

# Series 805 Mighty Mouse Triple-Start ACME Thread Receptacle 805-003 and 805-004 Ordering Information



Series 805



**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.

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.

Gold-Plated Crimp Contacts are held in place with beryllium copper retention clips. Contacts are removable.

| How To Order                               |   |  |  |             |          |          |
|--|---|--|--|-------------|----------|----------|
| <b>Sample Part Number</b>                  | <b>805-004</b>  | <b>-02</b>   | <b>NF</b>  | <b>9-10</b> | <b>P</b> | <b>A</b> |
| <b>Series (See Table I)</b>                | <b>805-003</b> = Receptacle with Banding Platform<br><b>805-004</b> = Receptacle with Accessory Thread  |  |  |             |          |          |
| <b>Shell Style (See Table II)</b>          | <b>-01</b> = In-line<br><b>-02</b> = Square Flange Front or Rear Mount<br><b>-12</b> = Square Flange Rear Mount Non-Locking Clinch Nuts<br><b>-22</b> = Square Flange Rear Mount Locking Clinch Nuts<br><b>-07</b> = Jam Nut for Rear Panel Mounting  |  |  |             |          |          |
| <b>Shell Material and Finish</b>           | <b>C</b> = Aluminum / Black Anodize (Non-Conductive); RoHS Compliant<br><b>M</b> = Aluminum / Electroless Nickel; RoHS Compliant<br><b>MT</b> = Aluminum / Nickel-PTFE RoHS Compliant<br><b>NF</b> = Aluminum / Cadmium with Olive Drab Chromate<br><b>ZNU</b> = Aluminum / Zinc-Nickel with Black Chromate<br><b>Z1</b> = Stainless Steel / Passivated; RoHS Compliant<br><b>ZB</b> = Stainless Steel / Olive Drab Chromate over Cadmium<br><b>ZC</b> = Stainless Steel / Zinc Cobalt Alloy/Black Chromate |  |  |             |          |          |
| <b>Shell Size - Insert Arrangement</b>     | See Contact Arrangements Page H-2   |  |  |             |          |          |
| <b>Contact Type</b>                        | <b>With contacts</b><br><b>P</b> = Pin<br><b>S</b> = Socket   | <b>Without contacts</b><br><b>A</b> = Pin Connector, less contacts<br><b>B</b> = Socket Connector, less contacts | <b>With 30 AWG Crimp Barrel</b><br><b>G</b> = #23 Pin<br><b>H</b> = #23 Socket |             |          |          |
| <b>Shell Key Positions (See Table III)</b> | <b>A</b> = Normal <b>B</b> = Pos. B <b>C</b> = Pos. C <b>D</b> = Pos. D <b>E</b> = Pos. E <b>F</b> = Pos. F   |  |  |             |          |          |

| Table I: Series                                    |  |
|--|--|
|  |  |
| <b>805-003</b><br>Receptacle with Banding Platform | <b>805-004</b><br>Receptacle with Accessory Thread |

| Table II: Shell Style            |                                       |                       |
|----------------------------------|---------------------------------------|-----------------------|
|                                  |                                       |                       |
| <b>-01</b><br>In-line Receptacle | <b>-02, -12, -22</b><br>Square Flange | <b>-07</b><br>Jam Nut |

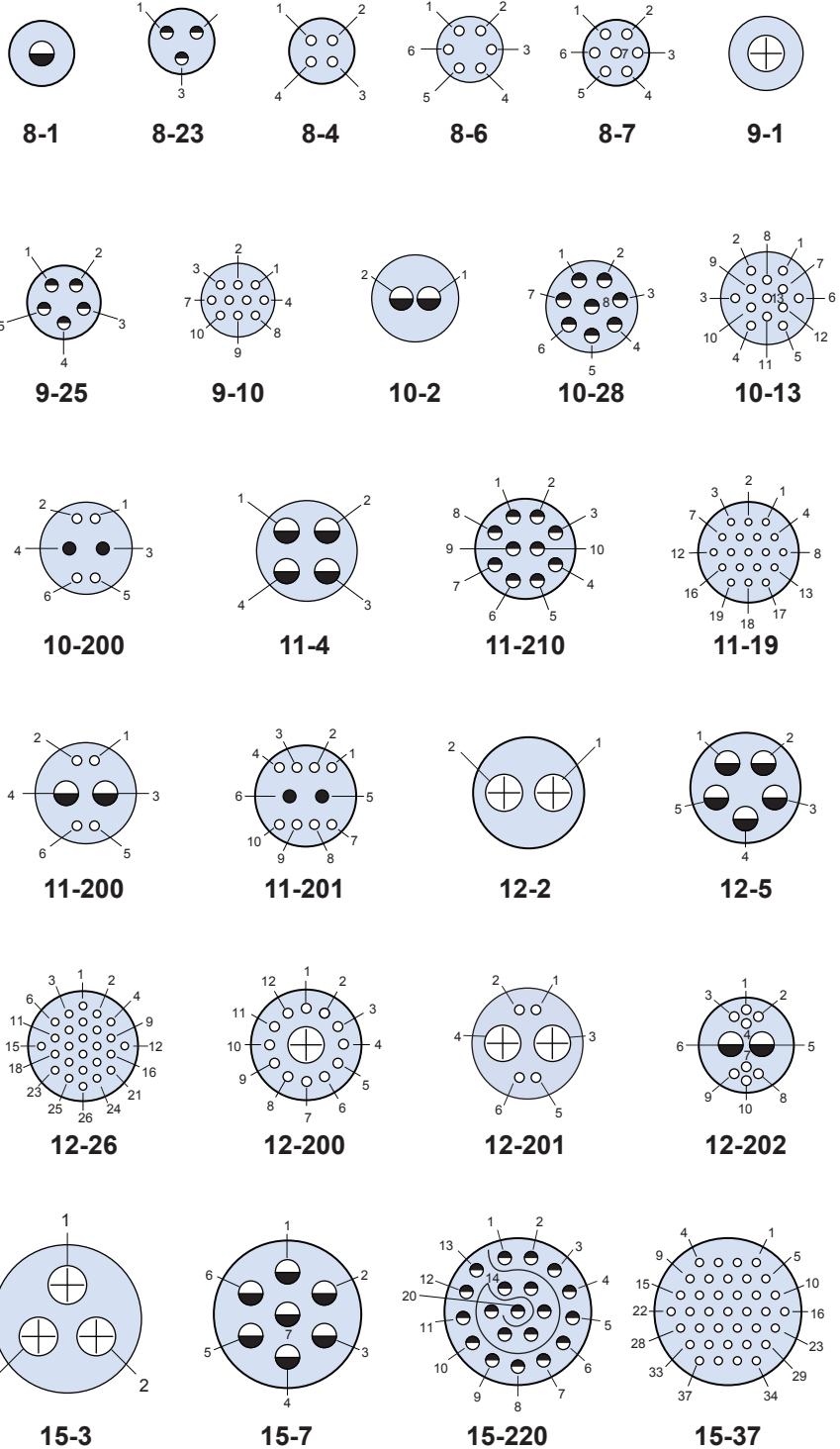
Dimensions in Inches (millimeters) are subject to change without notice.



# Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements

| Contact Arrangements |                 |     |       |     |      |    |
|----------------------|-----------------|-----|-------|-----|------|----|
| Contact Arr.         | No. of Contacts |     |       |     |      |    |
|                      | #23             | #20 | #20HD | #16 | #12* | #8 |
| 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   |      |    |
| 13-31                | 31              |     |       |     |      |    |
| 15-2                 |                 |     |       |     | 2    |    |
| 15-3                 |                 |     |       |     | 3    |    |
| 15-7                 |                 |     |       | 7   |      |    |
| 15-220               |                 |     | 20    |     |      |    |

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



\*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

### Contact Legend

#23 ◦ #20HD ◐ #20 ● #16 ◑ #12 ⊕

H

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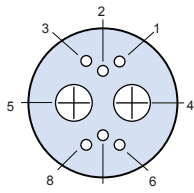
# Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements



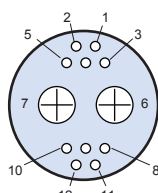
Series 805

| Contact Arrangements |                 |     |       |     |      |    |
|----------------------|-----------------|-----|-------|-----|------|----|
| Contact Arr.         | No. of Contacts |     |       |     |      |    |
|                      | #23             | #20 | #20HD | #16 | #12* | #8 |
| 15-37                | 37              |     |       |     |      |    |
| 15-200               | 6               |     |       |     | 2    |    |
| 15-201               | 10              |     |       |     | 2    |    |
| 15-202               | 20              |     |       | 2   |      |    |
| 15-203               | 12              |     |       | 4   |      |    |
| 15-204               | 12              |     |       |     | 2    |    |
| 15-205               | 4               |     |       |     | 4    |    |
| 18-5                 |                 |     |       |     | 5    |    |
| 18-12                |                 |     |       | 12  |      |    |
| 18-235               |                 |     | 35    |     |      |    |
| 18-55                | 55              |     |       |     |      |    |
| 18-204               | 40              |     |       | 2   |      |    |
| 18-205               | 32              |     |       | 4   |      |    |
| 18-206               | 34              |     |       | 2   |      |    |
| 18-207               | 20              |     |       | 4   |      |    |
| 18-208               | 32              |     |       |     |      | 1  |
| 19-7                 |                 |     |       |     | 7    |    |
| 19-14                |                 |     |       | 14  |      |    |
| 19-241               |                 |     | 41    |     |      |    |

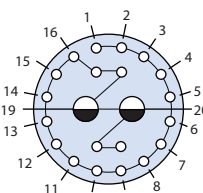
## Mating Face View of Pin Connector (socket connector numbers are reversed)



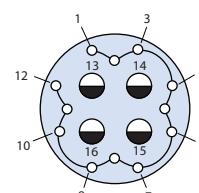
**15-200**



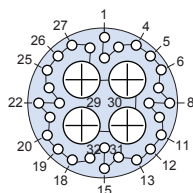
**15-201**



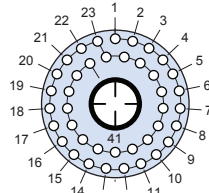
**15-202**



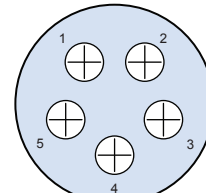
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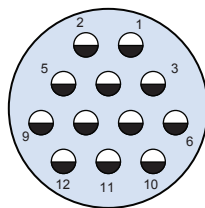
**15-204**



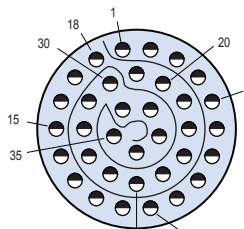
**15-205**



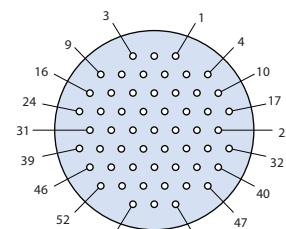
**18-5**



**18-12**



**18-235**

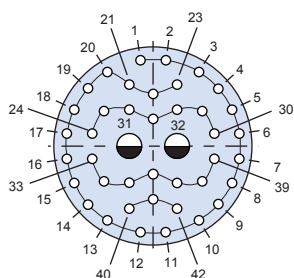


**18-55**

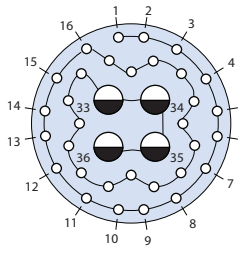
\*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

### Contact Legend

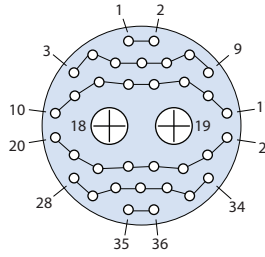
#23 ◦ #20HD ◐ #20 ● #16 ◑ #12 ⊕



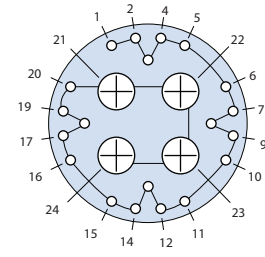
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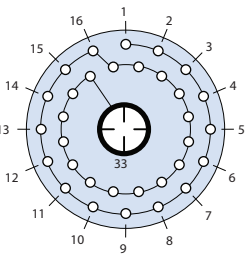
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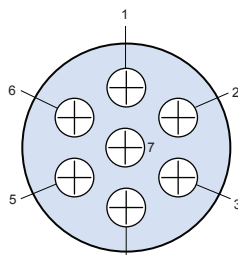
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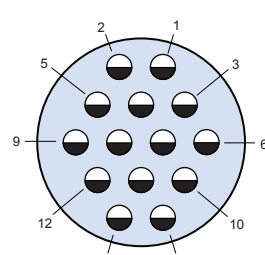
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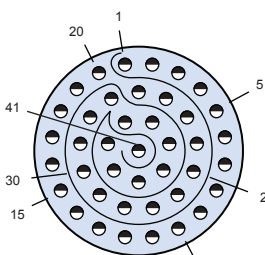
**18-208**



**19-7**



**19-14**



**19-241**

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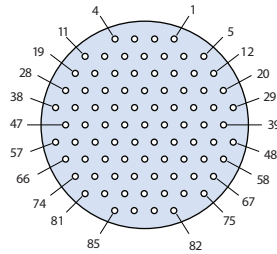




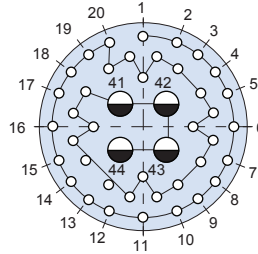
# Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements

| Contact Arr. | No. of Contacts |     |       |     |      |    |
|--------------|-----------------|-----|-------|-----|------|----|
|              | #23             | #20 | #20HD | #16 | #12* | #8 |
| 19-85        | 85              |     |       |     |      |    |
| 19-203       | 40              |     |       | 4   |      |    |
| 19-204       | 28              |     |       |     | 4    |    |
| 19-205       |                 |     |       |     |      |    |
| 21-19        |                 |     |       | 19  |      |    |
| 21-255       |                 |     | 55    |     |      |    |
| 21-100       | 100             |     |       |     |      |    |
| 21-201       | 44              |     |       |     |      | 2  |
| 21-202       | 12              |     |       |     |      | 4  |
| 23-12        |                 |     |       |     | 12   |    |
| 23-22        |                 |     |       | 22  |      |    |
| 23-269       |                 |     | 69    |     |      |    |
| 23-130       | 130             |     |       |     |      |    |
| 23-200       | 28              |     |       |     |      | 4  |

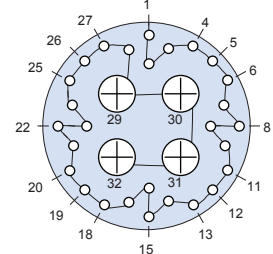
**Mating Face View of Pin Connector**  
(socket connector numbers are reversed)



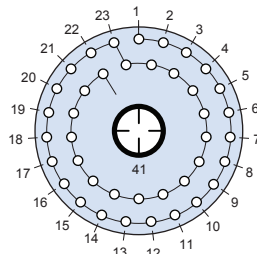
**19-85**



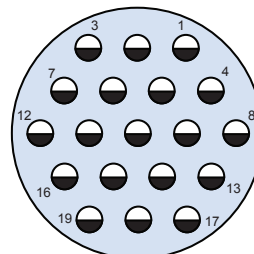
**19-203**



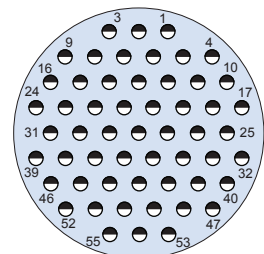
**19-204**



**19-205**



**21-19**

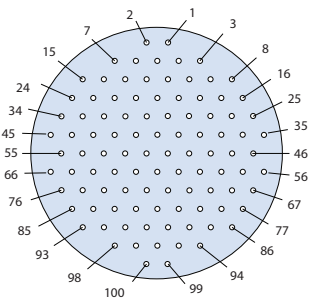


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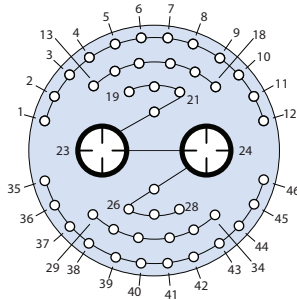
\*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

**Contact Legend**

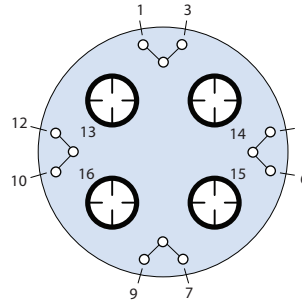
#23 ◦ #20HD ◐ #20 ● #16 ◑ #12 ⊕



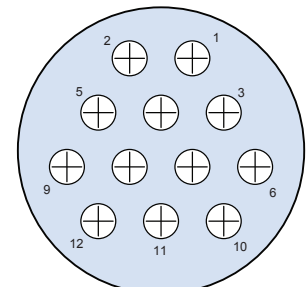
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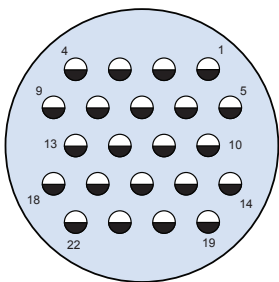
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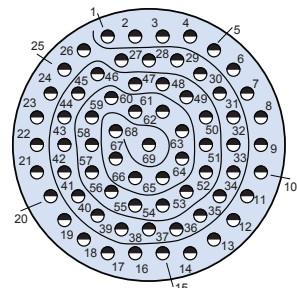
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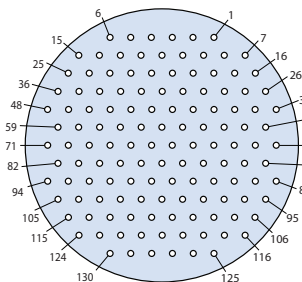
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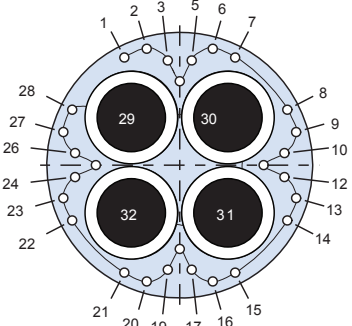
**23-22**



**23-269**



**23-130**



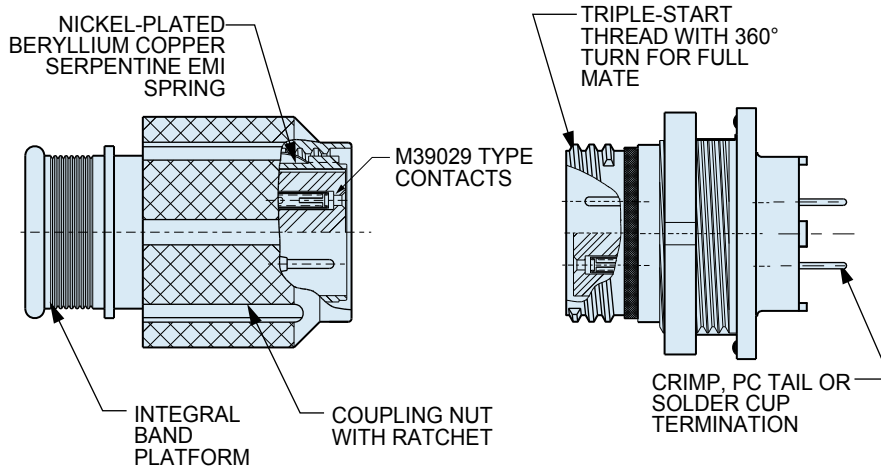
**21-200**

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

# Series 805 Mighty Mouse Triple-Start Threaded Coupling General Information



Series 805



### 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 A, #20HD-7.5 A, #16-13 A, #12-23 A  |
| Dielectric Withstanding Voltage | #23-750 VAC, #20HD-1000 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 low frequency from 100MHz to 1000MHz. and 65 dB minimum high frequency from 1 GHz 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 μlnc 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) are subject to change without notice.