LIGHTWEIGHT ALUMINUM BACKSHELLS

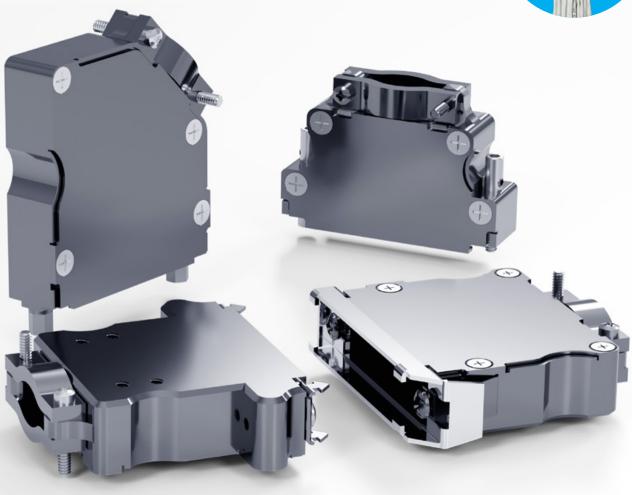
FOR USE WITH D-SUB CONNECTORS _

Positronic Lightweight Aluminum Backshells ensure highperformance connections and a long life in the field. Built for mission-critical applications, these backshells provide an excellent combination of size, weight, performance and protection. Choose from one of our three standard designs or a custom solution to meet your needs.

Trust Positronic to deliver The Science of Certainty.

- Internal Grounding
- Wide Aperture
- Quick Disconnect Lock or Jackscrews
- All Shell Sizes









GROUND SCREWS

- Sized and spaced for use with 6.35mm
 [.250 inch] diameter ring terminals
- Ground shelf height and ground screw length allow for stacking of ring terminals
- Holes are pre-tapped for ease of installation
- Ground screws are located outside the exiting wire path to facilitate wire routing
- Ground holes are tapped through to the outside which provide for optional external grounding

LOCKING SYSTEM

 Available with jackscrews or quick disconnect locking device

SPACIOUS INTERIOR

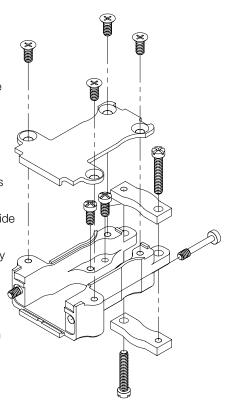
- Shape maximizes internal area which facilitates harness assembly
- No obstruction behind any portion of the connector body allows backshell to be used with Combo-D connectors

APERTURE / STRAIN RELIEF

- Appropriate for high density wire bundles using twisted, shielded pairs
- Cable clamps can be "spooned" to provide strain relief for small wire bundle
- Wide form factor allows the user to easily meet bend radius requirements



 Grip facilitates installation and removal in tight spaces



TECH SPECS

MATERIAL AND FINISHES	
Backshell & Cable Clamps	Aluminum; aluminum with electroless nickel plate; aluminum with yellow anodize; aluminum with yellow chromate conversion. Zinc content is 1% maximum.
Jackscrews & Screws	Steel with nickel plate; brass with zinc plate and chromate seal; brass, with 1.27µm min Au over Cu. Stainless steel options available, contact Technical Sales.
Actuation Lock System	Steel with nickel plate

ELECTRICAL	
Range of Operation, Calculated Method	2 GHz minimum
MECHANICAL	
Ground Screws	Can accept up to 6.35mm [.250 inch] diameter ring terminal.
Locking System	Jackscrews or quick disconnect locking device.
ENVIRONMENTAL	

-55 to 125°C

Operating Temperature









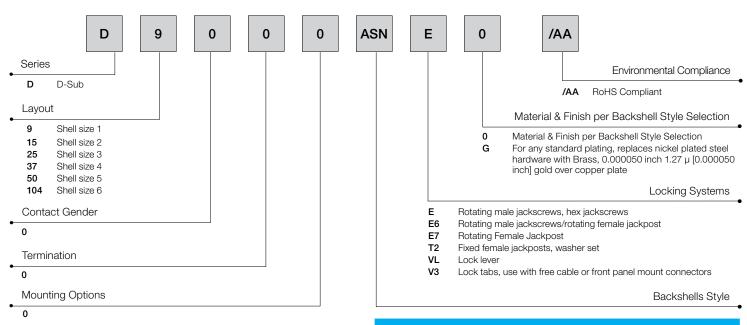
AL

		STRAIG	HT EXIT	SIDE EXIT		STRAIGHT EXIT, LOW-PROFILE
mm [inches]	Shell Size	Locking System E, E6, or E7	Locking System T2, VL, or V3	Locking System E, E6, or E7	Locking System T2, VL, or V3	Locking System E, E6, or E7
	1	4	4	1	2	1
INTERNAL	2	4	4	2	3	2
GROUND SCREWS	3	4	4	3	3	2
	4, 5, 6 *°	6	6	4	4	2
	1	38.71 [1.524]	30.96 [1.219]	38.72 [1.524]	30.96 [1.219]	32.33 [1.273]
	2	47.04 [1.852]	39.29 [1.547]	47.07 [1.852]	39.29 [1.547]	40.64 [1.600]
X DIMENSION	3	60.76 [2.392]	53.19 [2.094]	60.76 [2.392]	53.19 [2.094]	54.61 [2.150]
DIMENSION	4, 6 <mark>*°</mark>	77.22 [3.040]	69.49 [2.736]	77.22 [3.040]	69.49 [2.736] ^{*0}	71.12 [2.800]
	5	74.83 [2.946]	67.11 [2.642]	74.83 [2.946]	67.11 [2.642]	68.60 [2.701]
	1	53.09 [2.090]	50.08 [2.000]	55.84 [2.198]	50.92 [2.005]	35.05 [1.380]
Υ	2	53.09 [2.090]	50.08 [2.000]	62.91 [2.477]	59.96 [2.361]	37.85 [1.490]
DIMENSION	3	53.09 [2.090]	50.08 [2.000]	62.85 [2.474]	59.96 [2.361]	37.85 [1.490]
	4, 5, 6*0	59.44 [2.340]	57.15 [2.250]	74.07 [2.916]	73.17 [2.881]	37.85 [1.490]
	1, 2, 3, 4	15.65 [.616]	14.88 [.586]	15.65 [.616]	14.88 [.586]	15.65 [.616]
Z Dimension	5	18.47 [.727]	17.70 [.697]	18.47 [.727]	17.70 [.697]	18.47 [.727]
DIMENSION	6 ^{*0}	20.07 [.790]	19.30 [.760]	20.07 [.790]	19.30 [.760]	20.07 [.790]
	1	9.19 [.362] x 12.27 [.483]	9.19 [.362] x 11.51 [.453]	9.19 [.362] x 12.27 [.483]	9.19 [.362] x 11.51 [.453]	8.64 [.340] x 11.98 [.471]
	2	17.53 [.690] x 12.27 [.483]	17.53 [.690] x 11.51 [.453]	17.53 [.690] x 12.27 [.483]	17.53 [.690] x 11.51 [.453]	10.21 [.402] x 12.27 [.483]
MAX CABLE	3	17.53 [.690] x 12.27 [.483]	17.53 [.690] x 11.51 [.453]	17.53 [.690] x 12.27 [.483]	17.53 [.690] x 11.51 [.453]	18.42 [.725] x 12.27 [.483]
OPENING	4	31.55 [1.242] x 12.27 [.483]	31.55 [1.242] x 11.51 [.453]	31.52 [1.241] x 12.27 [.483]	31.52 [1.241] x 11.51 [.453]	31.52 [1.241] x 12.27 [.483]
	5	31.55 [1.242] x 15.09 [.594]	31.55 [1.242] x 14.33 [.564]	31.52 [1.241] x 15.09 [.594]	31.52 [1.241] x 14.33 [.564]	31.44 [1.238] x 15.09 [.594]
	6*0	31.55 [1.242] x 16.69 [.657]	31.55 [1.242] x 15.93 [.627]	31.52 [1.241] x 16.69 [.657]	31.52 [1.241] x 15.93 [.627]	31.52 [1.241] x 16.69 [.657]
	1	30.54 [1.08] ^{*1}	40.50 [1.43]*²	28.03 [0.99]*1	39.11 [1.38]*²	20.55 [0.72]*1
	2	37.44 [1.32]* <mark>1</mark>	45.24 [1.60]* ²	37.47 [1.32]* <mark>1</mark>	50.39 [1.78]* ²	27.71 [0.98]*1
WEIGHT	3	45.92 [1.62]*1	55.22 [1.95]*²	50.81 [1.79] <mark>*1</mark>	63.19 [2.23]* ²	33.19 [1.17]* ¹
(grams) [ounces]	4	62.06 [2.19]* <mark>1</mark>	71.60 [2.53]*²	71.24 [2.51] <mark>*1</mark>	87.81 [3.10]* ²	40.64 [1.43]* ¹
	5	63.94 [2.26] ^{*1}	74.00 [2.61]* ²	73.56 [2.59]*1	91.80 [3.24]* ²	41.11 [1.45]* ¹
	6*°0	68.44 [2.41]* <mark>1</mark>	69.34 [2.44]* ³	78.88 [2.78] <mark>*1</mark>	91.11 [3.21]*3	44.75 [1.58]* ¹
	1	Std-D:9, 5W1,2WK2; High-D:15,8W2		Std-D:9, 5W1,2WK2; High-D:15,8W2		Std-D: 9; High-D: 15
	2	Std-D:15, 3W3,3WK3,7W2,11W1; High-D:26, 19W1		Std-D:15, 3W3,3WK3,7W2,11W1; High-D:26, 19W1		Std-D: 15; High-D: 26
CONTACT	3	Std-D:25, 5W5,9W4,13W3,17W2,21W1; High-D:44, 15W4		Std-D:25, 5W5,9W4,13W3,17W2,21W1; High-D:44, 15W4		Std-D: 25; High-D: 44
ARRANGEMENT COMPATIBILITY	4	Std-D:37, 8W8,13W6,17W5,21WA4,25W3,27W2; High-D:62, 45W2		Std-D:37, 8W8,13W6,17W5,21WA4,25W3,27W2; High-D:62, 45W2		Std-D: 37; High-D: 62
	5	Std-D:50, 24W7,36W4,43W2,47W1; High-D:78		Std-D:50, 24W7,36W4,43W2,47W1; High-D:78		Std-D: 50; High-D: 78
	6 <mark>*0</mark>	Std-D:46W4; High-D:104		Std-D:46W4; High-D:104		High-D: 104

^{*}O=VL/V3 option does not apply for Shell size 6. | *1=Weight for 'E' Jackscrew configuration, contact techincal sales for 'E6' and 'E7" | *2=Weight for 'VL' lock lever, contact technical sales for 'T2' and 'V3' | *3=Weight for 'T2' jackscrew

CREATE A PART

For additional information on accessories listed in Mounting Options, Backshell Style and Locking Systems, see our D-sub Accessories Catalog Contact Technical Sales to include a Lightweight Aluminum Backshell as part of your Positronic connector kit part number.



BACKSHELL TYPE

1.

A Straight Exit

AS Side Exit

AL Low Profile

MATERIAL & FINISH OPTIONS					
Bac	kshell & Cable Clamp Finish	Hardware Material & Finish			
Standard Platings					
N	Nickel	Steel with nickel plate			
С	No finish	Steel with nickel plate			
Optional Platings					
Α	Anodize	Steel with nickel plate			
B*1	Anodize	Brass with zinc plate and chromate seal			
D*1	No finish	Brass with zinc plate and chromate seal			
I	Yellow chromate conversion	Steel with nickel plate			
J*1	Yellow chromate conversion	Brass with zinc plate and chromate seal			

^{*1} Offered only with T2, E, E6, and E7 locking system options

All dimensional tolerances are \pm 0.38 [0.015], unless otherwise specified: \pm 0.03 mm [0.001 inches] for male contact mating diameters; \pm 0.08 mm [0.003 inches] for contact termination diameters; \pm 0.13 mm [0.005 inches] for all other diameters; \pm 0.38 mm [0.015 inches] for all other diameters; \pm 0.38 mm [0.015 inches] for all other diameters are in millimeter [inches]. All dimensions are subject to change. Product pictures may not be identify in appearance to actual production parts.

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#4,900,261 #5,255,580 #5,329,697 #6,260,268 #6,835,079 #7,115,002 #8,944,697 #9,304,263

Patented in Canada, 1992 Other patents pending

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