

# Series 804 Push-Pull Mighty Mouse Receptacle Connector

## 804-003 and 804-004 Ordering Information



Series 804



**Front Panel Mount Jam-Nut**

**Series 804 Receptacle Connectors** feature integral band platform for direct attachment of 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 available including front or rear panel mount jam-nut connectors and in-line receptacles for free-hanging cables. O-rings inside the receptacle provide a dynamic, water tight seal when mated. Gold-plated spring provides secure mechanical retention and low shell-to-shell resistance for excellent EMI shielding. Crimp removable contacts are copper alloy and gold plated.

| How To Order                           |                                                                                                                                                                                                                                                                                                                                                                         |            |          |             |          |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|----------|--|
| <b>Sample Part Number</b>              | <b>804-003</b>                                                                                                                                                                                                                                                                                                                                                          | <b>-01</b> | <b>M</b> | <b>7-10</b> | <b>P</b> |  |
| <b>Series (See Table I)</b>            | <b>804-003</b> = Receptacle with Banding Platform<br><b>804-004</b> = Receptacle with Accessory Thread                                                                                                                                                                                                                                                                  |            |          |             |          |  |
| <b>Shell Style (See Table II)</b>      | <b>-00</b> = Front Panel Mount Jam-Nut<br><b>-01</b> = In-Line<br><b>-07</b> = Rear Panel Mount Jam-Nut                                                                                                                                                                                                                                                                 |            |          |             |          |  |
| <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 |            |          |             |          |  |
| <b>Shell Size - Insert Arrangement</b> | See Contact Arrangements Page G-2                                                                                                                                                                                                                                                                                                                                       |            |          |             |          |  |
| <b>Contact Type</b>                    | <b>Connector supplied without contacts</b><br><b>A</b> = Pin, Crimp<br><b>B</b> = Socket, Crimp<br><b>Contacts are not installed in connectors supplied with signal and/or power crimp contacts. Coaxial contacts and non-standard signal contacts are ordered separately.</b>                                                                                          |            |          |             |          |  |
| <b>Polarization (See Table III)</b>    | <b>Omit</b> = Single Master Key <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>804-003</b><br>Receptacle with Banding Platform | <b>804-004</b><br>Receptacle with Accessory Thread |

| Table II: Shell Style                          |                                              |                                               |
|------------------------------------------------|----------------------------------------------|-----------------------------------------------|
|                                                |                                              |                                               |
| <b>-00</b><br>Jam-Nut for Front Panel Mounting | <b>-01</b><br>In-Line for Free-Hanging Cable | <b>-07</b><br>Jam-Nut for Rear Panel Mounting |

| Table III: Keyway Positions |      |      |
|-----------------------------|------|------|
|                             | A°   | B°   |
| Pos.                        | A°   | B°   |
| A                           | 150° | 210° |
| B                           | 75°  | 210° |
| C                           | 95°  | 230° |
| D                           | 140° | 275° |
| E                           | 75°  | 275° |
| F                           | 95°  | 210° |

### NOTES

1. Contacts are crimp type, and used in a rear release retention system
2. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender
3. Grommet protrudes for power/combo arrangements

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



# Series 804 Push-Pull Mighty Mouse Receptacle Connector

## 804-004-07 and 804-003-07 Dimensions

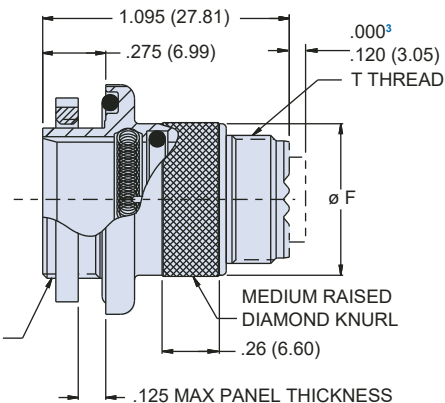
### Jam-nut, rear panel mount receptacle - shell style 07



1. Grommet protrudes for power/combo arrangements

#### Integral Band Platform

804-003-07

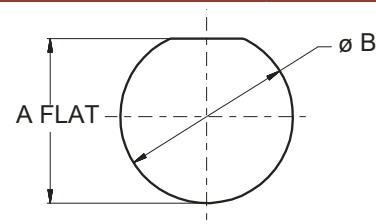


#### Accessory Thread

804-004-07

| Dimensions |                 |                  |                  |                 |                 |                  |                  |
|------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|------------------|
| Shell Size | A Thread        | Ø B              | Ø C              | D Flat          | Ø E             | Ø F              | T Threads        |
| 5          | .4375-32 UN-2A  | .790<br>(20.07)  | .562<br>(14.27)  | .415<br>(10.54) | .246<br>(6.25)  | .450<br>(11.43)  | .2500-32 UNEF-2A |
| 6          | .5000-32 UN-2A  | .830<br>(21.08)  | .625<br>(15.88)  | .467<br>(11.86) | .286<br>(7.26)  | .480<br>(12.19)  | .3125-32 UNEF-2A |
| 7          | .6250-28 UN-2A  | .900<br>(22.86)  | .750<br>(19.05)  | .594<br>(15.09) | .390<br>(9.91)  | .580<br>(14.73)  | .4375-28 UNEF-2A |
| 8          | .6250-28 UN-2A  | .900<br>(22.86)  | .750<br>(19.05)  | .594<br>(15.09) | .442<br>(11.23) | .603<br>(15.32)  | .5000-28 UNEF-2A |
| 9          | .6875-28 UN-2A  | 1.000<br>(25.40) | .812<br>(20.62)  | .655<br>(16.64) | .500<br>(12.70) | .695<br>(17.65)  | .5625-24 UNEF-2A |
| 10         | .7500-28 UN-2A  | 1.085<br>(27.56) | .875<br>(22.23)  | .721<br>(18.31) | .564<br>(14.33) | .735<br>(18.67)  | .6250-24 UNEF-2A |
| 11         | .8125-28 UN-2A  | 1.135<br>(28.83) | .938<br>(23.83)  | .788<br>(20.02) | .608<br>(15.44) | .810<br>(20.57)  | .6875-24 UNEF-2A |
| 12         | .8750-28 UN-2A  | 1.180<br>(29.97) | 1.000<br>(25.40) | .843<br>(21.41) | .650<br>(16.51) | .880<br>(22.35)  | .6875-24 UNEF-2A |
| 14         | 1.0000-28 UN-2A | 1.325<br>(33.65) | 1.125<br>(28.58) | .968<br>(24.59) | .805<br>(20.45) | 1.010<br>(25.65) | .9375-20 UNEF-2A |

#### Jam-Nut Rear Panel Mount Cutout Dimensions



| Shell Size | A Flat                       | Ø B                            |
|------------|------------------------------|--------------------------------|
| 5          | .425 (10.80)<br>.421 (10.69) | .448 (11.38)<br>.443 (11.25)   |
| 6          | .477 (12.12)<br>.473 (12.01) | .510 (12.95)<br>.505 (12.83)   |
| 7          | .590 (14.99)<br>.586 (14.88) | .635 (16.13)<br>.630 (16.00)   |
| 8          | .604 (15.34)<br>.600 (15.24) | .635 (16.13)<br>.630 (16.00)   |
| 9          | .665 (16.89)<br>.661 (16.79) | .698 (17.73)<br>.693 (17.60)   |
| 10         | .731 (18.57)<br>.727 (18.47) | .760 (19.30)<br>.755 (19.18)   |
| 11         | .800 (20.32)<br>.796 (20.22) | .823 (20.90)<br>.880 (22.35)   |
| 12         | .853 (21.67)<br>.849 (21.56) | .885 (22.48)<br>.880 (22.35)   |
| 14         | .978 (24.84)<br>.974 (24.74) | 1.010 (25.65)<br>1.005 (25.53) |

#### Material and Finish

- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulator: LCP
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Spring: CRES / gold plated

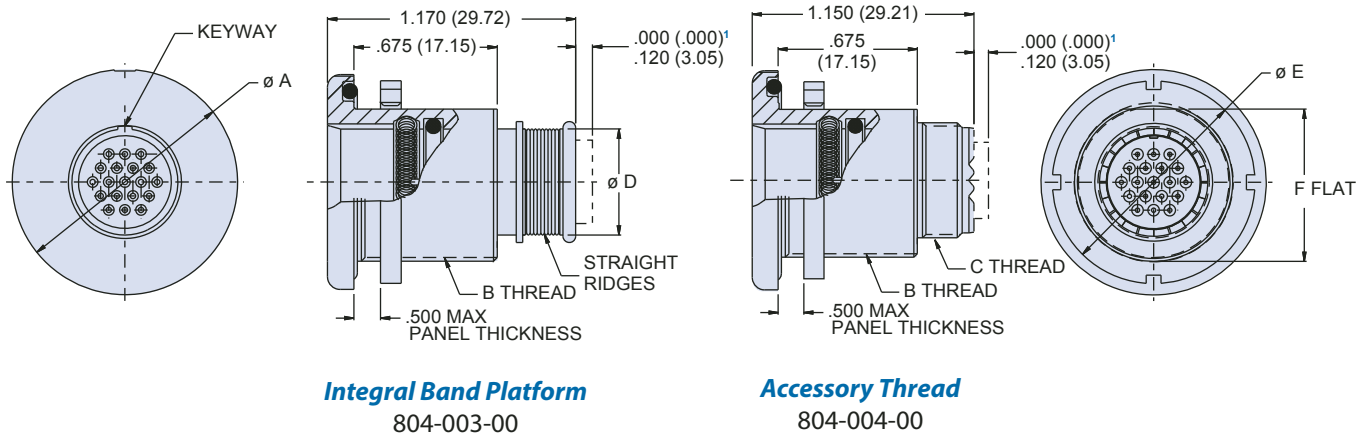
Dimensions in Inches (millimeters) are subject to change without notice.

# Series 804 Push-Pull Mighty Mouse Receptacle Connector 804-004-00 and 804-003-00 Dimensions



Series 804

## Jam-nut, front panel mount receptacle - shell style 00



| Dimensions |               |                 |                  |              |               |               |
|------------|---------------|-----------------|------------------|--------------|---------------|---------------|
| Shell Size | Ø A           | B Threads       | C Threads        | Ø D          | Ø E           | F Flat        |
| 5          | .830 (21.08)  | .5000-32 UN-2A  | .2500-32 UNEF-2A | .246 (6.25)  | .625 (15.88)  | .470 (11.94)  |
| 6          | .885 (22.48)  | .5625-32 UN-2A  | .3125-32 UNEF-2A | .286 (7.26)  | .688 (17.48)  | .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 (27.30) | .7500-28 UN-2A  | .5625-24 UNEF-2A | .500 (12.70) | .875 (22.23)  | .720 (18.29)  |
| 10         | 1.140 (28.96) | .8125-28 UN-2A  | .6250-24 UNEF-2A | .564 (14.33) | .938 (23.83)  | .788 (20.02)  |
| 11         | 1.190 (30.23) | .8750-28 UN-2A  | .6875-24 UNEF-2A | .608 (15.44) | 1.000 (25.40) | .843 (21.41)  |
| 12         | 1.340 (34.04) | 1.0000-28 UN-2A | .6875-24 UNEF-2A | .650 (16.51) | 1.125 (28.58) | .970 (24.64)  |
| 14         | 1.390 (35.31) | 1.0620-20 UN-2A | .9375-20 UNEF-2A | .805 (20.45) | 1.162 (29.51) | 1.020 (25.91) |

| Jam-Nut Front Panel Mount<br>Cutout Dimensions |                                |               |
|------------------------------------------------|--------------------------------|---------------|
|                                                |                                |               |
| Shell Size                                     | N Flat                         | Ø M           |
| 5                                              | .482 (12.24)<br>.478 (12.14)   | .510 (12.95)  |
| 6                                              | .542 (13.77)<br>.538 (13.67)   | .575 (14.60)  |
| 7                                              | .676 (17.17)<br>.671 (17.04)   | .698 (17.73)  |
| 8                                              | .676 (17.17)<br>.671 (17.04)   | .698 (17.73)  |
| 9                                              | .732 (18.59)<br>.728 (18.49)   | .760 (19.30)  |
| 10                                             | .801 (20.35)<br>.796 (20.22)   | .822 (20.88)  |
| 11                                             | .855 (21.72)<br>.851 (21.62)   | .885 (22.48)  |
| 12                                             | .982 (24.94)<br>.978 (24.84)   | 1.010 (25.65) |
| 14                                             | 1.032 (26.21)<br>1.028 (26.11) | 1.075 (27.30) |

### Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: LCP
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Spring: CRES / gold plated

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

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Series 80 Mighty Mouse

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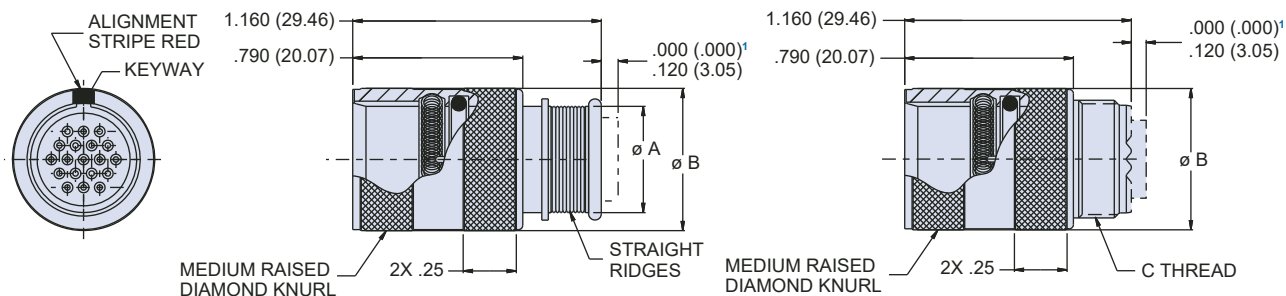
Rev. 06.04.19



# Series 804 Push-Pull Mighty Mouse Receptacle Connector

## 804-004-01 and 804-003-01 Dimensions

### Cable receptacle - shell style 01



#### Integral Band Platform

804-003-01

#### Accessory Thread

804-004-01

| Dimensions |              |               |                  |
|------------|--------------|---------------|------------------|
| Shell Size | Ø A          | Ø B           | C Threads        |
| 5          | .246 (6.25)  | .450 (11.43)  | .2500-32 UNEF-2A |
| 6          | .286 (7.26)  | .480 (12.19)  | .3125-32 UNEF-2A |
| 7          | .390 (9.91)  | .580 (14.73)  | .4375-28 UNEF-2A |
| 8          | .442 (11.23) | .603 (15.32)  | .5000-28 UNEF-2A |
| 9          | .500 (12.70) | .695 (17.65)  | .5625-24 UNEF-2A |
| 10         | .564 (14.33) | .735 (18.67)  | .6250-24 UNEF-2A |
| 11         | .608 (15.44) | .810 (20.57)  | .6875-24 UNEF-2A |
| 12         | .650 (16.51) | .880 (22.35)  | .6875-24 UNEF-2A |
| 14         | .805 (20.45) | 1.010 (25.65) | .9375-20 UNEF-2A |

#### Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: LCP
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Spring: CRES / gold plated

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