



# 500-010 EMI/RFI Micro-D Banding Backshell Round Cable Entry



**Glenair's Most Popular Micro-D Backshell** is stocked in all sizes. Choose straight, side or 45° cable entry.

**Rugged One-Piece Aluminum shell** with stainless steel hardware, available in standard nickel plating, or choose optional finishes.

**17-7PH Stainless Steel Clips** attach the backshell to the connector. These backshells accept standard and micro BandMaster™ ATS shield termination straps.

Note: It is easy to exceed the maximum allowable wire bundle diameter for the cable entry on these miniaturized backshells. Please see the table on C-3 for assistance, or choose an elliptical backshell entry design instead.

| How To Order EMI/RFI Backshells |   |  |  |  |   |          |           |
|---------------------------------|---|--|--|--|---|----------|-----------|
| <b>Sample Part Number</b>       |   |  | <b>500T010</b>   | <b>M</b>   | <b>25</b>                               | <b>H</b> | <b>08</b> |
| <b>Series</b>                   | <b>500T010</b> - Top Entry<br><b>500E010</b> - 45° Entry  | <b>500S010</b> - Side Entry<br><b>500D010</b> - Dual 45° | (See Table III)  |  |   |          |           |
| <b>Shell Finish</b>             | <b>A</b> - Cadmium Plate/Bright Dip<br><b>B</b> - Cadmium Plate/Olive Drab<br><b>B1</b> - Cadmium Plate/Olive Drab, Type II Class 1<br><b>J</b> - Gold Iridite Over Cadmium; Plate Over Nickel<br><b>M</b> - Electroless Nickel |  | <b>N</b> - Cadmium Plate/Olive Drab; Over Nickel<br><b>NF</b> - Cad/O. D. Over Electroless; Nickel (1000 Hour Salt Spray)<br><b>T</b> - Cadmium Plate/Bright Dip Over Nickel<br><b>Z2</b> - Gold Plate<br><b>Z1</b> - Passivate, Stainless; Steel Material |  |   |          |           |
| <b>Shell Size</b>               | <b>09, 15, 21, 25, 31, 37, 51, 51-2, 67, 69, 100</b> (See Table III)  |  |  |  |   |          |           |
| <b>Hardware Option</b>          | <b>B</b> - (2) Fillister Head Jackscrew<br><b>BJ</b> - (2) Male Fillister Head<br><b>H</b> - (2) Hex Head Jackscrew<br><b>HJ</b> - (2) Male Hex<br><b>E</b> - (2) Extended Jackscrew  |  | <b>EJ</b> - (2) Male Extended (Style T and S Only)<br><b>F</b> - (2) Jackpost, Female<br><b>FB</b> - (1) Female Jackpost, (1) Male Filister Head<br><b>FH</b> - (1) Female Jackpost, (1) Male Hex Socket<br><b>N</b> - No Hardware                         |  |   |          |           |
| <b>Cable Entry Code</b>         | <b>04</b> - .125 (3.2)<br><b>09</b> - .281 (7.1)  | <b>05</b> - .156 (4.0)<br><b>10</b> - .312 (7.9)         | <b>06</b> - .188 (4.8)<br><b>11</b> - .344 (8.7)   | <b>07</b> - .219 (5.6)<br><b>12</b> - .375 (9.5) | <b>08</b> - .250 (6.4)<br>(See Table I) |          |           |
| <b>EMI Band Strap Option</b>    | <b>Omit</b> (Leave Blank) - Band Not Included<br>Use the following codes to order band strap with the connector. For best availability, order band separately.  |  |  |  |   |          |           |
|                                 | <b>Standard Band</b> - .250" Wide<br><b>B</b> - Uncoiled Band Included<br><b>K</b> - Coiled Band Included   |  | <b>Micro Band</b> - .125" Wide<br><b>M</b> - Uncoiled Band Included<br><b>L</b> - Coiled Band Included   |  |   |          |           |

| Shell Size | Style E & T | Style D | Style S |
|------------|-------------|---------|---------|
| 9          | 08          | 06      | 09      |
| 15         | 08          | 08      | 10      |
| 21         | 08          | 08      | 10      |
| 25         | 08          | 08      | 12      |
| 31         | 09          | 09      | 12      |
| 37         | 09          | 09      | 12      |
| 51         | 10          | 10      | 12      |
| 51-2       | 09          | 09      | 12      |
| 67         | 09          | 09      | 12      |
| 69         | 10          | 10      | 12      |
| 100        | 12          | 12      | 12      |

| Cable Size | P ±.015 |       | R Dia. Max |      |
|------------|---------|-------|------------|------|
|            | In. ±   | mm. ± | In.        | mm.  |
| 04         | .125    | 3.2   | .296       | 7.5  |
| 05         | .156    | 4.0   | .327       | 8.3  |
| 06         | .188    | 4.8   | .359       | 9.1  |
| 07         | .219    | 5.6   | .390       | 9.9  |
| 08         | .250    | 6.4   | .421       | 10.7 |
| 09         | .281    | 7.1   | .452       | 11.5 |
| 10         | .312    | 7.9   | .484       | 12.3 |
| 11         | .344    | 8.7   | .515       | 13.1 |
| 12         | .375    | 9.5   | .546       | 13.7 |

### Notes

1. Assembly identified with manufacturer's name and P/N
1. 51-2 shell size is for a special 51 position 2 row Micro D connector
2. Knurled or ribbed banding platform - manufactures option
3. EMI gasket mounts between mating connector and panel

### Materials/Finish

- Shell: Aluminum Alloy 6061 -T6 Per QQ-A-200, QQ-A-225 (Machined Components)  
Aluminum Alloy 6061-T6 Per QQ-A-591 (A380) (Die-Cast Components)
- Clips, E-Rings: 17-7PH Stainless Steel
- Jackscrews, Washers, Jackposts: 300 Series Stainless Steel, Passivated

**500-010**  
**EMI/RFI Micro-D Banding Backshell**  
**Round Cable Entry**



MIL-DTL-83513  
 Micro-D

**Table III: Dimensions**



| Size | A Max. |       | B Max. |       | C     |       | D Max. |       | E Max. |       | F Max. |       | G Max. |       | H Max. |       | J Max. |       | K    |       | L Max. |       | M Max. |       | N Max. |       |
|------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------|-------|--------|-------|--------|-------|--------|-------|
|      | In.    | mm.   | In.    | mm.   | In.   | mm.   | In.    | mm.   | In.    | mm.   | In.    | mm.   | In.    | mm.   | In.    | mm.   | In.    | mm.   | In.  | mm.   | In.    | mm.   | In.    | mm.   | In.    | mm.   |
| 09   | .850   | 21.59 | .370   | 9.40  | .565  | 14.35 | .780   | 19.81 | .410   | 10.41 | .350   | 8.89  | .637   | 16.18 | .350   | 8.89  | .637   | 16.18 | .435 | 11.05 | 1.040  | 26.42 | 1.000  | 25.40 | .680   | 17.27 |
| 15   | 1.000  | 25.40 | .370   | 9.40  | .715  | 18.16 | .910   | 23.11 | .580   | 14.73 | .470   | 11.94 | .673   | 17.09 | .470   | 11.94 | .673   | 17.09 | .440 | 11.2  | 1.170  | 29.72 | 1.030  | 26.16 | .730   | 18.54 |
| 21   | 1.150  | 29.21 | .370   | 9.40  | .865  | 21.97 | 1.030  | 26.16 | .740   | 18.80 | .590   | 14.99 | .707   | 17.95 | .590   | 14.99 | .707   | 17.95 | .458 | 11.63 | 1.290  | 32.77 | 1.050  | 26.67 | .765   | 19.43 |
| 25   | 1.250  | 31.75 | .370   | 9.40  | .965  | 24.51 | 1.090  | 27.69 | .850   | 21.59 | .650   | 16.51 | .748   | 19.00 | .650   | 16.51 | .748   | 19.00 | .483 | 12.27 | 1.350  | 34.29 | 1.090  | 27.69 | .830   | 21.08 |
| 31   | 1.400  | 35.56 | .370   | 9.40  | 1.115 | 28.32 | 1.150  | 29.21 | .980   | 24.89 | .710   | 18.03 | .756   | 19.20 | .710   | 18.03 | .756   | 19.20 | .476 | 12.09 | 1.420  | 36.07 | 1.130  | 28.70 | .890   | 22.61 |
| 37   | 1.550  | 39.37 | .370   | 9.40  | 1.265 | 32.13 | 1.190  | 30.23 | 1.130  | 28.70 | .750   | 19.05 | .774   | 19.66 | .750   | 19.05 | .774   | 19.66 | .478 | 12.14 | 1.450  | 36.83 | 1.230  | 31.24 | .955   | 24.26 |
| 51   | 1.500  | 38.10 | .410   | 10.41 | 1.215 | 30.86 | 1.220  | 30.99 | 1.080  | 27.43 | .780   | 19.81 | .859   | 21.82 | .780   | 19.81 | .859   | 21.82 | .548 | 13.91 | 1.480  | 37.59 | 1.250  | 31.75 | 1.005  | 25.53 |
| 51-2 | 1.910  | 48.51 | .370   | 9.40  | 1.615 | 41.02 | 1.220  | 30.99 | 1.510  | 38.35 | .780   | 19.81 | .859   | 21.82 | .780   | 19.81 | .859   | 21.82 | .548 | 13.91 | 1.480  | 37.59 | 1.250  | 31.75 | 1.005  | 25.53 |
| 67   | 2.310  | 58.67 | .370   | 9.40  | 2.015 | 51.18 | 1.220  | 30.99 | 1.880  | 47.75 | .780   | 19.81 | .859   | 21.82 | .780   | 19.81 | .859   | 21.82 | .548 | 13.91 | 1.480  | 37.59 | 1.250  | 31.75 | 1.005  | 25.53 |
| 69   | 1.810  | 45.97 | .410   | 10.41 | 1.515 | 38.48 | 1.220  | 30.99 | 1.380  | 35.05 | .780   | 19.81 | .859   | 21.82 | .780   | 19.81 | .859   | 21.82 | .548 | 13.91 | 1.480  | 37.59 | 1.250  | 31.75 | 1.005  | 25.53 |
| 100  | 2.235  | 56.77 | .460   | 11.68 | 1.800 | 45.72 | 1.280  | 32.51 | 1.470  | 37.34 | .840   | 21.34 | 1.014  | 25.76 | .840   | 21.34 | 1.014  | 25.76 | .687 | 17.45 | 1.580  | 40.13 | 1.320  | 33.53 | 1.080  | 27.43 |