change without notice.

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## Flange Gaskets for Series 800 Mighty Mouse Receptacles

These flange gaskets provide sealing between square flange receptacles and the mounting panel. Choose fluorosilicone, Viton®, or conductive fluorosilicone material (Chomerics 1298 silver-filled). Gaskets are .032" (0.8) thick.

| Shell Size | Part Number | | | Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fluorosilicone | Viton® | Conductive Fluorosilicone | A Bsc. | | B Dia. | | C Typ. | | D Dia. | | E Rad. | |
| | | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 5 | 809-108F01 | 809-108V01 | 809-108X01 | .363 | 9.22 | .342 | 8.69 | .527 | 13.39 | .093 | 2.36 | .078 | 1.98 |
| 6 | 809-108F02 | 809-108V02 | 809-108X02 | .423 | 10.74 | .405 | 10.29 | .588 | 14.94 | .093 | 2.36 | .078 | 1.98 |
| 7 | 809-108F03 | 809-108V03 | 809-108X03 | .483 | 12.27 | .467 | 11.86 | .650 | 16.51 | .125 | 3.18 | .078 | 1.98 |
| 8 | 809-108F04 | 809-108V04 | 809-108X04 | .542 | 13.77 | .530 | 13.46 | .709 | 18.01 | .125 | 3.18 | .078 | 1.98 |
| 9 | 809-108F05 | 809-108V05 | 809-108X05 | .719 | 18.26 | .593 | 15.06 | .938 | 23.83 | .125 | 3.18 | .105 | 2.67 |
| 10 | 809-108F06 | 809-108V06 | 809-108X06 | .719 | 18.26 | .655 | 16.64 | .938 | 23.83 | .125 | 3.18 | .105 | 2.67 |
| 12 | 809-108F07 | 809-108V07 | 809-108X07 | .812 | 20.62 | .780 | 19.81 | 1.031 | 26.19 | .125 | 3.18 | .105 | 2.67 |

## Flange Gaskets for Series 801 Mighty Mouse Receptacles

These flange gaskets provide sealing between square flange receptacles and the mounting panel. Choose fluorosilicone, Viton®, or conductive fluorosilicone material (Chomerics 1298 silver-filled). Gaskets are .032" (0.8) thick.

| Shell Size | Part Number | | | Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fluorosilicone | Viton® | Conductive Fluorosilicone | A Bsc. | | B Dia. | | C Typ. | | D Dia. | | E Rad. | |
| | | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 5 | 809-108F11 | 809-108V11 | 809-108X11 | .363 | 9.22 | .342 | 8.69 | .530 | 13.46 | .093 | 2.36 | .078 | 1.98 |
| 6 | 809-108F12 | 809-108V12 | 809-108X12 | .423 | 10.74 | .405 | 10.29 | .590 | 14.99 | .093 | 2.36 | .078 | 1.98 |
| 7 | 809-108F13 | 809-108V13 | 809-108X13 | .483 | 12.27 | .467 | 11.86 | .650 | 16.51 | .093 | 2.36 | .078 | 1.98 |
| 8 | 809-108F14 | 809-108V14 | 809-108X14 | .545 | 13.84 | .530 | 13.46 | .712 | 18.08 | .093 | 2.36 | .078 | 1.98 |
| 9 | 809-108F16 | 809-108V16 | 809-108X16 | .607 | 15.42 | .560 | 14.22 | .850 | 21.59 | .125 | 3.18 | .105 | 2.67 |
| 10 | 809-108F15 | 809-108V15 | 809-108X15 | .670 | 17.02 | .655 | 16.64 | .890 | 22.61 | .125 | 3.18 | .105 | 2.67 |
| 13 | 809-108F17 | 809-108V17 | 809-108X17 | .812 | 20.62 | .842 | 21.39 | 1.030 | 26.16 | .125 | 3.18 | .105 | 2.67 |
| 16 | 809-108F18 | 809-108V18 | 809-108X18 | .607 | 15.42 | 1.030 | 26.16 | 1.219 | 30.96 | .125 | 3.18 | .105 | 2.67 |
| 17 | 809-108F19 | 809-108V19 | 809-108X19 | .812 | 20.62 | 1.092 | 27.74 | 1.280 | 32.51 | .125 | 3.18 | .105 | 2.67 |
| 21 | 809-108F43 | 809-108V43 | 809-108X43 | 1.322 | 33.58 | 1.332 | 33.83 | 1.570 | 39.88 | .125 | 3.18 | .105 | 2.67 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse Backshells and Accessories

## Flange Gaskets 809-108

## Flange Gaskets for Series 802 Mighty Mouse Receptacles

These flange gaskets provide sealing between square flange receptacles and the mounting panel. Choose fluorosilicone, Viton, or neoprene material. Gaskets are .032" (0.8) thick.

| Shell Size | Part Number | | | Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A Bsc. | | B Dia. | | C Typ. | | D Dia. | | E Rad. | |
| | Fluorosilicone | Viton® | Neoprene | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 5 | 809-108F51 | 809-108V51 | 809-108N51 | .500 | 12.70 | .448 | 11.38 | .885 | 22.48 | .125 | 3.18 | .105 | 2.67 |
| 6 | 809-108F52 | 809-108V52 | 809-108N52 | .625 | 15.88 | .572 | 14.53 | 1.010 | 25.65 | .125 | 3.18 | .105 | 2.67 |
| 7 | 809-108F53 | 809-108V53 | 809-108N53 | .688 | 17.48 | .635 | 16.13 | 1.072 | 27.23 | .125 | 3.18 | .105 | 2.67 |
| 8 | 809-108F54 | 809-108V54 | 809-108N54 | .750 | 19.05 | .698 | 17.73 | 1.135 | 28.83 | .125 | 3.18 | .105 | 2.67 |
| 9 | 809-108F55 | 809-108V55 | 809-108N55 | .812 | 20.62 | .760 | 19.30 | 1.195 | 30.35 | .125 | 3.18 | .105 | 2.67 |
| 10 | 809-108F56 | 809-108V56 | 809-108N56 | .875 | 22.23 | .822 | 20.88 | 1.260 | 32.00 | .125 | 3.18 | .105 | 2.67 |
| 12 | 809-108F57 | 809-108V57 | 809-108N57 | .938 | 23.83 | .885 | 22.48 | 1.323 | 33.60 | .125 | 3.18 | .105 | 2.67 |
| 14 | 809-108F58 | 809-108V58 | 809-108N58 | 1.125 | 28.58 | 1.072 | 27.23 | 1.510 | 38.35 | .125 | 3.18 | .105 | 2.67 |
| 15 | 809-108F59 | 809-108V59 | 809-108N59 | 1.188 | 30.18 | 1.135 | 28.83 | 1.573 | 39.95 | .125 | 3.18 | .105 | 2.67 |
| 21 | 809-108F60 | 809-108V60 | 809-108N60 | 1.375 | 34.93 | 1.448 | 36.78 | 1.760 | 44.70 | .125 | 3.18 | .105 | 2.67 |

## Flange Gaskets for Series 803 Mighty Mouse Receptacles

These flange gaskets provide sealing between elliptical flange receptacles and the mounting panel. Choose fluorosilicone, Viton®, or conductive fluorosilicone material (Chomerics 1298 silver-filled). Gaskets are .032" (0.8) thick.

| Shell Size | Part Number | | | Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Conductive | A Bsc. | | B Dia. | | C Max. | | D Ref. | |
| | Fluorosilicone | Viton® | Fluorosilicone | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 5 | 809-108F31 | 809-108V31 | 809-108X31 | .513 | 13.03 | .345 | 8.00 | .710 | 18.03 | .460 | 11.68 |
| 6 | 809-108F32 | 809-108V32 | 809-108X32 | .598 | 15.19 | .405 | 10.29 | .795 | 20.19 | .522 | 13.26 |
| 7 | 809-108F33 | 809-108V33 | 809-108X33 | .708 | 17.98 | .475 | 12.07 | .900 | 22.86 | .590 | 14.99 |
| 8 | 809-108F34 | 809-108V34 | 809-108X34 | .964 | 24.51 | .545 | 13.84 | 1.160 | 29.46 | .670 | 17.02 |
| 9 | 809-108F35 | 809-108V35 | 809-108X35 | 1.017 | 25.83 | .605 | 15.37 | 1.215 | 30.86 | .721 | 18.31 |
| 10 | 809-108F36 | 809-108V36 | 809-108X36 | 1.101 | 37.97 | .682 | 17.32 | 1.295 | 32.89 | .795 | 20.19 |
| 12 | 809-108F37 | 809-108V37 | 809-108X37 | 1.204 | 30.58 | .757 | 19.23 | 1.400 | 35.56 | .874 | 22.20 |
| 14 | 809-108F38 | 809-108V38 | 809-108X38 | 1.280 | 32.51 | .910 | 23.11 | 1.555 | 39.50 | 1.050 | 26.67 |
| 15 | 809-108F39 | 809-108V39 | 809-108X39 | 1.370 | 34.80 | .970 | 24.64 | 1.640 | 41.66 | 1.150 | 29.21 |

Dimensions in inches (millimeters) and are subject to change without notice.

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## Flange Gaskets for Series 805 Mighty Mouse Receptacles

These flange gaskets provide sealing between square flange receptacles and the mounting panel. Choose fluorosilicone, Viton®, or conductive fluorosilicone material (Chomerics 1298 silver-filled). Gaskets are .032" (0.8) thick.

| Shell Size | Part Number | | | Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fluorosilicone | Viton® | Conductive Fluorosilicone | A Bsc. | | B Dia. | | C Typ. | | D Dia. | | E Rad. | |
| | | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 8 | 809-108F20 | 809-108V20 | 809-108X20 | .660 | 16.76 | .530 | 13.46 | .850 | 21.59 | .093 | 2.36 | .078 | 1.98 |
| 9 | 809-108F21 | 809-108V21 | 809-108X21 | .723 | 18.36 | .590 | 14.99 | .913 | 23.19 | .093 | 2.36 | .078 | 1.98 |
| 10 | 809-108F22 | 809-108V22 | 809-108X22 | .785 | 19.94 | .660 | 16.76 | .975 | 24.77 | .093 | 2.36 | .078 | 1.98 |
| 11 | 809-108F23 | 809-108V23 | 809-108X23 | .848 | 21.54 | .720 | 18.29 | 1.039 | 26.39 | .093 | 2.36 | .078 | 1.98 |
| 12 | 809-108F24 | 809-108V24 | 809-108X24 | .909 | 23.09 | .780 | 19.81 | 1.099 | 27.91 | .093 | 2.36 | .078 | 1.98 |
| 15 | 809-108F25 | 809-108V25 | 809-108X25 | 1.058 | 26.87 | .970 | 24.64 | 1.288 | 32.72 | .125 | 3.18 | .105 | 2.67 |
| 18 | 809-108F26 | 809-108V26 | 809-108X26 | 1.255 | 31.88 | 1.160 | 29.46 | 1.475 | 37.47 | .125 | 3.18 | .105 | 2.67 |
| 19 | 809-108F27 | 809-108V27 | 809-108X27 | 1.327 | 33.71 | 1.220 | 30.99 | 1.537 | 39.04 | .125 | 3.18 | .105 | 2.67 |
| 23 | 809-108F28 | 809-108V28 | 809-108X28 | 1.570 | 39.88 | 1.458 | 37.03 | 1.797 | 45.64 | .125 | 3.18 | .105 | 2.67 |



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Replacement O-Rings For Jam Nut Receptacles

## O-Rings for Mighty Mouse Jam Nut Receptacles

Replace lost or damaged O-rings with standard fluorosilicone O-rings. Or, choose EPDM o-rings for improved resistance to hydraulic fluids. Upgrade to silver-filled conductive O-rings for improved EMI protection.

### O-rings for Series 800 Jam Nut Receptacles

| Shell Size | Part Number | | | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|
| | Fluoro-silicone | EPDM | Conductive Silicone Cho-Seal 1285 | Conductive Fluorosilicone Cho-Seal 1298 | Inside Diameter | | Cross-Section | |
| | | | | | In. | mm. | In. | mm. |
| 5 | 809-067-05F | 809-067-05E | 249-003-800-05-B | 249-003-800-05-C | .364 | 9.25 | .045 | 1.14 |
| 6 | 809-067-06F | 809-067-06E | 249-003-800-06-B | 249-003-800-06-C | .426 | 10.82 | .050 | 1.27 |
| 7 | 809-067-07F | 809-067-07E | 249-003-800-07-B | 249-003-800-07-C | .489 | 12.42 | .055 | 1.40 |
| 8 | 809-067-08F | 809-067-08E | 249-003-800-08-B | 249-003-800-08-C | .588 | 14.94 | .051 | 1.30 |
| 9 | 809-067-09F | 809-067-09E | 249-003-800-09-B | 249-003-800-09-C | .614 | 15.60 | .070 | 1.78 |
| 10 | 809-067-10F | 809-067-10E | 249-003-800-10-B | 249-003-800-10-C | .709 | 18.01 | .079 | 2.01 |
| 12 | 809-067-12F | 809-067-12E | 249-003-800-12-B | 249-003-800-12-C | .801 | 20.35 | .070 | 1.78 |

### O-rings for Series 801 Jam Nut Receptacles

| Shell Size | Part Number | | | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|
| | Fluoro-silicone | EPDM | Conductive Silicone Cho-Seal 1285 | Conductive Fluorosilicone Cho-Seal 1298 | Inside Diameter | | Cross-Section | |
| | | | | | In. | mm. | In. | mm. |
| 5 | 809-054-05F | 809-054-05E | 249-003-801-05-B | 249-003-801-05-C | .394 | 10.01 | .047 | 1.19 |
| 6 | 809-054-06F | 809-054-06E | 249-003-801-06-B | 249-003-801-06-C | .459 | 11.66 | .049 | 1.24 |
| 7 | 809-054-07F | 809-054-07E | 249-003-801-07-B | 249-003-801-07-C | .578 | 14.68 | .040 | 1.02 |
| 8 | 809-054-08F | 809-054-08E | 249-003-801-08-B | 249-003-801-08-C | .578 | 14.68 | .040 | 1.02 |
| 9 | 809-054-09F | 809-054-09E | 249-003-801-09-B | 249-003-801-09-C | .650 | 16.51 | .045 | 1.14 |
| 10 | 809-054-10F | 809-054-10E | 249-003-801-10-B | 249-003-801-10-C | .709 | 18.01 | .043 | 1.09 |
| 13 | 809-054-13F | 809-054-13E | 249-003-801-13-B | 249-003-801-13-C | .894 | 22.71 | .047 | 1.19 |
| 16 | 809-054-16F | 809-054-16E | 249-003-801-16-B | 249-003-801-16-C | 1.086 | 27.58 | .040 | 1.02 |
| 17 | 809-054-17F | 809-054-17E | 249-003-801-17-B | 249-003-801-17-C | 1.142 | 29.01 | .043 | 1.09 |
| 21 | 809-054-21F | 809-054-21E | 249-003-801-21-B | 249-003-801-21-C | | | | |

### O-rings for Series 804 Rear Mount Jam Nut Receptacles (Style 07)

| Shell Size | Part Number | | | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|
| | Fluoro-silicone | EPDM | Conductive Silicone Cho-Seal 1285 | Conductive Fluorosilicone Cho-Seal 1298 | Inside Diameter | | Cross-Section | |
| | | | | | In. | mm. | In. | mm. |
| 5 | 809-055-05F | 809-055-05E | 249-003-804-05-B | 249-003-804-05-C | .505 | 12.83 | .070 | 1.78 |
| 6 | 809-055-06F | 809-055-06E | 249-003-804-06-B | 249-003-804-06-C | .525 | 13.34 | .071 | 1.80 |
| 7 | 809-055-07F | 809-055-07E | 249-003-804-07-B | 249-003-804-07-C | .638 | 16.21 | .073 | 1.85 |
| 8 | 809-055-08F | 809-055-08E | 249-003-804-08-B | 249-003-804-08-C | .688 | 17.48 | .070 | 1.78 |
| 9 | 809-055-09F | 809-055-09E | 249-003-804-09-B | 249-003-804-09-C | .750 | 19.05 | .070 | 1.78 |
| 10 | 809-055-10F | 809-055-10E | 249-003-804-10-B | 249-003-804-10-C | .813 | 20.65 | .063 | 1.60 |
| 12 | 809-055-12F | 809-055-12E | 249-003-804-12-B | 249-003-804-12-C | .943 | 23.95 | .070 | 1.78 |
| 14 | 809-055-14F | 809-055-14E | 249-003-804-14-B | 249-003-804-14-C | 1.061 | 26.95 | .073 | 1.85 |
| 15 | 809-055-15F | 809-055-15E | 249-003-804-15-B | 249-003-804-15-C | 1.114 | 28.30 | .070 | 1.78 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# O-Rings for Mighty Mouse Jam Nut Receptacles

Replace lost or damaged O-rings with standard fluorosilicone O-rings. Or, choose EPDM o-rings for improved resistance to hydraulic fluids. Upgrade to silver-filled conductive O-rings for improved EMI prote

## O-rings for Series 805 Jam Nut Receptacles

| Shell Size | Part Number | | | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|
| | Fluoro-silicone | EPDM | Conductive Silicone Cho-Seal 1285 | Conductive Fluorosilicone Cho-Seal 1298 | Inside Diameter | | Cross-Section | |
| | | | | | In. | mm. | In. | mm. |
| 8 | 809-150-08F | 809-150-08E | 249-003-805-08-B | 249-003-805-08-C | .578 | 14.68 | .040 | 1.02 |
| 9 | 809-150-09F | 809-150-09E | 249-003-805-09-B | 249-003-805-09-C | .709 | 18.01 | .045 | 1.14 |
| 10 | 809-150-10F | 809-150-10E | 249-003-805-10-B | 249-003-805-10-C | .709 | 18.01 | .045 | 1.14 |
| 11 | 809-150-11F | 809-150-11E | 249-003-805-11-B | 249-003-805-11-C | .780 | 19.81 | .047 | 1.19 |
| 12 | 809-150-12F | 809-150-12E | 249-003-805-12-B | 249-003-805-12-C | .894 | 22.71 | .047 | 1.19 |
| 15 | 809-150-15F | 809-150-15E | 249-003-805-15-B | 249-003-805-15-C | 1.024 | 26.01 | .047 | 1.19 |
| 18 | 809-150-18F | 809-150-18E | 249-003-805-18-B | 249-003-805-18-C | 1.201 | 30.51 | .047 | 1.19 |
| 19 | 809-150-19F | 809-150-19E | 249-003-805-19-B | 249-003-805-19-C | 1.257 | 31.93 | .047 | 1.19 |
| 23 | 809-150-23F | 809-150-23E | 249-003-805-23-B | 249-003-805-23-C | 1.530 | 38.86 | .047 | 1.19 |

These Viton® O-rings fit Series 802 "AquaMouse" rear panel mount jam nut connector flanges.

## O-rings for Series 802 Rear Mount Jam Nut Receptacles (Style 07)

| Shell Size | Part Number | Dimensions | | | |
|---|---|---|---|---|---|
| | | Inside Diameter | | Cross-Section | |
| | Viton® | In. | mm. | In. | mm. |
| 5 | 809-165-05 | .550 | 13.97 | .070 | 1.78 |
| 6 | 809-165-06 | .670 | 17.02 | .070 | 1.78 |
| 7 | 809-165-07 | .730 | 18.54 | .070 | 1.78 |
| 8 | 809-165-08 | .800 | 20.32 | .070 | 1.78 |
| 9 | 809-165-09 | .860 | 21.84 | .070 | 1.78 |
| 10 | 809-165-10 | .930 | 23.62 | .070 | 1.78 |
| 12 | 809-165-12 | .990 | 25.15 | .070 | 1.78 |
| 14 | 809-165-14 | 1.170 | 29.72 | .070 | 1.78 |
| 15 | 809-165-15 | 1.239 | 31.47 | .070 | 1.78 |
| 21 | 809-165-21 | 1.614 | 41.00 | .070 | 1.78 |



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Shorting Cap Backshell Ordering Information
## 340MS026

***Shorting Applications*** — These caps are used to cover up exposed wires on the back of a shorting connector.Shorting connectors are used to protect critical circuits from static discharge.

Plugs can also re-route circuits in ***Switching*** applications. Or, resistors and active electronics can be installed. Whatever the application, a shorting cap is a simple way to cover up the back end of the connector.

| MATERIALS | |
|---|---|
| Cap | Aluminum Alloy 6061-T6 or 300 Series Stainless Steel |
| O-Ring | Silicone Rubber |
| Hardware | 300 Series Stainless Steel |

## HOW TO ORDER

**Sample Part Number**

| 340MS026 | M | G | 07 | -4 | 02 | -6 |
|---|---|---|---|---|---|---|
| **Series** | **Shell Material / Finish** | **Attachment Type** | **Size Code** | **Overall Length** | **Attachment Code** | **Attachment Length in Inches** |
| **340MS026**<br>Shorting Cap Backshell | **C**<br>Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M**<br>Aluminum / Electroless Nickel RoHS Compliant<br>**NF**<br>Aluminum / Cadmium with Olive Drab Chromate<br>**ZN**<br>Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU**<br>Aluminum / Zinc-Nickel with Black Chromate<br>**MT**<br>Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1**<br>Stainless Steel / Passivated RoHS Compliant | **G**<br>Nylon Rope<br>**H**<br>SST Wire Rope, Teflon® Jacket<br>**N**<br>No Attachment<br>**S**<br>SST Sash Chain<br>**SK**<br>Nylon Rope With Slip Knot<br>**U**<br>SST Wire Rope, Polyurethane Jacket | **05** – .2500-32<br>**06** – .3125-32<br>**11** – .3750-32<br>**07** – .4375-28<br>**08** – .5000-28<br>**09** – .5625-24<br>**10** – .6250-24<br>**12** – .6875-24<br>**13** – .7500-20<br>**14** – .9375-24<br>**17** – 1.1875-18 | **-4** – .50 (12.7)<br>**-5** – .75 (19.1)<br>**-6** – 1.00 (25.4)<br>**-7** – 1.25 (31.8)<br>**-8** – 1.50 (38.1)<br>**-9** – 1.75 (44.5)<br>**-10** – 2.00 (50.8)<br>**-11** – 2.25 (57.2)<br>**-12** – 2.50 (63.5)<br>**-13** – 2.75 (69.9)<br>**-14** – 3.00 (76.2)<br> <br> | Omit for attachment Type N (No Attachment)<br> <br>Small Ring<br>**01** – .126 (3.20) I.D.<br>**02** – .145 (3.68) I.D.<br>**04** – .188 (4.78) I.D.<br>**06** – .197 (5.00) I.D.<br> <br>Large Ring<br>**14** – .385 (9.78) I.D.<br>**15** – .445 (11.30) I.D.<br>**16** – .570 (14.48) I.D.<br>**17** – .635 (16.13) I.D.<br>**18** – .695 (17.65) I.D.<br>**19** – .885 (22.48) I.D.<br>**20** – 1.070 (27.17) I.D.<br>**21** – 1.135 (28.83) I.D.<br>**22** – 1.210 (30.73) I.D. | Omit for attachment Type N (No Attachment)<br>**Example**<br>"-6" equals six inch length |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Shorting Cap Backshell Dimensions
## 340MS026

## ATTACHMENT OPTIONS

| | Dia. Code | Ring I.D. In. ±.005 | Ring I.D. mm. ±0.13 | Ring O.D. In. Max. | Ring O.D. mm. Max. |
|---|---|---|---|---|---|
| Small Ring for Attaching to a Panel with a Screw | 01 | .126 | 3.20 | .31 | 7.9 |
| | 02 | .145 | 3.68 | .31 | 7.9 |
| | 04 | .188 | 4.78 | .31 | 7.9 |
| | 06 | .197 | 5.00 | .31 | 7.9 |
| Large Solid Ring for Attaching to a Jam Nut Receptacle | Dia. Code | Ring I.D. In. ± .010 | Ring I.D. mm. ±0.25 | Ring O.D. In. ± .015 | Ring O.D. mm. ± 0.38 |
| | 14 | .385 | 9.78 | .510 | 12.95 |
| | 15 | .445 | 11.30 | .565 | 14.35 |
| | 16 | .570 | 14.48 | .685 | 17.40 |
| | 17 | .635 | 16.13 | .760 | 19.30 |
| | 18 | .695 | 17.65 | .820 | 20.82 |
| | 19 | .885 | 22.48 | 1.010 | 25.65 |
| | 20 | 1.070 | 27.17 | 1.195 | 30.35 |
| | 21 | 1.135 | 28.83 | 1.250 | 31.75 |
| | 22 | 1.210 | 30.73 | 1.312 | 33.32 |
| Nylon Rope With Slip Knot (SK) for Attaching Covers to Cable | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop. | | | | |

## DIMENSIONS

| Size Code | Ø A Max. In. | Ø A Max. mm. | B Threads |
|---|---|---|---|
| 05 | .350 | 8.89 | .250-32 UNEF-2B |
| 06 | .415 | 10.54 | .3125-32 UNEF-2B |
| 11 | .465 | 11.81 | .3750-32 UNEF-2B |
| 07 | .530 | 13.46 | .4375-28 UNEF-2B |
| 08 | .595 | 14.35 | .5000-28 UNEF-2B |
| 09 | .650 | 16.51 | .5625-24 UNEF-2B |
| 10 | .715 | 18.16 | .6250-24 UNEF-2B |
| 12 | .785 | 19.94 | .6875-24 UNEF-2B |
| 13 | .830 | 21.08 | .7500-20 UNEF-2B |
| 14 | 1.020 | 25.91 | .9375-20 UNEF-2B |
| 17 | 1.270 | 32.26 | 1.1875-18 UNEF-2B |

## LANYARD OPTIONS

| | |
|---|---|
| Nylon Rope (G) | -55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter |
| Polyurethane Coated Wire Rope (U) | Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter |
| Teflon Jacketed Wire Rope (H) | Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter |
| Sash Chain (S) | Stainless steel, #8 chain, .240" (6mm) |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Strain Relief Clamp Ordering Information
## 620MS064 and 920MS065

These clamps provide strain relief to open wire bundles. Add tubing or tape to build up smaller diameter wires to fit the clamps.

Straight Entry clamps are available with ***Rotatable Coupling***. Or, save space with lower profile ***Direct Coupling*** versions.

| MATERIALS | |
|---|---|
| Nut, Clamp, and Saddles | Aluminum Alloy 6061-T6 or 300 Series SST |
| Hardware | 300 Series Stainless Steel |

## HOW TO ORDER

**Sample Part Number**

| 620MS064 | M | 07 |
|---|---|---|
| **Part Number** | **Shell Material / Finish** | **Size Code** |

**620MS065**
Rotatable Coupling

**620MS064**
Direct Coupling

**C**
Aluminum / Black Anodize (Non-Conductive)
RoHS Compliant

**M**
Aluminum / Electroless Nickel
RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE
RoHS Compliant

**Z1**
Stainless Steel / Passivated
RoHS Compliant

| Size Code | Thread Size | Cable Entry Diameter | Shell Size: Series 800, 801, 803, 804 | Shell Size: Series 805 |
|---|---|---|---|---|
| 05 | .2500-32 UNEF | .11 | 5 | |
| 06 | .3125-32 UNEF | .17 | 6 | |
| 11 | .3750-32 UNEF | .17 | | 8 |
| 07 | .4375-28 UNEF | .23 | 7 | 9 |
| 08 | .5000-28 UNEF | .30 | 8 | 10 |
| 09 | .5625-24 UNEF | .30 | 9 | 11 |
| 10 | .6250-24 UNEF | .36 | 10 | 12 |
| 12 | .6875-24 UNEF | .42 | 12, 13 | |
| 13 | .7500-20 UNEF | .42 | | 15 |
| 14 | .9375-20 UNEF | .48 | 14, 15, 16, 17 | 18, 19 |
| 15 | .9375-20 UNEF | .61 | 14, 15, 16, 17 | 18, 19 |
| 17 | 1.1875-18 UNEF | .86 | 21 | 23 |



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# Series 80 Mighty Mouse
# Strain Relief Clamp Dimensions
## 620MS064 and 620MS065

STRAIGHT ENTRY
ROTATABLE COUPLING
620MS065

STRAIGHT ENTRY
DIRECT COUPLING
620MS064

**DIMENSIONS**

| Size Code | A Threads | B Max. | | C Max. | | Ø D | | E | | F | | G Max. | | H Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. | In. ± .015 | mm. ± 0.38 | In. ± .015 | mm. ± 0.38 | In. ± .030 | mm. ± 0.76 | In. | mm. | In. | mm. |
| 05 | .2500-32 UNEF-2B | .470 | 11.94 | .688 | 17.48 | .119 | 3.02 | .496 | 12.60 | .110 | 2.79 | .625 | 15.88 | .350 | 8.89 |
| 06 | .3125-32 UNEF-2B | .530 | 13.46 | .688 | 17.48 | .182 | 4.62 | .582 | 14.78 | .170 | 4.32 | .625 | 15.88 | .415 | 10.54 |
| 11 | .375-32 UNEF-2B | .570 | 14.48 | .688 | 17.48 | .182 | 4.62 | .582 | 14.78 | .170 | 4.32 | .625 | 15.88 | .465 | 11.81 |
| 07 | .4375-28 UNEF-2B | .637 | 16.18 | .688 | 17.48 | .244 | 6.20 | .656 | 16.66 | .230 | 5.08 | .688 | 17.48 | .530 | 13.46 |
| 08 | .5000-28 UNEF-2B | .700 | 17.78 | .688 | 17.48 | .307 | 7.80 | .726 | 18.44 | .300 | 7.62 | .688 | 17.48 | .595 | 15.11 |
| 09 | .5625-24 UNEF-2B | .758 | 19.25 | .750 | 19.05 | .307 | 7.80 | .726 | 18.44 | .300 | 7.62 | .750 | 19.05 | .650 | 16.51 |
| 10 | .6250-24 UNEF-2B | .819 | 20.80 | .750 | 19.05 | .369 | 9.37 | .885 | 22.48 | .360 | 9.14 | .875 | 22.23 | .715 | 18.16 |
| 12 | .6875-24 UNEF-2B | .896 | 22.76 | .750 | 19.05 | .432 | 10.97 | .952 | 24.18 | .420 | 10.67 | .875 | 22.23 | .785 | 19.94 |
| 13 | .750-20 UNEF-2B | .930 | 23.62 | .750 | 19.05 | .432 | 10.97 | .952 | 24.18 | .420 | 10.67 | .875 | 22.23 | .830 | 21.08 |
| 14 | .9375-20 UNEF-2B | 1.137 | 28.88 | .750 | 19.05 | .494 | 12.55 | 1.018 | 25.86 | .480 | 12.19 | 1.000 | 25.40 | 1.020 | 25.91 |
| 15 | .9375-20 UNEF-2B | 1.137 | 28.88 | .750 | 19.05 | .619 | 15.72 | 1.148 | 29.16 | .610 | 15.49 | 1.000 | 25.40 | 1.020 | 25.91 |
| 17 | 1.1875-18 UNEF-2B | 1.397 | 35.48 | .750 | 19.05 | .869 | 22.07 | 1.400 | 35.56 | .860 | 21.84 | 1.125 | 28.58 | 1.280 | 32.51 |



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Thread-On BAND-IT® Adapter Ordering Information
## 440MS135, 440MK135 and 440ML135

These thread-on adapters are used with ***BAND-IT® micro band*** shield termination straps. Choose the smallest cable entry for your wire bundle. ***Straight Entry*** adapters are available in various lengths. ***45° and 90°*** adapters feature rotatable coupling nuts.

***BAND-IT® Strap***
Microband 600-057-1

***Micro Band Tool***
600-061

***Installed***
Add a boot or overmold for environmental protection

| MATERIALS | |
|---|---|
| Nut, Adapter | Aluminum Alloy or 300 Series SST |
| Band | 300 Series SST |
| O-Ring | Silicone Elastomer |

## HOW TO ORDER

**Sample Part Number**

| 440MS135 | M | 07 | 05- | 6 | K |
|---|---|---|---|---|---|
| **Part Number** | **Shell Material / Finish** | **Size Code** | **Cable Entry Size** | **Length** | **Band Option** |

**440MS135**
Straight Entry

**440MK135**
45° Entry

**440ML135**
90° Entry

**C**
Aluminum / Black Anodize (Non-Conductive)
RoHS Compliant

**M**
Aluminum / Electroless Nickel
RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE
RoHS Compliant

**Z1**
Stainless Steel / Passivated
RoHS Compliantt

| Size Code | Thread Size |
|---|---|
| 05 | .2500-32 |
| 06 | .3125-32 |
| 11 | .3750-32 |
| 07 | .4375-28 |
| 08 | .5000-28 |
| 09 | .5625-24 |
| 10 | .6250-24 |
| 12 | .6875-24 |
| 13 | .7500-20 |
| 14 | .9375-20 |
| 17 | 1.1875-18 |

| Cable Entry Code | Cable Entry Dia. (In.) | Use With Size Codes |
|---|---|---|
| 02- | .125 | 05-17 |
| 03- | .188 | 05-17 |
| 04- | .250 | 06-17 |
| 05- | .312 | 07-17 |
| 06- | .375 | 07-17 |
| 07- | .438 | 08-17 |
| 08- | .500 | 09-17 |
| 09- | .562 | 10-17 |
| 10- | .625 | 12-17 |
| 11- | .688 | 14-17 |
| 12- | .750 | 14-17 |
| 13- | .812 | 14-17 |
| 14- | .875 | 14-17 |

Straight Entry 440MS135 Only

| Length Code | Length (Inches) |
|---|---|
| 6 | .750 |
| 7 | .875 |
| 8 | 1.000 |
| 9 | 1.125 |
| 10 | 1.250 |
| 11 | 1.375 |
| 12 | 1.500 |
| 13 | 1.625 |
| 14 | 1.750 |
| 15 | 1.875 |
| 16 | 2.000 |
| 17 | 2.125 |
| 18 | 2.250 |
| 19 | 2.375 |
| 20 | 2.500 |

Specify Length in increments of .125 inches (3.18 mm.)

Omit for no band supplied

**K**
Adapter is supplied with ***BAND-IT®*** shield termination band, pre-coiled



Dimensions in inches (millimeters) and are subject to change without notice.

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www.glenair.com
E-Mail: sales@glenair.com

# Series 80 Mighty Mouse
# Thread-On BAND-IT® Adapter Dimensions
## 440MS135, 440MK135 and 440ML135

STRAIGHT ENTRY
ROTATABLE COUPLING
440MS135

45º ENTRY
ROTATABLE COUPLING
440MK135

90º ENTRY
ROTATABLE COUPLING
440ML135

## DIMENSIONS

| Size Code | A Threads | B Max. | | C Max. | | D Max. | | E Max. | | F Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 05 | .2500-32 | .470 | 11.94 | .530 | 13.46 | .660 | 16.76 | .630 | 16.00 | .780 | 19.81 |
| 06 | .3125-32 | .530 | 13.46 | .550 | 13.97 | .670 | 17.02 | .660 | 16.76 | .790 | 20.27 |
| 11 | .3750-32 | .570 | 14.48 | .560 | 14.22 | .680 | 17.27 | .680 | 17.27 | .810 | 20.57 |
| 07 | .4375-28 | .637 | 16.18 | .570 | 14.48 | .690 | 17.53 | .700 | 17.78 | .830 | 21.08 |
| 08 | .5000-28 | .700 | 17.78 | .580 | 14.73 | .700 | 17.78 | .740 | 18.80 | .860 | 21.84 |
| 09 | .5625-24 | .758 | 19.25 | .590 | 14.99 | .710 | 18.03 | .770 | 19.56 | .890 | 22.61 |
| 10 | .6250-24 | .819 | 20.80 | .610 | 15.49 | .730 | 18.54 | .800 | 20.32 | .920 | 23.37 |
| 12 | .6875-24 | .896 | 22.76 | .640 | 16.26 | .750 | 19.05 | .840 | 21.34 | .970 | 24.64 |
| 13 | .7500-20 | .930 | 23.62 | .660 | 16.76 | .770 | 19.56 | .880 | 22.35 | 1.020 | 25.91 |
| 14 | .9375-20 | 1.137 | 28.88 | .690 | 17.53 | .800 | 20.32 | .950 | 24.13 | 1.090 | 27.69 |
| 17 | 1.1875-18 | 1.387 | 35.23 | .720 | 18.29 | .830 | 21.08 | 1.010 | 25.65 | 1.160 | 29.46 |

## CABLE ENTRY

| Cable Entry Code | Ø H | | Ø J | | Ø K | | Use With Size Codes |
|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | |
| | ± .015 | ± 0.38 | ± .015 | ± 0.38 | ± .015 | ± 0.38 | |
| 02 | .125 | 3.18 | .164 | 4.17 | .266 | 6.76 | 05-14 |
| 03 | .188 | 4.78 | .227 | 5.77 | .329 | 8.36 | 05-14 |
| 04 | .250 | 6.35 | .289 | 7.34 | .391 | 9.93 | 06-14 |
| 05 | .312 | 7.92 | .351 | 8.92 | .453 | 11.51 | 07-14 |
| 06 | .375 | 9.53 | .414 | 10.52 | .516 | 13.11 | 07-14 |
| 07 | .438 | 11.13 | .477 | 12.12 | .579 | 14.71 | 08-14 |
| 08 | .500 | 12.70 | .539 | 13.69 | .641 | 16.28 | 09-14 |
| 09 | .562 | 14.27 | .601 | 15.27 | .703 | 17.86 | 10-14 |
| 10 | .625 | 15.88 | .664 | 16.87 | .766 | 19.46 | 12-14 |
| 11 | .688 | 17.48 | .727 | 18.47 | .829 | 21.06 | 14 |
| 12 | .750 | 19.05 | .789 | 20.04 | .891 | 22.63 | 14 |
| 13 | .812 | 20.62 | .851 | 21.62 | .953 | 24.21 | 14 |
| 14 | .875 | 22.23 | .914 | 23.22 | 1.016 | 25.81 | 14 |

## CONNECTOR SHELL SIZES

| Size Code | A Threads | Shell Size | |
|---|---|---|---|
| | | Series 800, 801, 803, 804 | Series 805 |
| 05 | .2500-32 UNEF-2B | 5 | – |
| 06 | .3125-32 UNEF-2B | 6 | – |
| 11 | .375-32 UNEF-2B | – | 8 |
| 07 | .4375-28 UNEF-2B | 7 | 9 |
| 08 | .5000-28 UNEF-2B | 8 | 10 |
| 09 | .5625-24 UNEF-2B | 9 | 11 |
| 10 | .6250-24 UNEF-2B | 10 | 12 |
| 12 | .6875-24 UNEF-2B | 12, 13 | – |
| 13 | .750-20 UNEF-2B | – | 15 |
| 14 | .9375-20 UNEF-2B | 14, 15, 16, 17 | 18, 19 |
| 17 | 1.1875-18 UNEF-2B | 21 | 23 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Low-Profile BAND-IT® Adapter Ordering Information
## 440MS134

These low-profile adapters are used with ***BAND-IT® micro band*** shield termination straps. Choose the smallest cable entry for your wire bundle.

***BAND-IT® Strap***
Microband 600-057-1

***Micro Band Tool***
600-061

***Installed***
Add a boot or overmold for environmental protection

| MATERIALS | |
|---|---|
| Adapter | Aluminum Alloy or 300 Series SST |
| Band | 300 Series SST |
| O-Ring | Silicone Elastomer |

## HOW TO ORDER

**Sample Part Number**

| 440MS134 | NF | 12 | 08 | K |
|---|---|---|---|---|
| **Part Number** | **Shell Material / Finish** | **Size Code** | **Cable Entry Size** | **Band Option** |

**440MS134**
Straight Entry

**C**
Aluminum / Black Anodize (Non-Conductive)
RoHS Compliant

**M**
Aluminum / Electroless Nickel
RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE
RoHS Compliant

**Z1**
Stainless Steel / Passivated
RoHS Compliant

| Size Code | Thread Size |
|---|---|
| 05 | .2500-32 |
| 06 | .3125-32 |
| 11 | .3750-32 |
| 07 | .4375-28 |
| 08 | .5000-28 |
| 09 | .5625-24 |
| 10 | .6250-24 |
| 12 | .6875-24 |
| 13 | .7500-20 |
| 14 | .9375-20 |
| 17 | 1.1875-18 |

| Cable Entry Code | Cable Entry Dia. (In.) | Use With Size Codes |
|---|---|---|
| 01 | .094 | 05-06, 11 |
| 02 | .125 | 05-07, 11 |
| 03 | .172 | 05-08, 11 |
| 04 | .234 | 06-08 |
| 05 | .272 | 07-09 |
| 06 | .312 | 07-10 |
| 07 | .375 | 08-13 |
| 08 | .438 | 09-13 |
| 09 | .500 | 10-13 |
| 10 | .562 | 12-14, 17 |
| 11 | .625 | 14, 17 |
| 12 | .688 | 14, 17 |
| 13 | .750 | 14, 17 |
| 14 | .812 | 14, 17 |

Omit for no band supplied

**K**
Adapter is supplied with ***BAND-IT®*** shield termination band, pre-coiled

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Low-Profile BAND-IT® Adapter Dimensions
## 440MS134

STRAIGHT ENTRY
DIRECT COUPLING
440MS134

| DIMENSIONS | | | |
|---|---|---|---|
| Size Code | A Threads | B Max. In. | B Max. mm. |
| 05 | .2500-32 UNEF-2B | .350 | 8.89 |
| 06 | .3125-32 UNEF-2B | .415 | 10.54 |
| 11 | .375-32 UN-2B | .465 | 11.81 |
| 07 | .4375-28 UNEF-2B | .530 | 13.46 |
| 08 | .5000-28 UNEF-2B | .595 | 15.11 |
| 09 | .5625-24 UNEF-2B | .650 | 16.51 |
| 10 | .6250-24 UNEF-2B | .715 | 18.16 |
| 12 | .6875-24 UNEF-2B | .785 | 19.94 |
| 13 | .750-20 UNEF-2B | .830 | 21.08 |
| 14 | .9375-20 UNEF-2B | 1.020 | 25.91 |
| 17 | 1.1875-18 UNEF-2B | 1.280 | 32.51 |

| CABLE ENTRY | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cable Entry Code | Ø C In. ± .015 | Ø C mm. ± 0.38 | Ø D In. ± .015 | Ø D mm. ± 0.38 | Ø E In. ± .015 | Ø E mm. ± 0.38 | Use With Size Codes |
| 01 | .094 | 2.39 | .133 | 3.38 | .235 | 5.97 | 05-06 |
| 02 | .125 | 3.18 | .164 | 4.17 | .266 | 6.76 | 05-07 |
| 03 | .172 | 4.37 | .211 | 5.36 | .313 | 7.95 | 05-08 |
| 04 | .234 | 5.94 | .273 | 6.93 | .375 | 9.53 | 06-08 |
| 05 | .272 | 6.91 | .311 | 7.90 | .413 | 10.49 | 07-09 |
| 06 | .312 | 7.92 | .351 | 8.92 | .453 | 11.51 | 07-10 |
| 07 | .375 | 9.53 | .414 | 10.52 | .516 | 13.11 | 08-12 |
| 08 | .438 | 11.13 | .477 | 12.12 | .579 | 14.71 | 09-12 |
| 09 | .500 | 12.70 | .539 | 13.69 | .641 | 16.28 | 10-12 |
| 10 | .562 | 14.27 | .601 | 15.27 | .703 | 17.88 | 12-14 |
| 11 | .625 | 15.88 | .664 | 16.87 | .766 | 19.46 | 14 |
| 12 | .688 | 17.48 | .727 | 18.47 | .829 | 21.06 | 14 |
| 13 | .750 | 19.05 | .789 | 20.04 | .891 | 22.63 | 14 |
| 14 | .812 | 20.62 | .851 | 21.62 | .953 | 24.21 | 14 |

| CONNECTOR SHELL SIZES | | | |
|---|---|---|---|
| Size Code | A Threads | Shell Size: Series 800, 801, 803, 804 | Shell Size: Series 805 |
| 05 | .2500-32 UNEF-2B | 5 | – |
| 06 | .3125-32 UNEF-2B | 6 | – |
| 11 | .375-32 UNEF-2B | – | 8 |
| 07 | .4375-28 UNEF-2B | 7 | 9 |
| 08 | .5000-28 UNEF-2B | 8 | 10 |
| 09 | .5625-24 UNEF-2B | 9 | 11 |
| 10 | .6250-24 UNEF-2B | 10 | 12 |
| 12 | .6875-24 UNEF-2B | 12, 13 | – |
| 13 | .750-20 UNEF-2B | – | 15 |
| 14 | .9375-20 UNEF-2B | 14, 15, 16, 17 | 18, 19 |
| 17 | 1.1875-18 UNEF-2B | 21 | 23 |



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Environmental Backshell Ordering Information
## 370MS037, 370MS038, 370MB038 and 370MA038

Environmental backshells feature silicone o-rings for a watertight seal.

***Straight Entry*** backshells are available with direct coupling or rotatable coupling.

***45° and 90°*** adapters feature rotatable coupling nuts.

| MATERIALS | |
|---|---|
| Adapter, Clamp, Nut and Saddles | Aluminum Alloy 6061-T6 or 300 Series Stainless Steel |
| O-Rings | Silicone Rubber |
| Hardware | 300 Series Stainless Steel |

## HOW TO ORDER

**Sample Part Number**

| 370MS037 | C | 10 | 05- | 6 | N |
|---|---|---|---|---|---|
| **Part Number** | **Shell Material / Finish** | **Size Code** | **Cable Entry Code** | **Length** | **Clamp Style** |

**370MS038**
Straight Entry, Rotatable Coupling

**370MS037**
Straight Entry, Direct Coupling

**370MB038**
45° Entry

**370MA038**
90° Entry

**C**
Aluminum / Black Anodize (Non-Conductive)
RoHS Compliant

**M**
Aluminum / Electroless Nickel
RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE
RoHS Compliant

**Z1**
Stainless Steel / Passivated
RoHS Compliant

| Size Code | Thread Size |
|---|---|
| 05 | .2500-32 |
| 06 | .3125-32 |
| 11 | .3750-32 |
| 07 | .4375-28 |
| 08 | .5000-28 |
| 09 | .5625-24 |
| 10 | .6250-24 |
| 12 | .6875-24 |
| 13 | .7500-20 |
| 14 | .9375-20 |
| 17 | 1.1875-18 |

| Cable Entry Code | Cable Sealing Diameter | |
|---|---|---|
| | Max. | Min. |
| 01- | .109 | .031 |
| 02- | .172 | .078 |
| 03- | .234 | .140 |
| 04- | .297 | .203 |
| 05- | .359 | .265 |
| 06- | .422 | .328 |
| 07- | .484 | .390 |
| 08- | .547 | .453 |
| 09- | .609 | .515 |

Straight Entry
370MS Only

| Length Code | Length (Inches) |
|---|---|
| 5 | .625 |
| 6 | .750 |
| 7 | .875 |
| 8 | 1.000 |
| 9 | 1.125 |
| 10 | 1.250 |
| 11 | 1.375 |
| 12 | 1.500 |
| 13 | 1.625 |
| 14 | 1.750 |
| 15 | 1.875 |
| 16 | 2.000 |
| 17 | 2.125 |
| 18 | 2.250 |
| 19 | 2.375 |
| 20 | 2.500 |

Specify length in increments of .125 inches (3.18 mm.)

Omit for screw clamp with saddle bars

**N**
Compression Nut, Low Profile



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Environmental Backshell Dimensions
## 370MS037, 370MS038, 370MB038 and 370MA038

STRAIGHT ENTRY
ROTATABLE COUPLING
370MS038

STRAIGHT ENTRY
DIRECT COUPLING
370MS037

45º ENTRY
ROTATABLE COUPLING
370MB038

90º ENTRY
ROTATABLE COUPLING
370MA038

CLAMP STYLE N
COMPRESSION NUT

### DIMENSIONS

| Size Code | A Thds. | B Max. | | C Max. | | Std. Length* | |
|---|---|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. | In. | mm. |
| 05 | .2500-32 | .470 | 11.94 | .350 | 8.89 | .750 | 19.05 |
| 06 | .3125-32 | .530 | 13.46 | .415 | 10.54 | .750 | 19.05 |
| 11 | .3750-32 | .570 | 14.48 | .465 | 11.68 | .750 | 19.05 |
| 07 | .4375-28 | .637 | 16.18 | .530 | 13.46 | .750 | 19.05 |
| 08 | .5000-28 | .700 | 17.78 | .595 | 15.11 | .750 | 19.05 |
| 09 | .5625-24 | .758 | 19.25 | .650 | 16.51 | .750 | 19.05 |
| 10 | .6250-24 | .819 | 20.80 | .715 | 18.16 | .750 | 19.05 |
| 12 | .6875-24 | .896 | 22.76 | .785 | 19.94 | .880 | 22.35 |
| 13 | .7500-20 | .930 | 23.62 | .830 | 21.08 | .880 | 22.35 |
| 14 | .9375-20 | 1.137 | 28.88 | 1.020 | 25.91 | 1.000 | 25.40 |
| 17 | 1.1875-18 | 1.280 | 32.51 | 1.387 | 35.23 | 1.130 | 28.70 |

*Choose standard length for best availability

### DIMENSIONS

| Cable Entry Code | Cable Sealing Dia. | | D Max. | | E Max. | | F Max. | | G Max. | | H | | Ø J Closed | | Ø K | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| | | | | | | | | | | | ± .015 | ± 0.38 | ± .030 | ± 0.76 | ± .015 | ± 0.38 |
| 01 | .109 | .031 | .603 | 15.32 | .581 | 14.76 | .724 | 18.39 | .702 | 17.83 | .496 | 12.60 | .110 | 2.79 | .398 | 10.11 |
| 02 | .172 | .078 | .603 | 15.32 | .581 | 14.76 | .724 | 18.39 | .702 | 17.83 | .582 | 14.78 | .170 | 4.32 | .460 | 11.68 |
| 03 | .234 | .140 | .603 | 15.32 | .581 | 14.76 | .724 | 18.39 | .702 | 17.83 | .656 | 16.66 | .230 | 5.84 | .523 | 13.28 |
| 04 | .297 | .203 | .629 | 15.98 | .607 | 15.42 | .786 | 19.96 | .764 | 19.41 | .726 | 18.44 | .300 | 7.62 | .585 | 14.86 |
| 05 | .359 | .265 | .629 | 15.98 | .607 | 15.42 | .786 | 19.96 | .764 | 19.41 | .885 | 22.48 | .360 | 9.14 | .647 | 16.43 |
| 06 | .422 | .328 | .655 | 16.64 | .633 | 16.00 | .848 | 21.54 | .826 | 20.98 | .952 | 24.18 | .420 | 10.67 | .710 | 18.03 |
| 07 | .484 | .390 | .655 | 16.64 | .633 | 16.00 | .848 | 21.54 | .826 | 20.98 | 1.018 | 25.86 | .480 | 12.19 | .773 | 19.63 |
| 08 | .547 | .453 | .707 | 17.96 | .685 | 17.40 | .911 | 23.14 | .889 | 22.58 | 1.084 | 27.53 | .550 | 13.97 | .835 | 21.21 |
| 09 | .609 | .515 | .707 | 17.96 | .685 | 17.40 | .911 | 23.14 | .889 | 22.58 | 1.148 | 29.16 | .610 | 15.49 | .897 | 22.78 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# EMI Backshell Ordering Information
## 380MS137, 380MS135, 380MB137 and 380MA137

*380MS135*

EMI backshells feature an EMI ring for easy shield termination.

***Straight Entry*** backshells are available with direct coupling or rotatable coupling.

***45° and 90°*** adapters feature rotatable coupling nuts.

| MATERIALS | |
|---|---|
| Adapter, Clamp, Nut and Saddles | Aluminum Alloy 6061-T6 or 300 Series Stainless Steel |
| Hardware | 300 Series Stainless Steel |

## HOW TO ORDER

**Sample Part Number**

| 380MS137 | M | 07 | 04- | 6 | N |
|---|---|---|---|---|---|
| **Part Number** | **Shell Material / Finish** | **Size Code** | **Cable Entry Code** | **Length** | **Clamp Style** |

**380MS137**
Straight Entry, Rotatable Coupling

**380MS135**
Straight Entry, Direct Coupling

**380MB137**
45° Entry

**380MA137**
90° Entry

**C**
Aluminum / Black Anodize (Non-Conductive)
RoHS Compliant

**M**
Aluminum / Electroless Nickel
RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE
RoHS Compliant

**Z1**
Stainless Steel / Passivated
RoHS Compliant

| Size Code | Thread Size |
|---|---|
| 05 | .2500-32 |
| 06 | .3125-32 |
| 11 | .3750-32 |
| 07 | .4375-28 |
| 08 | .5000-28 |
| 09 | .5625-24 |
| 10 | .6250-24 |
| 12 | .6875-24 |
| 13 | .7500-20 |
| 14 | .9375-20 |
| 17 | 1.1875-18 |

| Cable Entry Code | Saddle Clamp Dia. Fully Closed |
|---|---|
| 01- | .11 |
| 02- | .17 |
| 03- | .23 |
| 04- | .30 |
| 05- | .36 |
| 06- | .42 |
| 07- | .48 |
| 08- | .55 |
| 09- | .61 |

Straight Entry 380MS Only

| Length Code | Length (Inches) |
|---|---|
| 5 | .625 |
| 6 | .750 |
| 7 | .875 |
| 8 | 1.000 |
| 9 | 1.125 |
| 10 | 1.250 |
| 11 | 1.375 |
| 12 | 1.500 |
| 13 | 1.625 |
| 14 | 1.750 |
| 15 | 1.875 |
| 16 | 2.000 |
| 17 | 2.125 |
| 18 | 2.250 |
| 19 | 2.375 |
| 20 | 2.500 |

Specify length in increments of .125 inches (3.18 mm.)

Omit for screw clamp with saddle bars

**N**
Optional Compression Nut, Low Profile



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# EMI Backshell Dimensions
## 380MS137, 380MS135, 380MB137 and 380MA137

STRAIGHT ENTRY
ROTATABLE COUPLING
380MS137

STRAIGHT ENTRY
DIRECT COUPLING
380MS135

CLOSED
SADDLE CLAMP

CLAMP STYLE N
COMPRESSION NUT

45º ENTRY
ROTATABLE COUPLING
380MB137

90º ENTRY
ROTATABLE COUPLING
380MA137

**DIMENSIONS**

| Size Code | A Thds. | B Max. | | C Max. | | Std. Length* | |
|---|---|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. | In. | mm. |
| 05 | .2500-32 | .470 | 11.94 | .350 | 8.89 | .750 | 19.05 |
| 06 | .3125-32 | .530 | 13.46 | .415 | 10.54 | .750 | 19.05 |
| 11 | .3750-32 | .570 | 14.48 | .465 | 11.68 | .750 | 19.05 |
| 07 | .4375-28 | .637 | 16.18 | .530 | 13.46 | .750 | 19.05 |
| 08 | .5000-28 | .700 | 17.78 | .595 | 15.11 | .750 | 19.05 |
| 09 | .5625-24 | .758 | 19.25 | .650 | 16.51 | .750 | 19.05 |
| 10 | .6250-24 | .819 | 20.80 | .715 | 18.16 | .750 | 19.05 |
| 12 | .6875-24 | .896 | 22.76 | .785 | 19.94 | .880 | 22.35 |
| 13 | .7500-20 | .930 | 23.62 | .830 | 21.08 | .880 | 22.35 |
| 14 | .9375-20 | 1.137 | 28.88 | 1.020 | 25.91 | 1.000 | 25.40 |
| 17 | 1.1875-18 | 1.387 | 35.23 | 1.280 | 32.51 | 1.130 | 28.70 |

*Choose standard length for best availability

**DIMENSIONS**

| Cable Entry Code | D Max. | | E Max. | | F Max. | | G Max. | | H | | Ø J Closed | | Ø K | | Ø L | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | ± .015 | ± 0.38 | ± .030 | ± 0.76 | ± .015 | ± 0.38 | ± .015 | ± 0.38 |
| 01 | .603 | 15.32 | .581 | 14.76 | .724 | 18.39 | .702 | 17.83 | .496 | 12.60 | .110 | 2.79 | .119 | 3.02 | .398 | 10.11 |
| 02 | .603 | 15.32 | .581 | 14.76 | .724 | 18.39 | .702 | 17.83 | .582 | 14.78 | .170 | 4.32 | .182 | 4.62 | .460 | 11.68 |
| 03 | .603 | 15.32 | .581 | 14.76 | .724 | 18.39 | .702 | 17.83 | .656 | 16.66 | .230 | 5.84 | .244 | 6.20 | .523 | 13.28 |
| 04 | .629 | 15.98 | .607 | 15.42 | .786 | 19.96 | .764 | 19.41 | .726 | 18.44 | .300 | 7.62 | .307 | 7.80 | .585 | 14.86 |
| 05 | .629 | 15.98 | .607 | 15.42 | .786 | 19.96 | .764 | 19.41 | .885 | 22.48 | .360 | 9.14 | .369 | 9.37 | .647 | 16.43 |
| 06 | .655 | 16.64 | .633 | 16.00 | .848 | 21.54 | .826 | 20.98 | .952 | 24.18 | .420 | 10.67 | .432 | 10.97 | .710 | 18.03 |
| 07 | .655 | 16.64 | .633 | 16.00 | .848 | 21.54 | .826 | 20.98 | 1.018 | 25.86 | .480 | 12.19 | .494 | 12.55 | .773 | 19.63 |
| 08 | .707 | 17.96 | .685 | 17.40 | .911 | 23.14 | .889 | 22.58 | 1.084 | 27.53 | .550 | 13.97 | .557 | 14.15 | .835 | 21.21 |
| 09 | .707 | 17.96 | .685 | 17.40 | .911 | 23.14 | .889 | 22.58 | 1.148 | 29.16 | .610 | 15.49 | .619 | 15.72 | .897 | 22.78 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Environmental EMI Backshell Ordering Information
## 390MS077, 390MS076, 390MB077 and 390MA077

These backshells feature an EMI ring for easy shield termination. O-rings provide watertight seals on the cable jacket and on the backshell-to-connector interface.

| MATERIALS | |
|---|---|
| Adapter, Clamp, Nut and Saddles | Aluminum Alloy 6061-T6 or 300 Series Stainless Steel |
| O-Rings | Silicone Rubber |
| Hardware | 300 Series Stainless Steel |

## HOW TO ORDER

| 390MS077 | M | 07 | 04- | 6 | N |
|---|---|---|---|---|---|
| **Part Number** | **Shell Material / Finish** | **Size Code** | **Cable Entry Code** | **Length** | **Clamp Style** |

**390MS077**
Straight Entry, Rotatable Coupling

**390MS076**
Straight Entry, Direct Coupling

**390MB077**
45° Entry Rotatable Coupling

**390MA077**
90° Entry Rotatable Coupling

**C**
Aluminum / Black Anodize (Non-Conductive) RoHS Compliant

**M**
Aluminum / Electroless Nickel RoHS Compliant

**NF**
Aluminum / Cadmium with Olive Drab Chromate

**ZN**
Aluminum / Zinc-Nickel with Olive Drab Chromate

**ZNU**
Aluminum / Zinc-Nickel with Black Chromate

**MT**
Aluminum / Nickel-PTFE RoHS Compliant

**Z1**
Stainless Steel / Passivated RoHS Compliant

| Size Code | Thread Size |
|---|---|
| 05 | .2500-32 |
| 06 | .3125-32 |
| 11 | .3750-32 |
| 07 | .4375-28 |
| 08 | .5000-28 |
| 09 | .5625-24 |
| 10 | .6250-24 |
| 12 | .6875-24 |
| 13 | .7500-20 |
| 14 | .9375-20 |
| 17 | 1.1875-18 |

| Cable Entry Code | Cable Sealing Dia. Max. | Cable Sealing Dia. Min. |
|---|---|---|
| 01- | .109 | .031 |
| 02- | .172 | .078 |
| 03- | .234 | .140 |
| 04- | .297 | .203 |
| 05- | .359 | .265 |
| 06- | .422 | .328 |
| 07- | .484 | .390 |
| 08- | .547 | .453 |
| 09- | .609 | .515 |
| 10- | .672 | .578 |
| 11- | .734 | .640 |

Straight Entry 390MS Only

| Length Code | Length (Inches) |
|---|---|
| 5 | .625 |
| 6 | .750 |
| 7 | .875 |
| 8 | 1.000 |
| 9 | 1.125 |
| 10 | 1.250 |
| 11 | 1.375 |
| 12 | 1.500 |
| 13 | 1.625 |
| 14 | 1.750 |
| 15 | 1.875 |
| 16 | 2.000 |
| 17 | 2.125 |
| 18 | 2.250 |
| 19 | 2.375 |
| 20 | 2.500 |

Specify length in increments of .125 inches (3.18 mm.)

Omit for screw clamp with saddle bars

**N**
Optional Compression Nut, Low Profile

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Environmental EMI Backshell Dimensions
## 390MS077, 390MS076, 390MB077 and 390MA077

STRAIGHT ENTRY
ROTATABLE COUPLING
390MS077

STRAIGHT ENTRY
DIRECT COUPLING
390MS076

CLAMP STYLE N
COMPRESSION NUT

45º ENTRY
ROTATABLE COUPLING
390MB077

90º ENTRY
ROTATABLE COUPLING
390MA077

ENTRY SADDLE CLAMP

## DIMENSIONS

| Size Code | A Thds. | B Max. | | C Max. | | Std. Length* | |
|---|---|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. | In. | mm. |
| 05 | .2500-32 | .470 | 11.94 | .350 | 8.89 | .750 | 19.05 |
| 06 | .3125-32 | .530 | 13.46 | .415 | 10.54 | .750 | 19.05 |
| 11 | .3750-32 | .570 | 14.48 | .570 | 14.48 | .750 | 19.05 |
| 07 | .4375-28 | .637 | 16.18 | .530 | 13.46 | .750 | 19.05 |
| 08 | .5000-28 | .700 | 17.78 | .595 | 15.11 | .750 | 19.05 |
| 09 | .5625-24 | .758 | 19.25 | .650 | 16.51 | .750 | 19.05 |
| 10 | .6250-24 | .819 | 20.80 | .715 | 18.16 | .750 | 19.05 |
| 12 | .6875-24 | .896 | 22.76 | .785 | 19.94 | .880 | 22.35 |
| 13 | .7500-20 | .930 | 23.62 | .930 | 23.62 | .880 | 22.35 |
| 14 | .9375-20 | 1.137 | 28.88 | 1.137 | 28.88 | 1.000 | 25.40 |
| 17 | 1.1875-18 | 1.387 | 35.23 | 1.387 | 35.23 | 1.130 | 28.70 |

*Choose standard length for best availability

## DIMENSIONS

| Cable Entry Code | Cable Sealing Dia. | | D Max. | | E Max. | | F Max. | | G Max. | | H | | Ø J Closed | | Ø K | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| | | | | | | | | | | | ± .010 | ± 0.25 | ± .030 | ± 0.76 | ± .010 | ± 0.25 |
| 01 | .109 | .031 | .603 | 15.32 | .681 | 17.30 | .724 | 18.39 | .802 | 20.37 | .496 | 12.60 | .110 | 2.79 | .398 | 10.11 |
| 02 | .172 | .078 | .603 | 15.32 | .681 | 17.30 | .724 | 18.39 | .802 | 20.37 | .582 | 14.78 | .170 | 4.32 | .460 | 11.68 |
| 03 | .234 | .140 | .603 | 15.32 | .681 | 17.30 | .724 | 18.39 | .802 | 20.37 | .656 | 16.66 | .230 | 5.84 | .523 | 13.28 |
| 04 | .297 | .203 | .629 | 15.98 | .707 | 17.96 | .786 | 19.96 | .864 | 21.95 | .726 | 18.44 | .300 | 7.62 | .585 | 14.86 |
| 05 | .359 | .265 | .629 | 15.98 | .707 | 17.96 | .786 | 19.96 | .864 | 21.95 | .885 | 22.48 | .360 | 9.14 | .647 | 16.43 |
| 06 | .422 | .328 | .655 | 16.64 | .733 | 18.62 | .848 | 21.54 | .926 | 23.52 | .952 | 24.18 | .420 | 10.67 | .710 | 18.03 |
| 07 | .484 | .390 | .655 | 16.64 | .733 | 18.62 | .848 | 21.54 | .926 | 23.52 | 1.018 | 25.86 | .480 | 12.19 | .773 | 19.63 |
| 08 | .547 | .453 | .707 | 17.96 | .785 | 19.94 | .911 | 23.14 | .989 | 25.12 | 1.084 | 27.53 | .550 | 13.97 | .835 | 21.21 |
| 09 | .609 | .515 | .707 | 17.96 | .785 | 19.94 | .911 | 23.14 | .989 | 25.12 | 1.148 | 29.16 | .610 | 15.49 | .897 | 22.78 |

Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse Molding and Banding Backshell Adapter With Lanyard Ordering Information

## 809-242

Banding Adapter with integrated lanyard

***BAND-IT® Strap***
Microband 600-057-1

***Micro Band Tool***
600-061

| Materials | |
|---|---|
| Shell | Aluminum Alloy or Stainless Steel |
| Band | 300 Series SST |
| Lanyard | Stainless Steel |

## HOW TO ORDER

**Sample Part Number**

| 809-242 | NF | - 6 | - 06 | - 08 | K |
|---|---|---|---|---|---|
| **Part Number** | **Shell Material/Finish** | **Lanyard Length** | **Shell Size Code** | **Cable Entry** | **Band Option** |
| **809-242** Straight Entry | **C** Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>**M** Aluminum / Electroless Nickel RoHS Compliant<br>**NF** Aluminum / Cadmium with Olive Drab Chromate<br>**ZN** Aluminum / Zinc-Nickel with Olive Drab Chromate<br>**ZNU** Aluminum / Zinc-Nickel with Black Chromate<br>**MT** Aluminum / Nickel-PTFE RoHS Compliant<br>**Z1** Stainless Steel / Passivated RoHS Compliant | Length in Inches, based on a 3/8 inch diameter mandel | Size Code / Thread Size<br>06 / .3125-32<br>08 / .5000-28<br>09 / .5625-24<br>10 / .6250-24 | Cable Entry Code / Cable Entry Dia. (In.)<br>06 / .237<br>07 / .325<br>08 / .389<br>09 / .445<br>10 / .514 | Omit for no band supplied<br>**K** Adapter is supplied with ***BAND-IT®*** shield termination band, pre-coiled |



Dimensions in inches (millimeters) and are subject to change without notice.

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# Series 80 Mighty Mouse
# Molding and Banding Backshell Adapter
# With Lanyard Dimensions
## 809-242

| Table I: Shell Size | | | |
|---|---|---|---|
| Shell Size | Ø B | | Thread C |
| 06 | .480 | (12.2) | .3125-32 UNEF-2B |
| 08 | .600 | (15.2) | .5000-28 UNEF-2B |
| 09 | .700 | (17.8) | .5625-24 UNEF-2B |
| 10 | .790 | (20.1) | .6250-24 UNEF-2B |

| Table II: Cable Entry | | |
|---|---|---|
| Cable Entry Code | Ø A | |
| 06 | .237 | (6.02) |
| 07 | .325 | (8.30) |
| 08 | .389 | (9.90) |
| 09 | .445 | (11.3) |
| 10 | .514 | (13.1) |

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SERIES 77

# FULL NELSON

## SHRINK BOOTS • CABLE TRANSITIONS • CONVOLUTED BOOTS

Nothing conjures up the image of an unbreakable hold like a Standing Full Nelson. Properly applied, this classic Greco-Roman wrestling move is simply unbeatable. We'd like to think the same holds true for our Series 77 Full Nelson Environmental Shrink Boots. Properly applied, these adhesive-lined shrink boots provide a dependable, leak-proof seal for interconnect cable assemblies. So if you're worried about sealing effectiveness, if you want long-lasting environmental protection, if you want an ingress prevention solution that won't lose it's grip after years and years of service, get a Series 77 Full Nelson—the environmental shrink boot with the iron grip of a championship wrestler.

Glenair®

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