

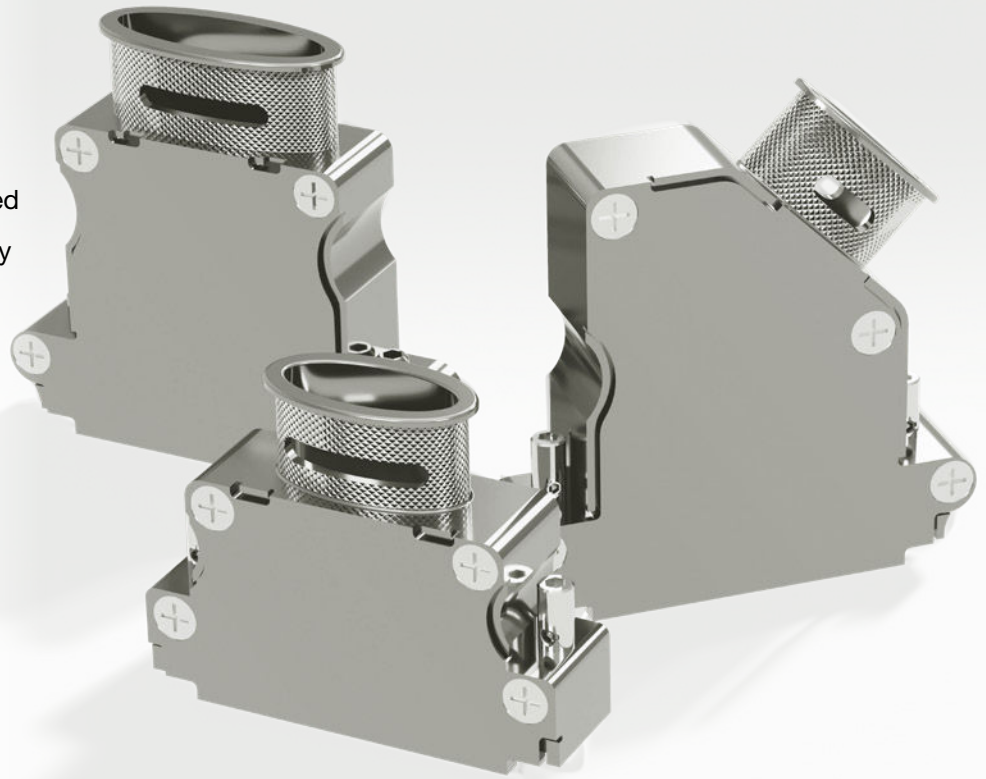
# PRECISION MACHINED BANDED BACKSHELLS

## LIGHTWEIGHT ALUMINUM

AP / AK / AW SERIES, FOR USE WITH D-SUB CONNECTORS

### FEATURES

- Available in sizes 1 through 6
- Banded elliptical entry, slotted, knurled
- Top and top low-profile, 45° side entry
- Jackscrews or quick disconnect locking system
- Spacious interior
- Re-openable, two-piece construction
- Metal backshell offers EMI protection
- Suitable for robust use
- Customizable



### TECH SPECS

|                   |                                      |
|-------------------|--------------------------------------|
| Performance Level | Mil/Aero / Spaceflight / Industrial  |
| RoHS Compliance   | Compliant when /AA suffix is applied |

#### MATERIAL AND FINISHES

|                       |                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Backshell and Cover   | Aluminum; aluminum with electroless nickel plate; aluminum with yellow anodize; aluminum with chemical conversion coating. Zinc content is 1% maximum. |
| Hardware              | Steel with nickel plate; brass with zinc plate; brass with 1.27µm min Au over Cu. Stainless steel options available, contact Technical Sales.          |
| Actuation Lock System | Steel with nickel plate                                                                                                                                |

#### MECHANICAL

|                |                                               |
|----------------|-----------------------------------------------|
| Cable Entry    | Top and 45° side entry                        |
| Locking System | Jackscrews or quick disconnect locking system |

#### ENVIRONMENTAL

|                       |              |
|-----------------------|--------------|
| Operating Temperature | -55 to 125°C |
|-----------------------|--------------|



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M037 Rev.A 25/06

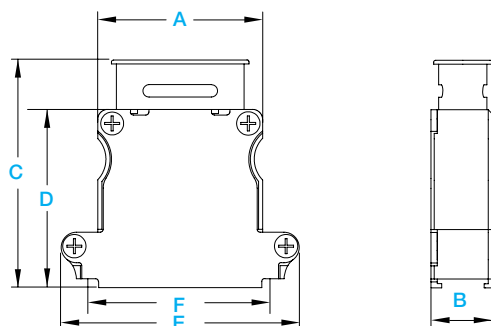
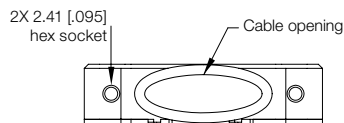
## LIGHTWEIGHT ALUMINUM BACKSHELLS

For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

For use with code E, E6 or E7

### AP

Backshell, banded, aluminum, top entry



AP backshell shown with E option



AP backshell shown with E6 option



AP backshell shown with E7 option

Dimensions are in millimeters [inches]

| PART NUMBER                                                                                                                           | Connector / Contact Arrangement Compatibility |                                                                        | Shell Size | A                | B               | C                | D                | E                | F                | Cable Entry <sup>*3</sup>       | Total Mass <sup>*4</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|------------|------------------|-----------------|------------------|------------------|------------------|------------------|---------------------------------|--------------------------|
| D9000APN <sup>*1</sup> E0 <sup>*2</sup><br>D9000APN <sup>*1</sup> E60 <sup>*2</sup><br>D9000APN <sup>*1</sup> E70 <sup>*2</sup>       | Std-D: 9<br>High-D: 15                        | Combo-D: 5W1, 2WK2<br>Combo-D High-D: 8W2                              | 1          | 23.06<br>[.908]  | 15.65<br>[.616] | 58.12<br>[2.288] | 45.47<br>[1.790] | 38.71<br>[1.524] | 24.99<br>[.984]  | 9.73 x 11.28<br>[.383 x .444]   | 25.50 grams              |
| D15000APN <sup>*1</sup> E0 <sup>*2</sup><br>D15000APN <sup>*1</sup> E60 <sup>*2</sup><br>D15000APN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 15<br>High-D: 26                       | Combo-D: 3W3, 3WK3,<br>7W2, 11W1<br>Combo-D High-D: 19W1               | 2          | 31.39<br>[1.236] | 15.65<br>[.616] | 58.12<br>[2.288] | 45.47<br>[1.790] | 47.04<br>[1.852] | 33.32<br>[1.312] | 9.73 x 19.61<br>[.383 x .772]   | 30.19 grams              |
| D25000APN <sup>*1</sup> E0 <sup>*2</sup><br>D25000APN <sup>*1</sup> E60 <sup>*2</sup><br>D25000APN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 25<br>High-D: 44                       | Combo-D: 5W5, 9W4, 13W3,<br>17W2, 21W1<br>Combo-D High-D: 15W4         | 3          | 42.06<br>[1.656] | 15.65<br>[.616] | 58.12<br>[2.288] | 45.47<br>[1.790] | 60.76<br>[2.392] | 47.04<br>[1.852] | 9.73 x 30.00<br>[.383 x 1.181]  | 35.95 grams              |
| D37000APN <sup>*1</sup> E0 <sup>*2</sup><br>D37000APN <sup>*1</sup> E60 <sup>*2</sup><br>D37000APN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 37<br>High-D: 62                       | Combo-D: 8W8, 13W6, 17W5,<br>21WA4, 25W3, 27W2<br>Combo-D High-D: 45W2 | 4          | 58.52<br>[2.304] | 15.65<br>[.616] | 64.47<br>[2.538] | 51.82<br>[2.040] | 77.22<br>[3.040] | 63.50<br>[2.500] | 9.73 x 44.00<br>[.383 x 1.732]  | 49.26 grams              |
| D50000APN <sup>*1</sup> E0 <sup>*2</sup><br>D50000APN <sup>*1</sup> E60 <sup>*2</sup><br>D50000APN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 50<br>High-D: 78                       | Combo-D: 24W7, 36W4,<br>43W2, 47W1<br>Combo-D High-D: n/a              | 5          | 56.13<br>[2.210] | 18.47<br>[.727] | 64.47<br>[2.538] | 51.82<br>[2.040] | 74.83<br>[2.946] | 61.11<br>[2.406] | 11.00 x 42.00<br>[.433 x 1.654] | 51.71 grams              |
| D104000APN <sup>*1</sup> E0 <sup>*2</sup><br>D104000APN <sup>*1</sup> E60 <sup>*2</sup><br>D104000APN <sup>*1</sup> E70 <sup>*2</sup> | Std-D: n/a<br>High-D: 104                     | Combo-D: 46W4<br>Combo-D High-D: n/a                                   | 6          | 58.52<br>[2.304] | 20.07<br>[.790] | 64.47<br>[2.538] | 51.82<br>[2.040] | 77.22<br>[3.040] | 63.50<br>[2.500] | 14.00 x 44.00<br>[.551 x 1.732] | 54.74 grams              |

<sup>\*1</sup> For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 8.

<sup>\*2</sup> For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and <sup>\*1</sup> note must remain as 'N' (e.g. D9000APNE6G).

<sup>\*3</sup> Custom cable entry is available. Contact Technical Sales for more information.

<sup>\*4</sup> Total Mass shown is for 'E' configuration. Contact Technical Sales for 'E6' and 'E7'.

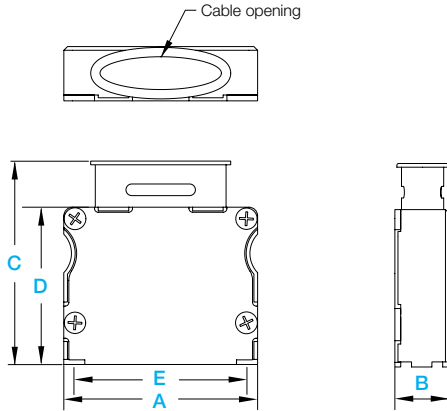
## LIGHTWEIGHT ALUMINUM BACKSHELLS

For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

For use with code T2, V3 or VL

### AP

Backshell, banded, aluminum, top entry



AP backshell shown with T2 option



AP backshell shown with V3 option



AP backshell shown with VL option

Dimensions are in millimeters [inches]

| PART NUMBER                                                                                                                         | Connector /<br>Contact Arrangement Compatibility |                                                                        | Shell<br>Size | A                | B               | C                | D                | E                | Cable<br>Entry <sup>*3</sup>    | Total<br>Mass             |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------|---------------|------------------|-----------------|------------------|------------------|------------------|---------------------------------|---------------------------|
| D9000APN <sup>*1</sup> T20 <sup>*2</sup><br>D9000APN <sup>*1</sup> V30 <sup>*2</sup><br>D9000APN <sup>*1</sup> VL0 <sup>*2</sup>    | Std-D: 9<br>High-D: 15                           | Combo-D: 5W1, 2WK2<br>Combo-D High-D: 8W2                              | 1             | 30.96<br>[1.219] | 14.88<br>[.586] | 55.83<br>[2.198] | 43.18<br>[1.700] | 24.99<br>[.984]  | 9.00 x 11.28<br>[.354 x .444]   | 30.88 grams <sup>*4</sup> |
| D15000APN <sup>*1</sup> T20 <sup>*2</sup><br>D15000APN <sup>*1</sup> V30 <sup>*2</sup><br>D15000APN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 15<br>High-D: 26                          | Combo-D: 3W3, 3WK3,<br>7W2, 11W1<br>Combo-D High-D: 19W1               | 2             | 39.29<br>[1.547] | 14.88<br>[.586] | 55.83<br>[2.198] | 43.18<br>[1.700] | 33.32<br>[1.312] | 9.00 x 19.61<br>[.354 x .772]   | 35.72 grams <sup>*4</sup> |
| D25000APN <sup>*1</sup> T20 <sup>*2</sup><br>D25000APN <sup>*1</sup> V30 <sup>*2</sup><br>D25000APN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 25<br>High-D: 44                          | Combo-D: 5W5, 9W4, 13W3,<br>17W2, 21W1<br>Combo-D High-D: 15W4         | 3             | 53.19<br>[2.094] | 14.88<br>[.586] | 55.83<br>[2.198] | 43.18<br>[1.700] | 47.04<br>[1.852] | 9.00 x 33.32<br>[.354 x 1.312]  | 44.30 grams <sup>*4</sup> |
| D37000APN <sup>*1</sup> T20 <sup>*2</sup><br>D37000APN <sup>*1</sup> V30 <sup>*2</sup><br>D37000APN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 37<br>High-D: 62                          | Combo-D: 8W8, 13W6, 17W5,<br>21WA4, 25W3, 27W2<br>Combo-D High-D: 45W2 | 4             | 69.49<br>[2.736] | 14.88<br>[.586] | 62.18<br>[2.448] | 49.53<br>[1.950] | 63.50<br>[2.500] | 9.00 x 49.78<br>[.354 x 1.960]  | 58.61 grams <sup>*4</sup> |
| D50000APN <sup>*1</sup> T20 <sup>*2</sup><br>D50000APN <sup>*1</sup> V30 <sup>*2</sup><br>D50000APN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 50<br>High-D: 78                          | Combo-D: 24W7, 36W4,<br>43W2, 47W1<br>Combo-D High-D: n/a              | 5             | 67.11<br>[2.642] | 17.70<br>[.697] | 62.18<br>[2.448] | 49.53<br>[1.950] | 61.11<br>[2.406] | 11.00 x 47.40<br>[.433 x 1.866] | 61.74 grams <sup>*4</sup> |
| D104000APN <sup>*1</sup> T20 <sup>*2</sup>                                                                                          | Std-D: n/a<br>High-D: 104                        | Combo-D: 46W4<br>Combo-D High-D: n/a                                   | 6             | 69.49<br>[2.736] | 19.30<br>[.760] | 62.18<br>[2.448] | 49.53<br>[1.950] | 63.50<br>[2.500] | 13.00 x 49.00<br>[.512 x 1.929] | 57.71 grams               |

<sup>\*1</sup> For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 8.

<sup>\*2</sup> For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and \*1 note must remain as 'N' (e.g. D9000APNT2G).

<sup>\*3</sup> Custom cable entry is available. Contact Technical Sales for more information.

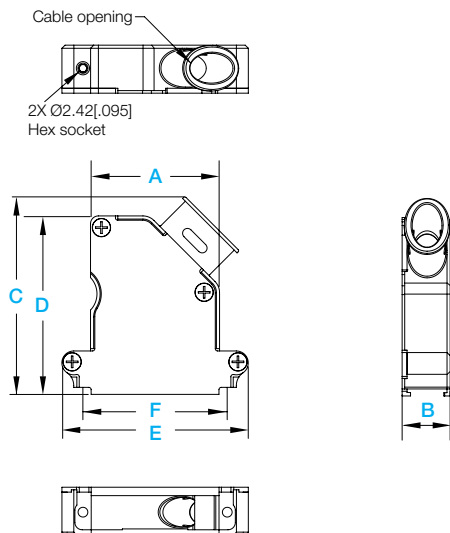
<sup>\*4</sup> Total Mass shown is for 'VL' configuration. Contact Technical Sales for 'T2' and 'V3'.

## LIGHTWEIGHT ALUMINUM BACKSHELLS

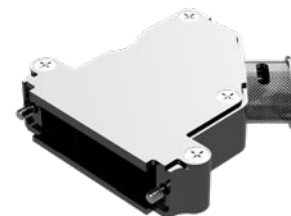
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

### AK

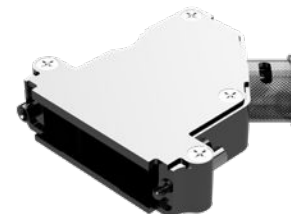
Backshell, banded, aluminum, 45° side entry



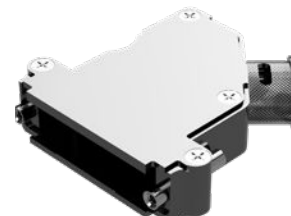
For use with code E, E6 or E7



AK backshell shown with E option



AK backshell shown with E6 option



AK backshell shown with E7 option

Dimensions are in millimeters [inches]

| PART NUMBER                                                                                                                           | Connector / Contact Arrangement Compatibility |                                                                        | Shell Size | A                | B               | C                | D                | E                | F                | Cable Entry <sup>*3</sup>       | Total Mass <sup>*4</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|------------|------------------|-----------------|------------------|------------------|------------------|------------------|---------------------------------|--------------------------|
| D9000AKN <sup>*1</sup> E0 <sup>*2</sup><br>D9000AKN <sup>*1</sup> E60 <sup>*2</sup><br>D9000AKN <sup>*1</sup> E70 <sup>*2</sup>       | Std-D: 9<br>High-D: 15                        | Combo-D: 5W1, 2WK2<br>Combo-D High-D: 8W2                              | 1          | 20.01<br>[.788]  | 15.65<br>[.616] | 54.62<br>[2.150] | 50.30<br>[1.980] | 38.72<br>[1.524] | 24.99<br>[.984]  | 9.73 x 10.27<br>[.383 x .404]   | 23.48 grams              |
| D15000AKN <sup>*1</sup> E0 <sup>*2</sup><br>D15000AKN <sup>*1</sup> E60 <sup>*2</sup><br>D15000AKN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 15<br>High-D: 26                       | Combo-D: 3W3, 3WK3,<br>7W2, 11W1<br>Combo-D High-D: 19W1               | 2          | 28.24<br>[1.112] | 15.65<br>[.616] | 61.46<br>[2.419] | 56.90<br>[2.240] | 47.07<br>[1.852] | 33.32<br>[1.312] | 9.73 x 16.00<br>[.383 x .630]   | 30.27 grams              |
| D25000AKN <sup>*1</sup> E0 <sup>*2</sup><br>D25000AKN <sup>*1</sup> E60 <sup>*2</sup><br>D25000AKN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 25<br>High-D: 44                       | Combo-D: 5W5, 9W4, 13W3,<br>17W2, 21W1<br>Combo-D High-D: 15W4         | 3          | 42.06<br>[1.656] | 15.65<br>[.616] | 64.38<br>[2.535] | 58.17<br>[2.290] | 60.76<br>[2.392] | 47.04<br>[1.852] | 9.73 x 20.00<br>[.383 x .787]   | 41.29 grams              |
| D37000AKN <sup>*1</sup> E0 <sup>*2</sup><br>D37000AKN <sup>*1</sup> E60 <sup>*2</sup><br>D37000AKN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 37<br>High-D: 62                       | Combo-D: 8W8, 13W6, 17W5,<br>21WA4, 25W3, 27W2<br>Combo-D High-D: 45W2 | 4          | 58.52<br>[2.304] | 15.65<br>[.616] | 76.37<br>[3.007] | 68.08<br>[2.680] | 77.22<br>[3.040] | 63.50<br>[2.500] | 9.73 x 30.00<br>[.383 x 1.181]  | 58.80 grams              |
| D50000AKN <sup>*1</sup> E0 <sup>*2</sup><br>D50000AKN <sup>*1</sup> E60 <sup>*2</sup><br>D50000AKN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 50<br>High-D: 78                       | Combo-D: 24W7, 36W4,<br>43W2, 47W1<br>Combo-D High-D: n/a              | 5          | 56.13<br>[2.210] | 18.47<br>[.727] | 75.52<br>[2.973] | 68.08<br>[2.680] | 74.83<br>[2.946] | 61.11<br>[2.406] | 11.00 x 30.00<br>[.433 x 1.181] | 61.12 grams              |
| D104000AKN <sup>*1</sup> E0 <sup>*2</sup><br>D104000AKN <sup>*1</sup> E60 <sup>*2</sup><br>D104000AKN <sup>*1</sup> E70 <sup>*2</sup> | Std-D: n/a<br>High-D: 104                     | Combo-D: 46W4<br>Combo-D High-D: n/a                                   | 6          | 58.52<br>[2.304] | 20.07<br>[.790] | 76.65<br>[3.018] | 68.08<br>[2.680] | 77.22<br>[3.040] | 63.50<br>[2.500] | 14.00 x 30.00<br>[.551 x 1.181] | 65.53 grams              |

<sup>\*1</sup> For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 8.

<sup>\*2</sup> For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and \*1 note must remain as 'N' (e.g. D9000AKNE6G).

<sup>\*3</sup> Custom cable entry is available. Contact Technical Sales for more information.

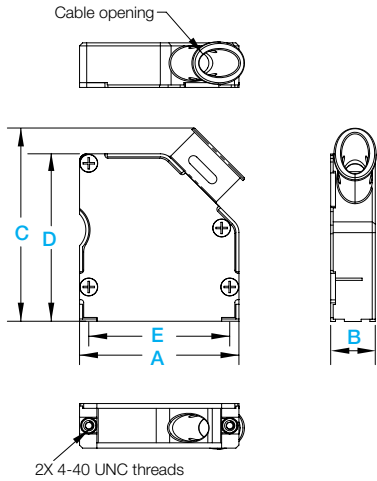
<sup>\*4</sup> Total Mass shown is for 'E' configuration. Contact Technical Sales for 'E6' and 'E7'.

## LIGHTWEIGHT ALUMINUM BACKSHELLS

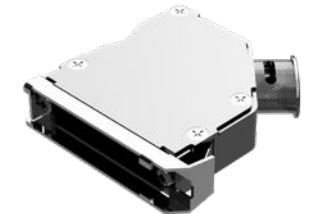
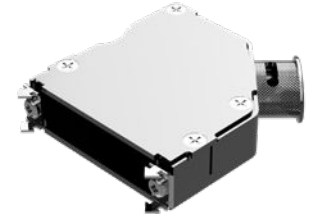
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

### AK

Backshell, banded, aluminum, 45° side entry



For use with code T2, V3 or VL



Dimensions are in millimeters [inches]

| PART NUMBER                                                                                                                         | Connector / Contact Arrangement Compatibility |                                                                        | Shell Size | A                | B               | C                | D                | E                | Cable Entry <sup>*2</sup>       | Total Mass                |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|------------|------------------|-----------------|------------------|------------------|------------------|---------------------------------|---------------------------|
| D9000AKN <sup>*1</sup> T20 <sup>*2</sup><br>D9000AKN <sup>*1</sup> V30 <sup>*2</sup><br>D9000AKN <sup>*1</sup> VL0 <sup>*2</sup>    | Std-D: 9<br>High-D: 15                        | Combo-D: 5W1, 2WK2<br>Combo-D High-D: 8W2                              | 1          | 30.96<br>[1.219] | 14.88<br>[.586] | 54.65<br>[2.152] | 48.26<br>[1.900] | 24.99<br>[.984]  | 9.00 x 18.00<br>[.354 x .709]   | 31.39 grams <sup>*4</sup> |
| D15000AKN <sup>*1</sup> T20 <sup>*2</sup><br>D15000AKN <sup>*1</sup> V30 <sup>*2</sup><br>D15000AKN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 15<br>High-D: 26                       | Combo-D: 3W3, 3WK3,<br>7W2, 11W1<br>Combo-D High-D: 19W1               | 2          | 39.29<br>[1.547] | 14.88<br>[.586] | 63.59<br>[2.503] | 55.88<br>[2.200] | 33.32<br>[1.312] | 9.00 x 22.00<br>[.354 x .866]   | 39.77 grams <sup>*4</sup> |
| D25000AKN <sup>*1</sup> T20 <sup>*2</sup><br>D25000AKN <sup>*1</sup> V30 <sup>*2</sup><br>D25000AKN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 25<br>High-D: 44                       | Combo-D: 5W5, 9W4, 13W3,<br>17W2, 21W1<br>Combo-D High-D: 15W4         | 3          | 53.19<br>[2.094] | 14.88<br>[.586] | 64.49<br>[2.539] | 55.88<br>[2.200] | 47.04<br>[1.852] | 9.00 x 19.00<br>[.354 x .748]   | 50.89 grams <sup>*4</sup> |
| D37000AKN <sup>*1</sup> T20 <sup>*2</sup><br>D37000AKN <sup>*1</sup> V30 <sup>*2</sup><br>D37000AKN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 37<br>High-D: 62                       | Combo-D: 8W8, 13W6, 17W5,<br>21WA4, 25W3, 27W2<br>Combo-D High-D: 45W2 | 4          | 69.49<br>[2.736] | 14.88<br>[.586] | 76.16<br>[2.998] | 69.85<br>[2.750] | 63.50<br>[2.500] | 9.00 x 29.00<br>[.354 x 1.142]  | 71.67 grams <sup>*4</sup> |
| D50000AKN <sup>*1</sup> T20 <sup>*2</sup><br>D50000AKN <sup>*1</sup> V30 <sup>*2</sup><br>D50000AKN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 50<br>High-D: 78                       | Combo-D: 24W7, 36W4,<br>43W2, 47W1<br>Combo-D High-D: n/a              | 5          | 67.11<br>[2.642] | 17.70<br>[.697] | 76.44<br>[3.009] | 69.85<br>[2.750] | 61.11<br>[2.406] | 11.00 x 30.00<br>[.433 x 1.181] | 73.62 grams <sup>*4</sup> |
| D104000AKN <sup>*1</sup> T20 <sup>*2</sup>                                                                                          | Std-D: n/a<br>High-D: 104                     | Combo-D: 46W4<br>Combo-D High-D: n/a                                   | 6          | 69.49<br>[2.736] | 19.30<br>[.760] | 77.49<br>[3.051] | 69.85<br>[2.750] | 63.50<br>[2.500] | 13.00 x 32.00<br>[.512 x 1.260] | 69.76 grams               |

<sup>\*1</sup> For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 8.

<sup>\*2</sup> For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and <sup>\*1</sup> note must remain as 'N' (e.g. D9000AKNT2G).

<sup>\*3</sup> Custom cable entry is available. Contact Technical Sales for more information.

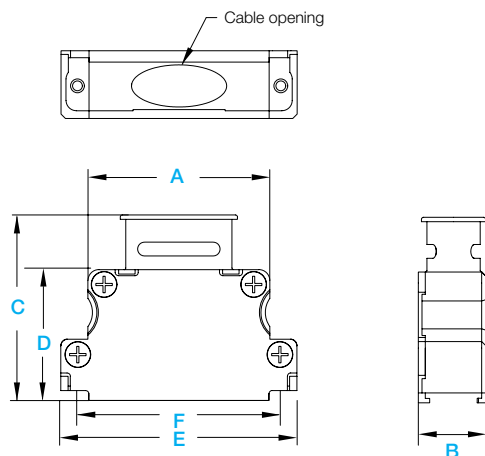
<sup>\*4</sup> Total Mass shown is for 'VL' configuration. Contact Technical Sales for 'T2' and 'V3'.

## LIGHTWEIGHT ALUMINUM BACKSHELLS

For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

### AW

Backshell, banded, aluminum, top entry, low-profile



For use with code E, E6 or E7



AW backshell shown with **E** option



AW backshell shown with **E6** option



AW backshell shown with **E7** option

Dimensions are in millimeters [inches]

| PART NUMBER                                                                                                                           | Connector / Contact Arrangement Compatibility |                                                                        | Shell Size | A                | B               | C                | D                | E                | F                | Cable Entry <sup>*3</sup>       | Total Mass <sup>*4</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|------------|------------------|-----------------|------------------|------------------|------------------|------------------|---------------------------------|--------------------------|
| D9000AWN <sup>*1</sup> E0 <sup>*2</sup><br>D9000AWN <sup>*1</sup> E60 <sup>*2</sup><br>D9000AWN <sup>*1</sup> E70 <sup>*2</sup>       | Std-D: 9<br>High-D: 15                        | Combo-D: 5W1, 2WK2<br>Combo-D High-D: 8W2                              | 1          | 20.32<br>[.800]  | 15.65<br>[.616] | 40.34<br>[1.588] | 27.69<br>[1.090] | 32.33<br>[1.273] | 24.99<br>[.984]  | 9.73 X 10.00<br>[.383 x .394]   | 17.54 grams              |
| D15000AWN <sup>*1</sup> E0 <sup>*2</sup><br>D15000AWN <sup>*1</sup> E60 <sup>*2</sup><br>D15000AWN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 15<br>High-D: 26                       | Combo-D: 3W3, 3WK3,<br>7W2, 11W1<br>Combo-D High-D: 19W1               | 2          | 28.45<br>[1.120] | 15.65<br>[.616] | 42.88<br>[1.688] | 30.23<br>[1.190] | 40.64<br>[1.600] | 33.32<br>[1.312] | 9.73 x 17.00<br>[.383 x .669]   | 22.42 grams              |
| D25000AWN <sup>*1</sup> E0 <sup>*2</sup><br>D25000AWN <sup>*1</sup> E60 <sup>*2</sup><br>D25000AWN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 25<br>High-D: 44                       | Combo-D: 5W5, 9W4, 13W3,<br>17W2, 21W1<br>Combo-D High-D: 15W4         | 3          | 42.06<br>[1.656] | 15.65<br>[.616] | 42.88<br>[1.688] | 30.23<br>[1.190] | 54.61<br>[2.150] | 47.04<br>[1.852] | 9.73 x 22.00<br>[.383 x .866]   | 27.86 grams              |
| D37000AWN <sup>*1</sup> E0 <sup>*2</sup><br>D37000AWN <sup>*1</sup> E60 <sup>*2</sup><br>D37000AWN <sup>*1</sup> E70 <sup>*1</sup>    | Std-D: 37<br>High-D: 62                       | Combo-D: 8W8, 13W6, 17W5,<br>21WA4, 25W3, 27W2<br>Combo-D High-D: 45W2 | 4          | 58.52<br>[2.304] | 15.65<br>[.616] | 42.88<br>[1.688] | 30.23<br>[1.190] | 71.12<br>[2.800] | 63.50<br>[2.500] | 9.73 x 42.00<br>[.383 x 1.654]  | 34.92 grams              |
| D50000AWN <sup>*1</sup> E0 <sup>*2</sup><br>D50000AWN <sup>*1</sup> E60 <sup>*2</sup><br>D50000AWN <sup>*1</sup> E70 <sup>*2</sup>    | Std-D: 50<br>High-D: 78                       | Combo-D: 24W7, 36W4,<br>43W2, 47W1<br>Combo-D High-D: n/a              | 5          | 56.13<br>[2.210] | 18.47<br>[.727] | 42.88<br>[1.688] | 30.23<br>[1.190] | 68.60<br>[2.701] | 61.11<br>[2.406] | 11.00 x 40.00<br>[.433 x 1.575] | 35.92 grams              |
| D104000AWN <sup>*1</sup> E0 <sup>*2</sup><br>D104000AWN <sup>*1</sup> E60 <sup>*2</sup><br>D104000AWN <sup>*1</sup> E70 <sup>*2</sup> | Std-D: n/a<br>High-D: 104                     | Combo-D: 46W4<br>Combo-D High-D: n/a                                   | 6          | 58.52<br>[2.304] | 20.07<br>[.790] | 42.88<br>[1.688] | 30.23<br>[1.190] | 71.12<br>[2.800] | 63.50<br>[2.500] | 14.00 x 42.00<br>[.551 x 1.654] | 38.95 grams              |

<sup>\*1</sup> For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 8.

<sup>\*2</sup> For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and <sup>\*1</sup> note must remain as 'N' (e.g. D9000AWN6G).

<sup>\*3</sup> Custom cable entry is available. Contact Technical Sales for more information.

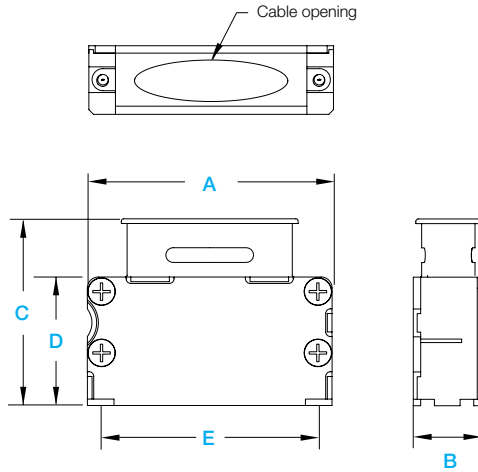
<sup>\*4</sup> Total Mass shown is for 'E' configuration. Contact Technical Sales for 'E6' and 'E7'.

## LIGHTWEIGHT ALUMINUM BACKSHELLS

For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

### AW

Backshell, banded, aluminum, top entry, low-profile



For use with code T2, V3 or VL



AW backshell shown with T2 option



AW backshell shown with V3 option



AW backshell shown with VL option

Dimensions are in millimeters [inches]

| PART NUMBER                                                                                                                        | Connector / Contact Arrangement Compatibility |                                                                        | Shell Size | A                | B               | C                | D                | E                | Cable Entry <sup>*3</sup>       | Total Mass                |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|------------|------------------|-----------------|------------------|------------------|------------------|---------------------------------|---------------------------|
| D9000AWN <sup>*1</sup> T2 <sup>*2</sup><br>D9000AWN <sup>*1</sup> V30 <sup>*2</sup><br>D9000AWN <sup>*1</sup> VL0 <sup>*2</sup>    | Std-D: 9<br>High-D: 15                        | Combo-D: 5W1, 2WK2<br>Combo-D High-D: 8W2                              | 1          | 30.96<br>[1.219] | 14.88<br>[.586] | 40.59<br>[1.598] | 27.94<br>[1.100] | 24.99<br>[.984]  | 9.00 x 11.28<br>[.354 x .444]   | 24.43 grams <sup>*4</sup> |
| D15000AWN <sup>*1</sup> T2 <sup>*2</sup><br>D15000AWN <sup>*1</sup> V30 <sup>*2</sup><br>D15000AWN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 15<br>High-D: 26                       | Combo-D: 3W3, 3WK3,<br>7W2, 11W1<br>Combo-D High-D: 19W1               | 2          | 39.29<br>[1.547] | 14.88<br>[.586] | 40.59<br>[1.598] | 27.94<br>[1.100] | 33.32<br>[1.312] | 9.00 x 19.61<br>[.354 x .772]   | 27.47 grams <sup>*4</sup> |
| D25000AWN <sup>*1</sup> T2 <sup>*2</sup><br>D25000AWN <sup>*1</sup> V30 <sup>*2</sup><br>D25000AWN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 25<br>High-D: 44                       | Combo-D: 5W5, 9W4, 13W3,<br>17W2, 21W1<br>Combo-D High-D: 15W4         | 3          | 53.19<br>[2.094] | 14.88<br>[.586] | 40.59<br>[1.598] | 27.94<br>[1.100] | 47.04<br>[1.852] | 9.00 x 33.32<br>[.354 x 1.312]  | 34.25 grams <sup>*4</sup> |
| D37000AWN <sup>*1</sup> T2 <sup>*2</sup><br>D37000AWN <sup>*1</sup> V30 <sup>*2</sup><br>D37000AWN <sup>*1</sup> VL0 <sup>*1</sup> | Std-D: 37<br>High-D: 62                       | Combo-D: 8W8, 13W6, 17W5,<br>21WA4, 25W3, 27W2<br>Combo-D High-D: 45W2 | 4          | 69.49<br>[2.736] | 14.88<br>[.586] | 40.59<br>[1.598] | 27.94<br>[1.100] | 63.50<br>[2.500] | 9.00 x 49.78<br>[.354 x 1.960]  | 41.14 grams <sup>*4</sup> |
| D50000AWN <sup>*1</sup> T2 <sup>*2</sup><br>D50000AWN <sup>*1</sup> V30 <sup>*2</sup><br>D50000AWN <sup>*1</sup> VL0 <sup>*2</sup> | Std-D: 50<br>High-D: 78                       | Combo-D: 24W7, 36W4,<br>43W2, 47W1<br>Combo-D High-D: n/a              | 5          | 67.11<br>[2.642] | 17.70<br>[.697] | 40.59<br>[1.598] | 27.94<br>[1.100] | 61.11<br>[2.406] | 11.00 x 47.40<br>[.433 x 1.866] | 43.37 grams <sup>*4</sup> |
| D104000AWN <sup>*1</sup> T2 <sup>*2</sup>                                                                                          | Std-D: n/a<br>High-D: 104                     | Combo-D: 46W4<br>Combo-D High-D: n/a                                   | 6          | 69.49<br>[2.736] | 19.30<br>[.760] | 40.59<br>[1.598] | 27.94<br>[1.100] | 63.50<br>[2.500] | 13.00 x 49.00<br>[.512 x 1.929] | 41.35 grams               |

<sup>\*1</sup> For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 8.

<sup>\*2</sup> For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and \*1 note must remain as 'N' (e.g. D9000AWNT2G).

<sup>\*3</sup> Custom cable entry is available. Contact Technical Sales for more information.

<sup>\*4</sup> Total Mass shown is for 'VL' configuration. Contact Technical Sales for 'T2' and 'V3'.

# Positronic

## General Information

CREATE A PART

|                  |                            |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
|------------------|----------------------------|----|---|---|---|-----|----|---|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series           | D                          | 25 | 0 | 0 | 0 | APN | E6 | 0 | /AA | Environmental Compliance                                                                                                                                                                                     |
| D                | D-Sub                      |    |   |   |   |     |    |   | /AA | RoHS Compliant                                                                                                                                                                                               |
| Layout           |                            |    |   |   |   |     |    |   |     | Hardware Material & Finish                                                                                                                                                                                   |
| 9                | Shell size 1               |    |   |   |   |     |    | 0 |     | Material & Finish per Backshell Style Selection<br>Replaces nickel plated steel hardware with brass, 1.27µ [0.00050 inch] gold over copper plate. Offered only with N, C, A and I material & finish options. |
| 15               | Shell size 2               |    |   |   |   |     |    | G |     |                                                                                                                                                                                                              |
| 25               | Shell size 3               |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| 37               | Shell size 4               |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| 50               | Shell size 5               |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| 104              | Shell size 6 <sup>*1</sup> |    |   |   |   |     |    |   |     | Locking Systems                                                                                                                                                                                              |
| Contact Gender   |                            |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| 0                | None                       |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| Termination      |                            |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| 0                | None                       |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |
| Mounting Options |                            |    |   |   |   |     |    |   |     | Backshell Style                                                                                                                                                                                              |
| 0                | None                       |    |   |   |   |     |    |   |     |                                                                                                                                                                                                              |

\*1 VL and V3 locking systems are not available for shell size 6.

\*2 Offered only with T2, E, E6, and E7 locking system options.

### BACKSHELL TYPE 6.1

- AP Top entry
- AK Side entry
- AW Low-profile, top entry

### MATERIAL & FINISH OPTIONS 6.2

| Backshell & Banded Entry Finish |                             | Hardware Material & Finish |
|---------------------------------|-----------------------------|----------------------------|
| <u>Standard Platings</u>        |                             |                            |
| N                               | Nickel                      | Steel with nickel plate    |
| C                               | No finish                   | Steel with nickel plate    |
| <u>Optional Platings</u>        |                             |                            |
| A                               | Anodize                     | Steel with nickel plate    |
| B <sup>*2</sup>                 | Anodize                     | Brass with zinc plate      |
| D <sup>*2</sup>                 | No finish                   | Brass with zinc plate      |
| I                               | Chemical conversion coating | Steel with nickel plate    |
| J <sup>*2</sup>                 | Chemical conversion coating | Brass with zinc plate      |

#### Positronic | Americas

1325 N Eldon Ave  
Springfield MO 65803 USA  
+1 800 641 4054  
info@connectpositronic.com

#### Positronic | Europe

46 route d'Engachies  
F-32020 Auch Cedex 9 France  
+33 5 6263 4491  
contact@connectpositronic.com

#### Positronic | Asia

3014A Ubi Rd 1 #07-01  
Singapore 408703  
+65 6842 1419  
singapore@connectpositronic.com

#### Sales Offices

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For the nearest sales office visit  
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