

**507-175**  
**Straight, Top, and 45° Entry EMI/RFI**  
**Elliptical Banding Backshell**



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

**Straight, 45° and Right Angle** elliptical backshell provides plenty of working room for complicated wiring situations.

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

| How To Order EMI/RFI Elliptical Backshells |   |  |   |  |
|--|---|--|---|--|
| <b>Sample Part Number</b>                  | 507E175 M 25 04   |  |   |  |
| <b>Series</b>                              | 507T175 - Top Entry 507S175 - Side Entry 507E175 - 45° Side Entry (See Table I) |  |   |  |
| <b>Shell Finish</b>                        | E - Chem Film (Alodyne)<br>M - Electroless Nickel                               | J - Cadmium, Yellow Chromate<br>NF - Cadmium, Olive Drab | Z2 - Gold   |  |
| <b>Connector Size</b>                      | 09, 15, 21, 25, 31, 37 51, 51-2, 67, 69, 100 (See Table III)                    |  |   |  |
| <b>Cable Entry Code</b>                    | 01, 02, 03, 04, 05, 06, 07, 08 (See Table IV)                                   |  |   |  |
| <b>Hardware Option</b>                     | OMIT (Leave Blank) - Fillister Head Jackscrew<br>E - Extended Jackscrew         |  | H - Hex Head Jackscrew<br>F - Jackpost, Female (See Table II) |  |

| Table I: Entry Styles |                       |                      |
|-----------------------|-----------------------|----------------------|
| 507T175<br>Top Entry  | 507S175<br>Side Entry | 507E175<br>45° Entry |
|                       |                       |                      |

**Materials**

(See Ordering Info For Finish Options)

- 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: 17-7PH Stainless Steel
- Jackscrews, Washers, Jackposts: 300 Series Stainless Steel, Passivated

| Table II: Hardware Option    |                        |   |                      |
|------------------------------|------------------------|---|----------------------|
|                              |                        |   |                      |
| B - Fillister Head Jackscrew | H - Hex Head Jackscrew | E - Extended Jackscrew<br>(Not for 45° Entry) | F - Jackpost, Female |





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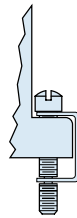
Straight, Top, and 45° Entry EMI/RFI Elliptical Banding Backshell

Table III: Dimensions



Table IV: Cable Entry Sizes

| Cable Entry Code | D         |           | E         |           | Available on Shell Size |
|------------------|-----------|-----------|-----------|-----------|-------------------------|
|                  | In. ±.010 | mm. ±0.25 | In. ±.010 | mm. ±0.25 |                         |
| 01               | .344      | 8.74      | .290      | 7.37      | 09 Thru 100             |
| 02               | .494      | 12.55     | .290      | 7.37      | 15 Thru 100             |
| 03               | .644      | 16.36     | .290      | 7.37      | 21 Thru 100             |
| 04               | .744      | 18.90     | .304      | 7.72      | 25 Thru 100             |
| 05               | .894      | 21.34     | .304      | 7.72      | 31 Thru 100             |
| 06               | .994      | 25.25     | .304      | 7.72      | 37 Thru 100             |
| 07               | 1.044     | 26.52     | .304      | 7.72      | 37 and 100              |
| 08               | 1.024     | 26.01     | .384      | 9.75      | 100                     |



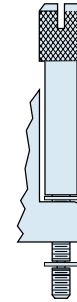
STANDARD FILLISTER HEAD JACKSCREW



CODE H HEX HEAD JACKSCREW



CODE F FEMALE JACKPOST



CODE E EXTENDED JACKSCREW

| Size | A Max. |       | B Max. |       | C     |       | F Max. |       | G Max. |       | H Max. |       | J Max. |       | K Max. |       |
|------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|      | 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 | .782   | 19.86 | .970   | 24.64 | .668   | 16.97 | .673   | 17.09 | .851   | 21.62 |
| 15   | 1.000  | 25.40 | .370   | 9.40  | .715  | 18.16 | .832   | 21.13 | .970   | 24.64 | .668   | 16.97 | .673   | 17.09 | .876   | 22.25 |
| 21   | 1.150  | 29.21 | .370   | 9.40  | .865  | 21.97 | .882   | 22.40 | .970   | 24.64 | .668   | 16.97 | .673   | 17.09 | .901   | 22.89 |
| 25   | 1.250  | 31.75 | .370   | 9.40  | .965  | 24.51 | .932   | 23.67 | .990   | 25.15 | .678   | 17.22 | .700   | 17.78 | .943   | 23.95 |
| 31   | 1.400  | 35.56 | .370   | 9.40  | 1.115 | 28.32 | .972   | 24.69 | .990   | 25.15 | .678   | 17.22 | .700   | 17.78 | .963   | 24.46 |
| 37   | 1.550  | 39.37 | .370   | 9.40  | 1.265 | 32.13 | .972   | 24.69 | .990   | 25.15 | .678   | 17.22 | .700   | 17.78 | .983   | 24.97 |
| 51   | 1.500  | 38.10 | .410   | 10.41 | 1.215 | 30.86 | 1.092  | 27.74 | 1.030  | 26.16 | .698   | 17.73 | .758   | 19.25 | 1.050  | 26.67 |
| 51-2 | 1.910  | 48.51 | .370   | 9.40  | 1.615 | 41.02 | 1.092  | 27.74 | 1.030  | 26.16 | .698   | 17.73 | .758   | 19.25 | 1.050  | 26.67 |
| 67   | 2.310  | 58.67 | .370   | 9.40  | 2.015 | 51.18 | 1.092  | 27.74 | 1.030  | 26.16 | .698   | 17.73 | .758   | 19.25 | 1.050  | 26.67 |
| 69   | 1.810  | 45.97 | .410   | 10.41 | 1.515 | 38.48 | 1.092  | 27.74 | 1.030  | 26.16 | .698   | 17.73 | .758   | 19.25 | 1.050  | 26.67 |
| 100  | 2.235  | 56.77 | .460   | 11.68 | 1.800 | 45.72 | 1.157  | 29.39 | 1.090  | 27.69 | .723   | 18.36 | .824   | 20.93 | 1.130  | 28.70 |

M