

# EMI/RFI Elliptical Split Shell Banding Backshell

## 507-178



**Split Backshell With Elliptical Cable Entry** provides added room for larger wire bundles. Terminate cable shields with **BAND-IT®** microbands.

**Choose Screwlocks or Jackscrews** 507-178 backshells offer two ways to attach mating connectors. **Jackscrews** must be tightened in order to mate the connectors.

**Screwlocks** allow the connectors to be mated prior to engaging the screws.

**Rugged Aluminum** housing with stainless steel hardware, available in standard nickel plating, or choose optional finishes.

### HOW TO ORDER 507-178 EMI BACKSHELLS

| Series                       | Shell Finish            | Connector Size | Cable Entry Code  | Hardware Option | EMI Band Strap Option |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|------------------------------|-------------------------|----------------|---|-----------------|-----------------------|-------------------------|-------------------------|----|------|------|------------|----|------|------|------------|----|------|------|------------|----|------|-------|------------|----|------|-------|------------|----|------|-------|-------------|----|------|-------|-------------|----|------|-------|-------------|----|------|-------|-------------|----|------|-------|-------------------|----|------|-------|-------------------|----|------|-------|-------------------|----|-------|-------|-------------------|---|--|
| 507-178                      | E – Chem Film (Alodyne) | 09             | <p style="text-align: center;"><b>D</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>In. ±.010</th> <th>mm. ± 0.25</th> <th>Available on Shell Size</th> </tr> </thead> <tbody> <tr><td>04</td><td>.250</td><td>6.35</td><td>09, 15, 21</td></tr> <tr><td>05</td><td>.312</td><td>7.92</td><td>15 Thru 31</td></tr> <tr><td>06</td><td>.375</td><td>9.53</td><td>21 Thru 51</td></tr> <tr><td>07</td><td>.437</td><td>11.10</td><td>25 Thru 51</td></tr> <tr><td>08</td><td>.500</td><td>12.70</td><td>25 Thru 51</td></tr> <tr><td>09</td><td>.562</td><td>14.27</td><td>31 Thru 100</td></tr> <tr><td>10</td><td>.625</td><td>15.88</td><td>31 Thru 100</td></tr> <tr><td>11</td><td>.688</td><td>17.48</td><td>37 Thru 100</td></tr> <tr><td>12</td><td>.750</td><td>19.05</td><td>37 Thru 100</td></tr> <tr><td>13</td><td>.812</td><td>20.62</td><td>37,51-2,67,69,100</td></tr> <tr><td>14</td><td>.875</td><td>22.23</td><td>51-2, 67, 69, 100</td></tr> <tr><td>15</td><td>.938</td><td>23.83</td><td>51-2, 67, 69, 100</td></tr> <tr><td>16</td><td>1.000</td><td>25.40</td><td>51-2, 67, 69, 100</td></tr> </tbody> </table> | Code            | In. ±.010             | mm. ± 0.25              | Available on Shell Size | 04 | .250 | 6.35 | 09, 15, 21 | 05 | .312 | 7.92 | 15 Thru 31 | 06 | .375 | 9.53 | 21 Thru 51 | 07 | .437 | 11.10 | 25 Thru 51 | 08 | .500 | 12.70 | 25 Thru 51 | 09 | .562 | 14.27 | 31 Thru 100 | 10 | .625 | 15.88 | 31 Thru 100 | 11 | .688 | 17.48 | 37 Thru 100 | 12 | .750 | 19.05 | 37 Thru 100 | 13 | .812 | 20.62 | 37,51-2,67,69,100 | 14 | .875 | 22.23 | 51-2, 67, 69, 100 | 15 | .938 | 23.83 | 51-2, 67, 69, 100 | 16 | 1.000 | 25.40 | 51-2, 67, 69, 100 | <b>B</b> – Fillister Head Screwlock<br><b>BJ</b> – Fillister Head Jackscrew | <b>OMIT</b> – Band Strap Not Supplied<br><br><b>B</b> – Microband Supplied (600-057)<br><br><b>K</b> – Coiled Microband Supplied (600-057-1) |
|                              |                         | Code           |   | In. ±.010       | mm. ± 0.25            | Available on Shell Size |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 04                      | .250           |   | 6.35            | 09, 15, 21            |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 05                      | .312           |   | 7.92            | 15 Thru 31            |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 06                      | .375           |   | 9.53            | 21 Thru 51            |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 07                      | .437           |   | 11.10           | 25 Thru 51            |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 08                      | .500           |   | 12.70           | 25 Thru 51            |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 09                      | .562           |   | 14.27           | 31 Thru 100           |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 10                      | .625           |   | 15.88           | 31 Thru 100           |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 11                      | .688           |   | 17.48           | 37 Thru 100           |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 12                      | .750           |   | 19.05           | 37 Thru 100           |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 13                      | .812           |   | 20.62           | 37,51-2,67,69,100     |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 14                      | .875           |   | 22.23           | 51-2, 67, 69, 100     |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 15                      | .938           |   | 23.83           | 51-2, 67, 69, 100     |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 16                      | 1.000          |   | 25.40           | 51-2, 67, 69, 100     |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 15                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
| J – Cadmium, Yellow Chromate | 21                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 25                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
| M – Electroless Nickel       | 31                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 37                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
| NF – Cadmium, Olive Drab     | 51                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 51-2                    |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
| Z2 – Gold                    | 67                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 69                      |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              | 100                     |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |
|                              |                         |                |   |                 |                       |                         |                         |    |      |      |            |    |      |      |            |    |      |      |            |    |      |       |            |    |      |       |            |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |             |    |      |       |                   |    |      |       |                   |    |      |       |                   |    |       |       |                   |   |  |

**Sample Part Number**

|         |   |    |    |   |   |
|---------|---|----|----|---|---|
| 507-178 | M | 25 | 06 | F | K |
|---------|---|----|----|---|---|

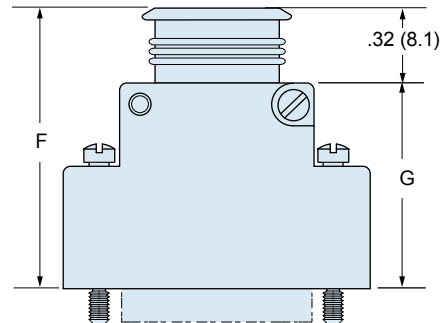
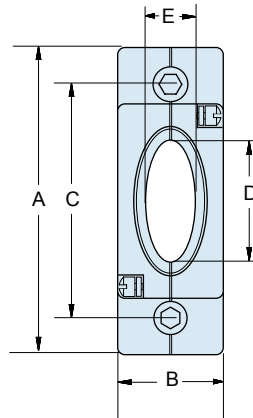




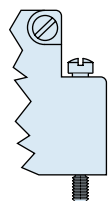
# EMI/RFI Elliptical Split Shell Banding Backshell 507-178

## MATERIALS (SEE ORDERING INFO FOR FINISH OPTIONS)

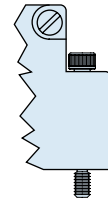
|                                |  |
|--------------------------------|--|
| Shell, Saddle Clamps           | Aluminum Alloy 6061 -T6 Per QQ-A-200, QQ-A-225 (Machined Components)<br>Aluminum Alloy 6061-T6 Per QQ-A-591 (A380) (Die-Cast Components) |
| Clips                          | 17-7PH Stainless Steel   |
| Jackscrews, Washers, Jackposts | 300 Series Stainless Steel, Passivated   |



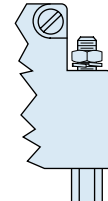
| CABLE ENTRY |           |           |                         |
|-------------|-----------|-----------|-------------------------|
| Code        | D         |           | Available on Shell Size |
|             | In. ±.010 | mm. ±0.25 |                         |
| 04          | .250      | 6.35      | 09, 15, 21              |
| 05          | .312      | 7.92      | 15 Thru 31              |
| 06          | .375      | 9.53      | 21 Thru 51              |
| 07          | .437      | 11.10     | 25 Thru 51              |
| 08          | .500      | 12.70     | 25 Thru 51              |
| 09          | .562      | 14.27     | 31 Thru 100             |
| 10          | .625      | 15.88     | 31 Thru 100             |
| 11          | .688      | 17.48     | 37 Thru 100             |
| 12          | .750      | 19.05     | 37 Thru 100             |
| 13          | .812      | 20.62     | 37,51-2,67,69,100       |
| 14          | .875      | 22.23     | 51-2, 67, 69, 100       |
| 15          | .938      | 23.83     | 51-2, 67, 69, 100       |
| 16          | 1.000     | 25.40     | 51-2, 67, 69, 100       |



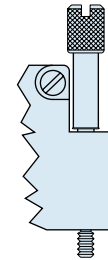
CODE B & BJ  
FILLISTER HEAD



CODE H & HJ  
HEX HEAD



CODE F  
FEMALE  
JACKPOST



CODE E & EJ  
EXTENDED

## DIMENSIONS

| Size | A Max. |       | B Max. |       | C     |       | E         |           | F Max. |       | G Max. |       |
|------|--------|-------|--------|-------|-------|-------|-----------|-----------|--------|-------|--------|-------|
|      | In.    | mm.   | In.    | mm.   | In.   | mm.   | In. ±.010 | mm. ±0.25 | In.    | mm.   | In.    | mm.   |
| 09   | .915   | 23.24 | .450   | 11.43 | .565  | 14.35 | .160      | 4.06      | 1.033  | 26.24 | .721   | 18.31 |
| 15   | 1.065  | 27.05 | .450   | 11.43 | .715  | 18.16 | .190      | 4.83      | 1.096  | 27.84 | .783   | 19.89 |
| 21   | 1.215  | 30.86 | .450   | 11.43 | .865  | 21.97 | .220      | 5.59      | 1.127  | 28.63 | .815   | 20.70 |
| 25   | 1.315  | 33.40 | .450   | 11.43 | .965  | 24.51 | .260      | 6.60      | 1.190  | 30.23 | .877   | 22.28 |
| 31   | 1.465  | 37.21 | .450   | 11.43 | 1.115 | 28.32 | .275      | 6.99      | 1.221  | 31.01 | .908   | 23.06 |
| 37   | 1.615  | 41.02 | .450   | 11.43 | 1.265 | 32.13 | .285      | 7.24      | 1.283  | 32.59 | .971   | 24.66 |
| 51   | 1.565  | 39.75 | .495   | 12.57 | 1.215 | 30.86 | .350      | 8.89      | 1.346  | 34.19 | 1.033  | 26.24 |
| 51-2 | 1.965  | 49.91 | .450   | 11.43 | 1.615 | 41.02 | .350      | 8.89      | 1.346  | 34.19 | 1.033  | 26.24 |
| 67   | 2.365  | 60.07 | .450   | 11.43 | 2.015 | 51.18 | .350      | 8.89      | 1.346  | 34.19 | 1.033  | 26.24 |
| 69   | 1.865  | 47.37 | .495   | 12.57 | 1.515 | 38.48 | .350      | 8.89      | 1.346  | 34.19 | 1.033  | 26.24 |
| 100  | 2.305  | 58.55 | .540   | 13.72 | 1.800 | 45.72 | .490      | 12.45     | 1.408  | 35.76 | 1.096  | 27.83 |