# ACCESSORIES

## FOR USE WITH D-SUB CONNECTORS





THE SCIENCE OF CERTAINTY®

M016 20/04

# Positronic



Positronic builds premium power and signal connectors for a variety of industries. But every product delivers a single outcome: *Certainty*.

Driven by the mission-critical needs of our customers, we've gone to school on the subject for over 50 years. We approach it with scientific discipline – honing the fusion of raw material, engineering ingenuity, and precision manufacturing to push the next limits of reliability.

And with every new project, our curiosity is reignited. How will certainty be achieved in your system, with its own unique demands? The answers have graced the most formidable missions of our time, from the fires of super-sonic flight to the merciless scapes of Mars.

# WHAT CAN YOU BE CERTAIN ABOUT?

- Rock-solid reliability
- Maximum design flexibility

THE SCIENCE OF CERTAINT

- High efficiency, low heat performance
- Responsive, knowledgeable support

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# BACKSHELLS QUICK REFERENCE



		TECHN	IICAL CHARACTERISTICS			
Backshell Code	Material	Finish	Cable Clamp (Material, finish)	Hardware (Material, finish)	Unique Attributes	Page
AN*	aluminum	nickel	aluminum, nickel	steel with nickel plate	top opening, light weight, EMI	4-5
ALN*	aluminum	nickel	aluminum, nickel	steel with nickel plate	top opening, light weight, EMI, low profile	8
ASN*	aluminum	nickel	aluminum, nickel	steel with nickel plate	side opening, light weight, EMI	6-7
G	zinc, die cast		zinc, die cast		modular opening, EMI/RFI metal	10-13
н	steel	zinc plate with chromate seal	steel, zinc plate with chromate seal		similar to SAE AS85049/48	14
J	glass-filled polyester, UL94 V-0		steel, nickel plate		top opening, for vibration applications	16
L	glass-filled polyester, UL94 V-0		steel, nickel plate		side opening, for vibration applications	16
Y	composite polyester, UL94 V-0		steel, nickel plate for size 50 backshell only.	steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.	EMI/RFI composite. Attenuation: 40+ decibels. Sizes 50 & 104 only	18
z	composite polyester, UL94 V-0			steel with zinc plate and chromate seal or tin plate; stainless steel, passivated.	modular opening, EMI/RFI composite. Attenuation: 40+ decibels.	17

\* See 'Material & Finish Options' chart on page 2 for additional options

# LIGHTWEIGHT ALUMINUM BACKSHELL, QUICK REFERENCE



\* See chart below for 'Material & Finish Options'

	MATERIAL & FINISH OPTIONS												
Code	Backshell & Cable			Hardwa	ire Type			Hardware Material					
oodo	Clamp Finish	T2	E	<b>E</b> 6	E7	VL	<b>V</b> 3	& Finish					
Ν	Nickel	~	~	~	~	~	~	Steel with nickel plate					
	OPTIONAL MATERIAL & FINISHES												
A	Anodize	~	~	~	~	~	~	Steel with nickel plate					
В	Anodize	~	~	~	~			Brass with zinc plate and chromate seal					
с	No finish	~	~	~	~	~	~	Steel with nickel plate					
D	No finish	~	~	~	~			Brass with zinc plate and chromate seal					
I	Yellow chromate conversion	~	~	~	~	~	~	Steel with nickel plate					
J	Yellow Chromate conversion	~	~	~	~			Brass with zinc plate and chromate seal					

# **Custom Machined Aluminum Backshells Available!**

Contact Technical Sales for details.

This product has been designed for use in applications as a lightweight, EMI backshell for D-subminiature connectors. The features of the product are outlined below. Please contact technical sales for pricing and additional options.

#### **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

#### SPACIOUS INTERIOR

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

#### **APERTURE / STRAIN RELIEF**

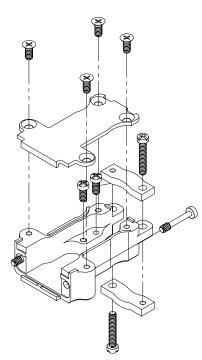
- Appropriate for high density wire bundles using twisted, shielded pairs
- Cable clamps can be "spooned" to provide strain relief for small wire bundle
- Wide form factor allows the user to easily meet bend radius requirements

#### **THUMB GRIP**

· Grip facilitates installation and removal in tight spaces

#### LOCKING SYSTEM

Available with jackscrews or quick disconnect locking device



# 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 Steel with nickel plate

#### ELECTRICAL

Range of Operation, 2 GHz minimum. Calculated Method

# MECHANICAL Ground Screws Can accept up to 6.35mm [.250 inch] diameter ring terminal. Locking System Jackscrews or quick disconnect locking device

#### ENVIRONIMENTAL

Operating Temperature

-55 to 125°C

WEIGHT CHART "												
Backshell Size	D <sup>12</sup> 000ANVL Ounces [grams]	D <sup>*2</sup> 000ANE Ounces [grams]										
9	1.43 [40.50]	1.08 [30.54]										
15	1.60 [45.24]	1.32 [37.44]										
25	1.95 [55.22]	1.62 [45.92]										
37	2.53 [71.60]	2.19 [62.06]										
50	2.61 [74.00]	2.26 [63.94]										
104	n/a	2.41 [68.44]										

\*1 Contact Technical Sales for weights on T2, E6, E7 and V3 hardware options

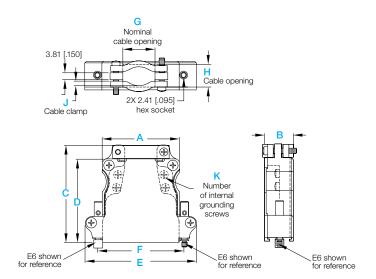
\*2 Designates backshell size in part number. All hardware in a backshell assembly including cable clamps, screws, etc.

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



Backshell, aluminum, top opening\*1





A backshell shown with E option



A backshell shown with E6 option



A backshell shown with E7 option

PART NUMBER	Connector /		Shell Size	Α	В	C	D	Е	F	G	Н		J	К
	Contact Arrangement Compatibility										(Min)	(Max)		
D9000AN*1E0*2 D9000AN*1E60*2 D9000AN*1E70*2	<b>Std-D</b> : 9 <b>High-D</b> : 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	23.06 [.908]	15.65 [.616]	53.09 [2.090]	45.47 [1.790]	38.71 [1.524]	24.99 [.984]	9.19 [.362]	6.10 [.240] <sup>*3</sup>	12.27 [.483]	1.27 [.050]	4
D15000AN*1E0*2 D15000AN*1E60*2 D15000AN*1E70*2	<b>Std-D</b> : 15 <b>High-D</b> : 26	Combo-D: 3W3, 3WK3, 7W2, 11W1 Combo-D High-D: 19W1	2	31.39 [1.236]	15.65 [.616]	53.09 [2.090]	45.47 [1.790]	47.04 [1.852]	33.32 [1.312]	17.53 [.690]	8.89 [.350]* <sup>3</sup>	12.27 [.483]	2.54 [.100]	4
D25000AN*1E0*2 D25000AN*1E60*2 D25000AN*1E70*2	<b>Std-D</b> : 25 <b>High-D</b> : 44	Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 Combo-D High-D: 15W4	3	42.06 [1.656]	15.65 [.616]	53.09 [2.090]	45.47 [1.790]	60.76 [2.392]	47.04 [1.852]	17.53 [.690]	8.89 [.350]* <sup>3</sup>	12.27 [.483]	2.54 [.100]	4
D37000AN*1E0*2 D37000AN*1E60*2 D37000AN*1E70*2	<b>Std-D</b> : 37 <b>High-D</b> : 62	Combo-D: 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Combo-D High-D: 45W2	4	58.52 [2.304]	15.65 [.616]	59.44 [2.340]	51.82 [2.040]	77.22 [3.040]	63.50 [2.500]	31.55 [1.242]	10.41 [.410] <sup>*3</sup>	12.27 [.483]	3.30 [.130]	6
D50000AN*1E0*2 D50000AN*1E60*2 D50000AN*1E70*2	<b>Std-D</b> : 50 <b>High-D</b> : 78	Combo-D: 24W7, 36W4, 43W2, 47W1 Combo-D High-D: n/a	5	56.13 [2.210]	18.47 [.727]	59.44 [2.340]	51.82 [2.040]	74.83 [2.946]	61.11 [2.406]	31.55 [1.242]	10.41 [.410] <sup>*3</sup>	15.09 [.594]	3.30 [.130]	6
D104000AN*1E0*2 D104000AN*1E60*2 D104000AN*1E70*2	<b>Std-D</b> : n/a <b>High-D</b> : 104	Combo-D: 46W4 Combo-D High-D: n/a	6	58.52 [2.304]	20.07 [.790]	59.44 [2.340]	51.82 [2.040]	77.22 [3.040]	63.50 [2.500]	31.55 [1.242]	10.41 [.410] <sup>*3</sup>	16.69 [.657]	3.30 [.130]	6

\*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.

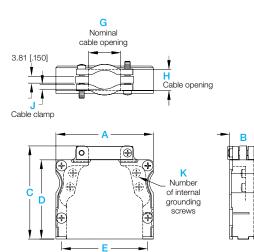
\*2 For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and \*1 note must remain as 'N' (e.g. D90000ANT2G)

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, VL or V3

#### Α

Backshell, aluminum, top opening\*1





A backshell shown with **T2**<sup>\*</sup> option \*also available with polarized fixed jackposts, contact Technical Sales for more information.



A backshell shown with V3\* option \*see page 20 for code 'V3' information.



A backshell shown with VL\* option \*see page 20 for code 'VL' information

PART NUMBER	Connector /		Shell Size		В	С	D	Е	G	Н		J	к
TAIT NOMBER	Contact Arrangement Compatibility									(Min)	(Max)	, in the second	IX.
D9000AN*1T20* <sup>2</sup> D9000AN*1V30 D9000AN*1VL0	Std-D: 9 High-D: 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	30.96 [1.219]	14.88 [.586]	50.08 [2.000]	43.18 [1.700]	24.99 [.984]	9.19 [.362]	6.10 [.240]* <sup>3</sup>	11.51 [.453]	1.14 [.045]	4
D15000AN*1T20*2 D15000AN*1V30 D15000AN*1VL0	<b>Std-D</b> : 15 <b>High-D</b> : 26	Combo-D: 3W3, 3WK3, 7W2, 11W1 Combo-D High-D: 19W1	2	39.29 [1.547]	14.88 [.586]	50.08 [2.000]	43.18 [1.700]	33.32 [1.312]	17.53 [.690]	8.89 [.350]* <sup>3</sup>	11.51 [0.453]	2.54 [.100]	4
D25000AN*1T20*2 D25000AN*1V30 D25000AN*1VL0	<b>Std-D</b> : 25 <b>High-D</b> : 44	Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 Combo-D High-D: 15W4	3	53.19 [2.094]	14.88 [.586]	50.08 [2.000]	43.18 [1.700]	47.04 [1.852]	17.53 [.690]	8.89 [.350]* <sup>3</sup>	11.51 [0.453]	2.54 [.100]	4
D37000AN*1T20*2 D37000AN*1V30 D37000AN*1VL0	<b>Std-D</b> : 37 <b>High-D</b> : 62	Combo-D: 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Combo-D High-D: 45W2	4	69.49 [2.736]	14.88 [.586]	57.15 [2.250]	49.53 [1.950]	63.50 [2.500]	31.55 [1.242]	10.41 [.410] <sup>*3</sup>	11.51 [0.453]	3.30 [.130]	6
D50000AN*1T20* <sup>2</sup> D50000AN*1V30 D50000AN*1VL0	<b>Std-D</b> : 50 <b>High-D</b> : 78	Combo-D: 24W7, 36W4, 43W2, 47W1 Combo-D High-D: n/a	5	67.11 [2.642]	17.70 [.697]	57.15 [2.250]	49.53 [1.950]	61.11 [2.406]	31.55 [1.242]	10.41 [.410] <sup>*3</sup>	14.33 [.564]	3.30 [.130]	6
D104000AN*1T20*2	<b>Std-D</b> : n/a <b>High-D</b> : 104	Combo-D: 46W4 Combo-D High-D: n/a	6	69.49 [2.736]	19.30 [.760]	57.15 [2.250]	49.53 [1.950]	63.50 [2.500]	31.55 [1.242]	10.41 [.410] <sup>*3</sup>	15.93 [.627]	3.30 [.130]	6

\*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.

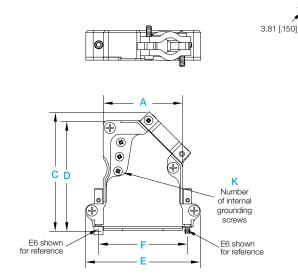
\*2 For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and \*1 note must remain as 'N' (e.g. D90000ANT2G)

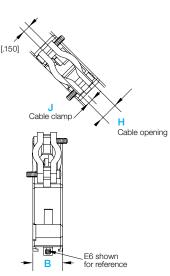
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

For use with code E, E6 or E7

#### AS

Backshell, aluminum, side opening"







AS backshell shown with E option



AS backshell shown with E6 option



AS backshell shown with E7 option

PART NUMBER	Connector / Contact Arrangement Compatibility		Shell	А	в	С	D	Е	F	G	H	1	J	К
			Size								(Min)	(Max)		
D9000ASN*1E0*2 D9000ASN*1E60*2 D9000ASN*1E70*2	<b>Std-D</b> : 9 <b>High-D</b> : 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	20.01 [.788]	15.65 [.616]	55.84 [2.198]	50.30 [1.980]	38.72 [1.524]	24.99 [.984]	8.64 [.340]	6.10 [.240] <sup>*3</sup>	12.27 [.483]	1.14 [.045]	1
D15000ASN*1E0*2 D15000ASN*1E60*2 D15000ASN*1E70*2	<b>Std-D</b> : 15 <b>High-D</b> : 26	Combo-D: 3W3, 3WK3, 7W2, 11W1 Combo-D High-D: 19W1	2	28.24 [1.112]	15.65 [.616]	62.91 [2.477]	56.90 [2.240]	47.07 [1.852]	33.32 [1.312]	10.21 [.402]	8.89 [.350]* <sup>3</sup>	12.27 [.483]	2.54 [.100]	2
D25000ASN*1E0*2 D25000ASN*1E60*2 D25000ASN*1E70*2	<b>Std-D</b> : 25 <b>High-D</b> : 44	Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 Combo-D High-D: 15W4	3	42.06 [1.656]	15.65 [.616]	62.85 [2.474]	58.17 [2.290]	60.76 [2.392]	47.04 [1.852]	10.21 [.402]	8.89 [.350]* <sup>3</sup>	12.27 [.483]	2.54 [.100]	3
D37000ASN*1E0*2 D37000ASN*1E60*2 D37000ASN*1E70*2	<b>Std-D</b> : 37 <b>High-D</b> : 62	Combo-D: 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Combo-D High-D: 45W2	4	58.52 [2.304]	15.65 [.616]	74.07 [2.916]	68.08 [2.680]	77.22 [3.040]	63.50 [2.500]	31.52 [1.241]	10.41 [.410] <sup>*3</sup>	12.27 [.483]	3.30 [.130]	4
D50000ASN*1E0*2 D50000ASN*1E60*2 D50000ASN*1E70*2	<b>Std-D</b> : 50 <b>High-D</b> : 78	Combo-D: 24W7, 36W4, 43W2, 47W1 Combo-D High-D: n/a	5	56.13 [2.210]	18.47 [.727]	74.07 [2.916]	68.08 [2.680]	74.83 [2.946]	61.11 [2.406]	31.52 [1.241]	10.41 [.410] <sup>*3</sup>	15.09 [.594]	3.30 [.130]	4
D104000ASN* <sup>1</sup> E0* <sup>2</sup> D104000ASN* <sup>1</sup> E60* <sup>2</sup> D104000ASN* <sup>1</sup> E70* <sup>2</sup>	<b>Std-D</b> : n/a <b>High-D</b> : 104	Combo-D: 46W4 Combo-D High-D: n/a	6	58.52 [2.304]	20.07 [.790]	74.07 [2.916]	68.08 [2.680]	77.22 [3.040]	63.50 [2.500]	31.52 [1.241]	10.41 [.410] <sup>*3</sup>	16.69 [.657]	3.30 [.130]	4

\*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.

\*2 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. D90000ANT2G)

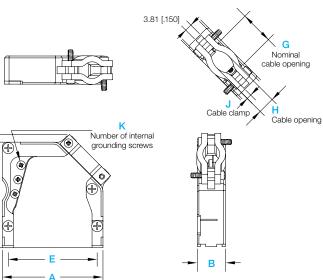
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

For use with code T2, VL or V3

#### AS

CD







AS backshell shown with T2 option



**AS** backshell hown with **V3**\* option \*see page 20 for code 'V3' information



AS backshell shown with VL\* option \*see page 20 for code 'VL' information

PART NUMBER	Connector /		Shell	А	В	C ±0.64	D	Е	G	Н		J	К
	Contact	Arrangement Compatibility	Size			[.025]				(Min)	(Max)		
D9000ASN* <sup>1</sup> T20* <sup>2</sup> D9000ASN* <sup>1</sup> V30 D9000ASN* <sup>1</sup> VL0	<b>Std-D</b> : 9 <b>High-D</b> : 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	30.96 [1.219]	14.88 [.586]	50.92 [2.005]	48.26 [1.900]	24.99 [.984]	8.64 [.340]	6.10 [.240]* <sup>3</sup>	11.51 [0.453]	1.14 [.045]	2
D15000ASN* <sup>1</sup> T20* <sup>2</sup> D15000ASN* <sup>1</sup> V30 D15000ASN* <sup>1</sup> VL0	<b>Std-D</b> : 15 <b>High-D</b> : 26	Combo-D: 3W3, 3WK3, 7W2, 11W1 Combo-D High-D: 19W1	2	39.29 [1.547]	14.88 [.586]	59.96 [2.361]	55.88 [2.200]	33.32 [1.312]	10.21 [.402]	8.89 [.350]* <sup>3</sup>	11.51 [0.453]	2.54 [.100]	3
D25000ASN* <sup>1</sup> T20* <sup>2</sup> D25000ASN* <sup>1</sup> V30 D25000ASN* <sup>1</sup> VL0	<b>Std-D</b> : 25 <b>High-D</b> : 44	Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 Combo-D High-D: 15W4	3	53.19 [2.094]	14.88 [.586]	59.96 [2.361]	55.88 [2.200]	47.04 [1.852]	10.21 [.402]	8.89 [.350]* <sup>3</sup>	11.51 [0.453]	2.54 [.100]	3
D37000ASN* <sup>1</sup> T20* <sup>2</sup> D37000ASN* <sup>1</sup> V30 D37000ASN* <sup>1</sup> VL0	<b>Std-D</b> : 37 <b>High-D</b> : 62	Combo-D: 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Combo-D High-D: 45W2	4	69.49 [2.736]	14.88 [.586]	73.17 [2.881]	69.85 [2.750]	63.50 [2.500]	31.52 [1.241]	10.41 [.410] <sup>*3</sup>	11.51 [0.453]	3.30 [.130]	4
D50000ASN*1T20*2 D50000ASN*1V30 D50000ASN*1VL0	<b>Std-D</b> : 50 <b>High-D</b> : 78	Combo-D: 24W7, 36W4, 43W2, 47W1 Combo-D High-D: n/a	5	67.11 [2.642]	17.70 [.697]	73.17 [2.881]	69.85 [2.750]	61.11 [2.406]	31.52 [1.241]	10.41 [.410]* <sup>3</sup>	14.33 [.564]	3.30 [.130]	4
D104000ASN*1T20*2	<b>Std-D</b> : n/a <b>High-D</b> : 104	Combo-D: 46W4 Combo-D High-D: n/a	6	69.49 [2.736]	19.30 [.760]	73.17 [2.881]	69.85 [2.750]	63.50 [2.500]	31.52 [1.241]	10.41 [.410]* <sup>3</sup>	15.93 [.627]	3.30 [.130]	4

\*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.

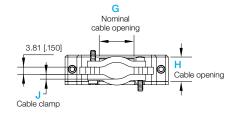
\*2 For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and \*1 note must remain as 'N' (e.g. D90000ANT2G)

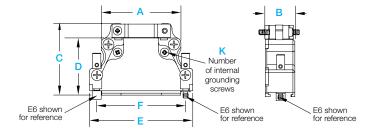
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

#### For use with code E, E6 or E7

#### AL









AL backshell shown with E option



AL backshell shown with E6 option



AL backshell shown with E7 option

PART NUMBER	Connector / Contact Arrangement	Shell	А	В	C	D	E	F	G	н		J	К
	Compatibility	Size								(Min)	(Max)		
D9000ALN*1E0*2 D9000ALN*1E60*2 D9000ALN*1E70*2	<b>Std-D</b> : 9 <b>High-D</b> : 15	1	20.32 [.800]	15.65 [.616]	35.05 [1.380]	27.69 [1.090]	32.33 [1.273]	24.99 [.984]	8.64 [.340]	5.81 [.229]* <sup>3</sup>	11.98 [0.471]	1.140 [.045]	1
D15000ALN* <sup>1</sup> E0* <sup>2</sup> D15000ALN* <sup>1</sup> E60* <sup>2</sup> D15000ALN* <sup>1</sup> E70* <sup>2</sup>	<b>Std-D</b> : 15 <b>High-D</b> : 26	2	28.45 [1.120]	15.65 [.616]	37.85 [1.490]	30.23 [1.190]	40.64 [1.600]	33.32 [1.312]	10.21 [.402]	6.10 [.240] <sup>*3</sup>	12.27 [.483]	1.140 [.045]	2
D25000ALN*1E0*2 D25000ALN*1E60*2 D25000ALN*1E70*2	<b>Std-D</b> : 25 <b>High-D</b> : 44	3	42.06 [1.656]	15.65 [.616]	37.85 [1.490]	30.23 [1.190]	54.61 [2.150]	47.04 [1.852]	18.42 [.725]	8.89 [.350]* <sup>3</sup>	12.27 [.483]	2.54 [.100]	2
D37000ALN*1E0*2 D37000ALN*1E60*2 D37000ALN*1E70*2	<b>Std-D</b> : 37 <b>High-D</b> : 62	4	58.52 [2.304]	15.65 [.616]	37.85 [1.490]	30.23 [1.190]	71.12 [2.800]	63.50 [2.500]	31.52 [1.241]	10.41 [.410] <sup>*3</sup>	12.27 [.483]	3.30 [.130]	2
D50000ALN*1E0*2 D50000ALN*1E60*2 D50000ALN*1E70*2	<b>Std-D</b> : 50 <b>High-D</b> : 78	5	56.13 [2.210]	18.47 [.727]	37.85 [1.490]	30.23 [1.190]	68.60 [2.701]	61.11 [2.406]	31.44 [1.238]	10.41 [.410] <sup>*3</sup>	15.09 [.594]	3.30 [.130]	2
D104000ALN* <sup>1</sup> E0* <sup>2</sup> D104000ALN* <sup>1</sup> E60* <sup>2</sup> D104000ALN* <sup>1</sup> E70* <sup>2</sup>	<b>Std-D</b> : n/a <b>High-D</b> : 104	6	58.52 [2.304]	20.07 [.790]	37.85 [1.490]	30.23 [1.190]	71.12 [2.800]	63.50 [2.500]	31.52 [1.241]	10.41 [.410] <sup>*3</sup>	16.69 [.657]	3.30 [.130]	2

\*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.

\*2 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. D90000ANT2G)

# DIECAST / METAL BACKSHELL, QUICK REFERENCE



	HARDWARE QUICK REFERENCE OPTIONS									
Backshell	No Hardware	Rotating Jackscrews	Fixed Jackscrews	Quick Disconnect Locking System	Low Profile	Extended Height	Adapter	Cable Opening	EMI / RFI	Page
G	1	~	~	~	~	~	~	Modular	EMI/RFI	10-13
н	~	~	~	~	~			Тор		14

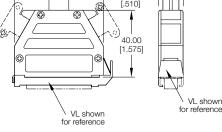
# ZINC, DIECAST BACKSHELLS\*1

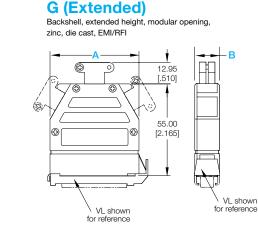
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

#### For use with code VL

#### **G** (Low Profile)









G backshell 'low profile' shown



G backshell 'low profile' shown with VL\* option \*see page 20 for code 'VL' information



G backshell shown with -1023.2 extended option



G backshell shown with -1023.0 extended and VL\* options \*see page 20 for code 'VL' information

**FEATURES** 

- Automatic rapid locking system keeps connection secure and is easy to unlock using the slide latch when needed.
- Gripping shoulders enable trouble-free extraction of the connector assembly, even with tightly packed aligned cable adapters.
- Cable adapters are designed with multiple entries and can permit the looping through of cables. Cable entries not used are sealed to maintain EMI/RFI shielding.
- Two height options are available, low-profile or an increased height option.

	Shell	Backshe	ll Height		<b>D</b>	Cable Exit	Cable C	pening						
PART NUMBER	Size	Low Profile	Extended	A	В	Option	(Min)	(Max)						
D9000G00 D9000GVL0	1	Low Profile		32.00	14.60	2 Side* <sup>2</sup>	3.00	11.99						
D9000G00-1023.2 D9000GVL0-1023.0		Extended		[1.260]	[.575]	2 Side -	[.118]	[.472]						
D15000G00 D15000GVL0	2	Low Profile		39.30	14.60	1 Top, 2 Side* <sup>3</sup>	3.00	11.99						
D15000G00-1023.2 D15000GVL0-1023.0	2		Extended	[1.547]	[.575]		[.118]	[.472]						
D25000G00 D25000GVL0	3	Low Profile		53.20	14.60	1 Top, 2 Side <sup>+3</sup>	3.00	11.99						
D25000G00-1023.2 D25000GVL0-1023.0			Extended	[2.094]	[.575]	1 Top, 2 Side -	[.118]	[.472]						
D37000G00 D37000GVL0						4	4	Low Profile		69.50	14.60	1 Top, 2 Side <sup>+3</sup>	3.00	11.99
D37000G00-1023.2 D37000GVL0-1023.0	4		Extended	[2.736]	[.575]	1 10p, 2 Side"	[.118]	[.472]						
D50000G00 D50000GVL0	- 5	Low Profile		67.00	17.90	1 Top 0 Sidet	5.00	14.00						
D50000G00-1023.2 D50000GVL0-1023.0			Extended	[2.638]	[.705]	1 Top, 2 Side <sup>*3</sup>	[.197]	[.551]						

\*1 To prevent stripping of the backshell assembly screws, we recommend using pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales. For the mounting screws, we recommend using a standard phillips head screwdriver bit.

\*2 These backshells are supplied with one (1) cable clamp set and one (1) opening plug. See page 13 for optional crimp Ferrule system.

\*3 These backshells are supplied with one (1) cable clamp set and two (2) opening plugs. See page 13 for optional crimp Ferrule system.

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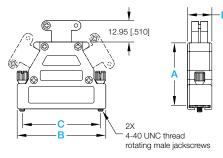
# ZINC, DIE CAST BACKSHELLS\*1

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

#### **G** (Low Profile)

Backshell, modular opening, zinc, die cast, EMI/RFI, low profile



# G (Extended) Backshell, extended height, modular opening, zinc, die cast, EMI/RFI



G backshell 'low profile' shown with E option



G backshell shown with -1023.5 extended and internal hex jackpost options

#### FEATURES

- Gripping shoulders enable trouble-free extraction of the connector assembly even with tightly packed aligned backshells.
- Rotating jackscrews offer the most secure mechanical locking of the connector system.
- Standard height backshells for use with connector shell sizes 1 and 2 are available with a top or side cable exit option. Contact Technical Sales for details.
- For use with connector shell sizes 3 5 are designed with three (3) cable entries and can permit the looping through of cables. Cable entries not used are sealed with supplied metal plugs to maintain EMI/ RFI shielding qualities.
- Two (2) height options are available, one being a low profile option. An extended height option is offered for use with power conductors and coaxial cable, such as might be used with the Positronic CBD/CBM series connectors.
- Grounding to the backshells may be accomplished by fastening wires inside backshell with an M2.5 threaded Posidriv head screw.

	Shell	Backshe	ll Height		D	•	D	Cable Exit	Cable (	Dpening
PART NUMBER	Size	Low Profile	Extended	А	В	C	U	Option	(Min)	(Max)
D9000GE0 D9000GE0-1023.50	1	Low Profile		35.50 [1.398]	31.00	25.00	14.80	1 Top 1 Side	3.00	11.99
D9000GE0-1023.5 D9000GE0-1023.49			Extended*2	50.50 [1.988]	[1.220]	[.984]	[.582]	1 Side 1 Top	[.118]	[.472]
D15000GE0 D15000GE0-1579.0	2	Low Profile		40.00 [1.575]	39.40	33.30	14.80	1 Top, 1 Side <sup>*3</sup> 1 Side <sup>*3</sup>	3.00	11.99
D15000GE0-1023.5	-		Extended*2	55.00 [2.165]	[1.551]	[1.311]	[.582]	1 Top, 1 Side* <sup>3</sup>	[.118]	[.472]
D25000GE0	- 3	Low Profile		40.00 [1.575]	53.20	47.00	14.80	1 Top, 2 Side*4	3.00	11.99
D25000GE0-1023.5			Extended*2	55.00 [2.165]	[2.094]	] [1.850]	[.582]	1 100, 2 0100	[.118]	[.472]
D37000GE0	4	Low Profile		40.00 [1.575]	69.50	63.50	14.80	1 Top, 2 Side*4	3.00	11.99
D37000GE0-1023.5			Extended*2	55.00 [2.165]	[2.736]	[2.500]	[.582]	1 100, 2 0106	[.118]	[.472]
D50000GE0	- 5	Low Profile		42.00 [1.654]		17.60	1 Top. 2 Side*4	5.00	14.00	
D50000GE0-1023.5	5		Extended*2	57.00 [2.244]		38] [2.406]	[.692]	1 Top, 2 Side*4	[.197]	[.551]
D104000GE0	6	Low Profile		39.62 [1.560]	72.01 [2.835]	63.50 [2.500]	19.40 [.764]	1 Top, 2 side <sup>*4</sup>	5.00 [.197]	14.00 [.551]

\*1 To prevent stripping of the backshell assembly screws, we recommend using Pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales. Standard height GE backshell use the Pozidriv style jackscrews.

\*2 The extended height backshells use an internal hex jackscrew. Internal hex jackscrews are available for the standard height, but require an MOS.

\*3 These backshells are supplied with one (1) cable clamp set and one (1) opening plug. See page 13 for optional crimp Ferrule system.

\*4 These backshells are supplied with one (1) cable clamp set and two (2) opening plugs. See page 13 for optional crimp Ferrule system.

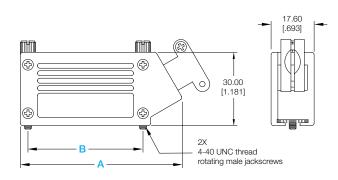
# ZINC, DIE CAST ADAPTERS

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 G backshell

#### **GA (Adapter)**

Backshell adapter, side opening, zinc, die cast, EMI/RFI





GA adapter shown

#### **FEATURES**

- Can be used as a gender changer which provides EMI/RFI protection.
- Allows for internal placement of a printed circuit board between the connectors.
- Can be used to adapt connectors of one interface standard to another.
- Used in applications where tapping into the electrical line path between connectors is necessary. A cable exit is provided for this application.
- If no connector is inserted into the rear side of the adapter backshell, the opening can be closed with a
  optional cover plate which can be adapted for use with LED's, mini-switches, and coaxial connectors.
  (Optional cover plate to be ordered separately)
- Jackscrew locking system is supplied as a standard for secure mechanical coupling.
- Grounding to the backshell may be accomplished by fastening wires inside backshell with an M2.5 threaded Pozidrive head screw.

PART NUMBER	Shell	А	В	Cable C	pening	<b>Optional Cover</b>	Optional Cable
	Size	A	D	(Min)	(Max)	Plate	Opening Plug <sup>*2</sup>
D9000GA0	1	44.00 [1.733]	25.00 [0.984]	3.00 [.118]	11.99 [.472]	A4589-9-0-0* <sup>3</sup>	A4596-1-0-0* <sup>3</sup>
D15000GA0	2	52.30 [2.059]	33.30 [1.311]	3.00 [.118]	11.99 [.472]	A4589-15-0-0* <sup>3</sup>	A4596-1-0-0* <sup>3</sup>
D25000GA0	3	66.00 [2.598]	47.00 [1.850]	3.00 [.118]	11.99 [.472]	A4589-25-0-0* <sup>3</sup>	A4596-1-0-0* <sup>3</sup>
D37000GA0	4	82.50 [3.248]	63.50 [2.500]	3.00 [.118]	11.99 [.472]	A4589-37-0-0* <sup>3</sup>	A4596-1-0-0* <sup>3</sup>

\*1 To prevent stripping of the backshell assembly screws, we recommend using Pozidriv screwdriver bits available from stock using part number 9535-2-2-0, contact Technical Sales.

\*2 See page 13 for optional Crimp Ferrule System.

\*3 Must be purchased separately.

# CRIMP FERRULE SYSTEMS

The crimp ferrule system can be used with all Positronic code "G" backshells and is recommended when maximizing EMI/RFI protection is desired.

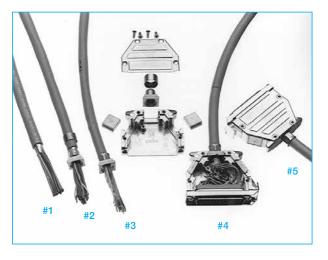
The crimp ferrule system optimizes the transition of the cable shield into the cable adapter in three ways.

- It provides a low impedance connection of the cable shield to the cable adapter which remains constant over time.
- The system provides an EMI/RFI tight cable exit point.
- The system provides for high mechanical retention of the cable in the cable adapter.



For use with code G backshell

Crimp ferrule (top left) and crimp flange (bottom right)



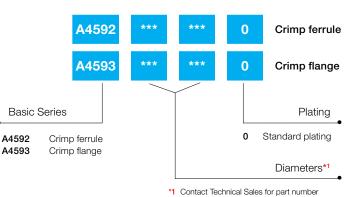
#### **APPLICATION INSTRUCTIONS**

Application of the crimp ferrule system is quite simple.

- **#1** once the cable insulation and shield are cut to the correct dimensions
- #2 the crimp ferrule is placed over the cable and the crimp flange is inserted between the shield and the conductors
- **#3** the crimp ferrule is now slid over the cable insulation into position over the crimp flange and the crimp is made using Positronic-supplied hand press and die sets
- **#4** this assembly is then terminated to the connector and placed into the cable adapter
- **#5** finally, the cover is placed on the cable adapter and secured using four (4) screws

To order the Positronic supplied hand press, request part number 9520-0-0 or for hand crimp tool, request part number 9521-3-0-0.

To order Positronic-supplied die sets, contact Technical Sales for ordering information, since die sets are customized based on the specific crimp flanges, crimp ferrules and cables used.



#### **CRIMP FERRULE / FLANGE CREAT A PART**

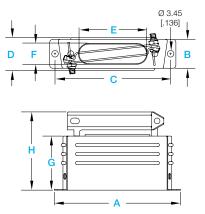
Contact Technical Sales for part number completion which is determined by customerrequired cable diameters and type.

# METAL BACKSHELLS

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

#### Η

Backshell, metal, top opening





PART NUMBER	Shell Size	A	В	C	D (Max)	E	F	G	H (Max)
D15000H00	2	38.89 [1.531]	12.47 [0.491]	33.32 [1.312]	14.68 [.578]	18.11 [.713]	7.92 [.312]	19.05 [.750]	30.96 [1.219]
D25000H00	3	52.78 [2.078]	12.47 [0.491]	47.04 [1.852]	14.68 [.578]	25.40 [1.000]	7.92 [.312]	25.40 [1.000]	38.91 [1.532]
D37000H00	4	69.03 [2.718]	12.47 [0.491]	63.50 [2.500]	14.68 [.578]	34.93 [1.375]	7.92 [.312]	25.40 [1.000]	38.91 [1.532]
D50000H00	5	66.68 [2.625]	15.27 [.601]	61.11 [2.406]	17.45 [.687]	35.69 [1.405]	10.31 [.406]	28.58 [1.125]	42.09 [1.657]

# PLASTIC / COMPOSITE BACKSHELL, QUICK REFERENCE



	HARDWARE QUICK REFERENCE OPTIONS										
Backshell	No Hardware	Rotating Jackscrews	Fixed Jackscrews	Quick Disconnect Locking System	Low Profile	Extended Height	Adapter	Cable Opening	EMI / RFI	Page	
J	~		~	~				Тор		16	
L	~		~	~				Side		16	
Y		~						Тор	EMI/RFI	18	
z		~	~					Modular	EMI/RFI	17	

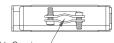
# PLASTIC BACKSHELLS

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

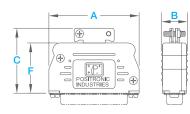
For use with code VL, V3 and V5

J

Backshell, plastic, top opening

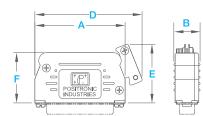


Cable Opening —/



L Backshell, plastic, side opening







J backshell shown



J backshell shown with V3\* option \*see page 20 for code 'V3' information



J backshell shown with V5 option \*see page 20 for code 'V5' information



J backshell shown with VL option \*see page 20 for code 'VL' information



L backshell shown

PART NUMBER	Shell	А	В	C	D	E	F	Cable O	pening
	Size							(Min)	(Max)
D9000J0*10	1	32.05	15.06	29.11	38.61	26.16	21.95	Ø3.43	Ø7.11
D9000L0*10		[1.262]	[.593]	[1.146]	[1.520]	[1.030]	[.864]	[.145]	[.280]
D15000J0*10	2	39.40	15.77	34.44	48.26	31.50	25.96	Ø4.06	Ø6.99
D15000L0*10		[1.551]	[.621]	[1.356]	[1.900]	[1.240]	[1.022]	[.160]	[.275]
D25000J0*10	3	54.08	15.77	39.70	63.30	35.05	30.12	Ø2.79	Ø6.99
D25000L0*10		[2.129]	[.621]	[1.563]	[2.492]	[1.380]	[1.186]	[.110]	[.275]
D37000J0*10	4	70.66	15.77	49.94	79.20	42.93	38.25	5.84 X 16.00	8.89 X 16.00
D37000L0*10		[2.782]	[.621]	[1.848]	[3.188]	[1.690]	[1.506]	[.230] X [.630]	[.350] X [.630]
D50000J0*10	5	68.28	18.62	49.94	76.58	42.93	38.25	5.84 X 16.00	10.92 X 16.00
D50000L0*10		[2.688]	[.733]	[1.848]	[3.015]	[1.690]	[1.506]	[.230] X [.630]	[.430] X [.630]

\*1 Replace '0' with desired code 'V3, V5 or VL' to obtain desired hardware for backshell (e.g. D9000JV30)

# **COMPOSITE BACKSHELLS**

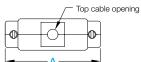
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

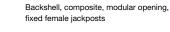
#### Z\*1

Backshell, composite, modular opening, rotating male jackscrews

#### **Z6\*1**

Backshell, composite, modular opening, rotating polarized jackscrews





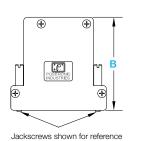
Z4\*1

**Z7<sup>\*1</sup>** Backshell, composite, modular opening, rotating female jackposts

Notes \*1 Illustration is shown for Z backshell. The only difference for Z4, Z6 and Z7 backshells will be jackscrew system.  $\star^2$  Side opening is not available on shell size 5.



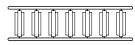
Z backshell shown with rotating male jackscrews



## **TYPICAL INSERTS**

Various inserts are provided to accommodate different cable sizes. (for shell size 1 through 4) Л

#### **INSERT TREE ASSEMBLY**



PART NUMBER	Shell	А	В	C	Cabl	e Opening
	Size		5	Ŭ	(Min)	(Max)
D9000Z00 D9000Z400 D9000Z600 D9000Z700	1	35.23 [1.387]	49.15 [1.935]	18.80 [.740]	2.54 [.100]	10.16 X 14.48 [.400] X [.570]
D15000Z00 D15000Z400 D15000Z600 D15000Z700	2	43.56 [1.715]	49.15 [1.935]	18.74 [.738]	2.54 [.100]	10.16 X 14.48 [.400] X [.570]
D25000Z00 D25000Z400 D25000Z600 D25000Z700	3	57.25 [2.254]	55.88 [2.200]	18.74 [.738]	2.54 [.100]	13.97 X 14.48 [.550] X [.570]
D37000Z00 D37000Z400 D37000Z600 D37000Z700	4	73.74 [2.903]	55.88 [2.200]	18.62 [.733]	2.54 [.100]	13.97 X 14.48 [.550] X [.570]
D50000Z00 D50000Z400 D50000Z600 D50000Z700	5	71.35 [2.809]	68.58 [2.700]	22.74 [.895]	2.54 [.100]	Ø16.00 [.630]





Z4 backshell shown with fixed female jackposts



Z6 backshell shown with male and female rotating jackscrews



Z7 backshell shown with female rotating jackscrews

# **COMPOSITE BACKSHELLS**

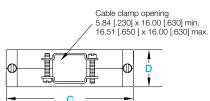
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

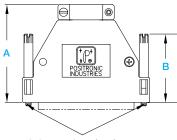
#### Y (size 50)\*1

Backshell, composite, size 50, top opening, rotating male jackscrews

#### Y6 (size 50)\*1

Backshell, composite, size 50, top opening, rotating polarized jackscrews





Jackscrews shown for reference

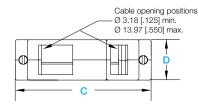
Note \*1 Illustrations shown for Y backshell. The only difference for Y6 backshell will be jackscrew system and 'B' dimension.

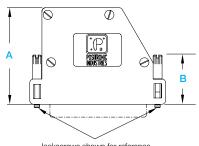
#### Y (size 104)\*1

Backshell, composite, size 104, top/side opening, rotating male jackscrews

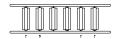
## Y6 (size 104)\*1

Backshell, composite, size 104, top/side opening, rotating polarized jackscrews





Jackscrews shown for reference



Cable opening insert tree for size 104 backshell



Y for size 50



Y for size 104





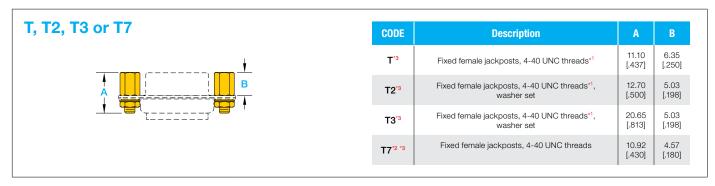


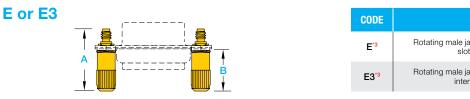
Y6 for size 104

#### Contact Technical Sales for availability of other size backshells

PART NUMBER	Shell Size	А	В	C	D	
D50000Y00	5	51.94	38.02 [1.497]	67.44	19.66	
D50000Y600	5	[2.045]	30.08 [1.200] max.	[2.655]	[.774]	
D104000Y00		51.08	26.04 [1.025]	71.88	21.29	
D104000Y600	6	[2.011]	25.04 [.986]	[2.830]	[.838]	

# JACKSCREW SYSTEM





CODE	Description	A	В
E <sup>*3</sup>	Rotating male jackscrews, 4-40 UNC threads, slotted thumbscrews	16.43 [.647]	11.10 [.437]
E3*3	Rotating male jackscrews, 4-40 UNC threads, internal hex, low profile	16.43 [.647]	11.10 [.437]

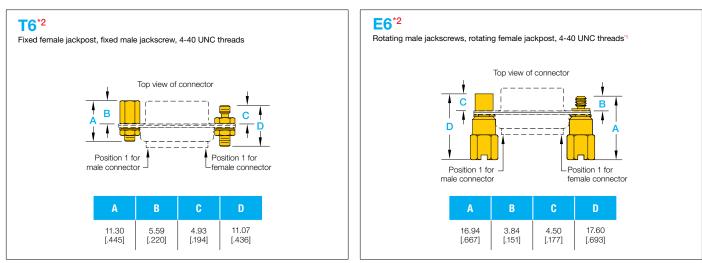


\*1 Internal thread length of T, T2 or T3 jackscrews is 3.05 [.120] nominal. Jackscrew supplied on connectors in combination with other accessories may differ dimensionally, contact Technical Sales for more information.

\*2 T7 jackscrews supplied on connectors in combination with other accessories may differ dimensionally, contact Technical Sales for more information.

\*3 T, T2, T3, T7, E, E2 or E3 passivated stainless steel jackscrews available. Contact Technical Sales for ordering information.

# JACKSCREW SYSTEM - CODING DEVICE (KEYING)



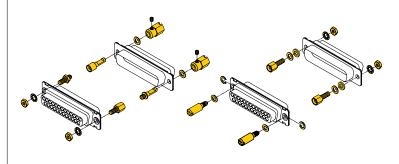
\*1 For customer installations of knobs onto jackscrews, recommend set screw torque value of 16 in-oz. Recommend application of thread lock to set screw.

\*2 T6 or E6 passivated stainless steel options available. Contact Technical Sales for ordering information.

# JACKSCREW SYSTEM - CODING DEVICE (KEYING) OPTIONS

#### UP TO EIGHT CODING DEVICE OPTIONS! Jackscrews can be supplied in configurations to allow for up to four coding device

options, as shown in the table. an additional four coding device options can be achieved by reversing the connector genders.



Option	Male Connector	Code (MOS)	Female Connector	Code (MOS)
1	2 male rotating	E *2	2 female fixed	T *2
2	2 female rotating	E6 * <sup>2</sup> (-833.7* <sup>3</sup> )	2 male fixed	T6 <sup>*2</sup> (-866.1 <sup>*3</sup> )
3	1 female rotating*1 1 male rotating*1	E6 *2	1 male fixed <sup>*1</sup> 1 female fixed <sup>*1</sup>	T6 * <sup>2</sup>
4*4	1 male rotating*1 1 female rotating*1	E6 <sup>*2</sup> (-1827.1 <sup>*3</sup> )	1 female fixed <sup>*1</sup> 1 male fixed <sup>*1</sup>	T6 <sup>*2</sup> (-1827.0 <sup>*3</sup> )

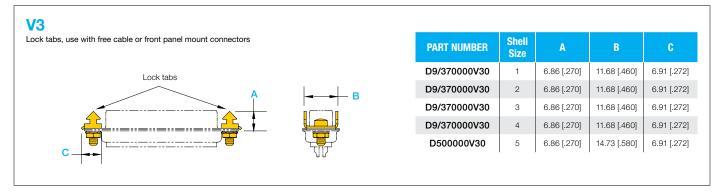
\*1 Additional options are achieved by switching male and female genders.

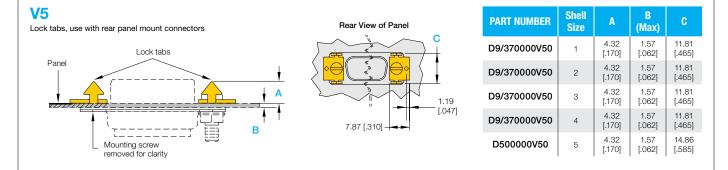
\*2 For dimensional information see page 19.

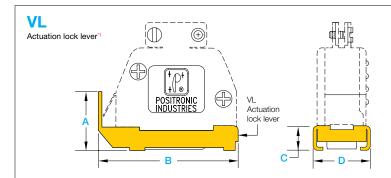
\*3 To achieve keying option required, add MOS suffix '-833.7', '-866.1', '-1827.1' or '-1827.0' to end of final part number.

\*4 Reverse polarized connector.

# QUICK DISCONNECT LOCKING SYSTEMS



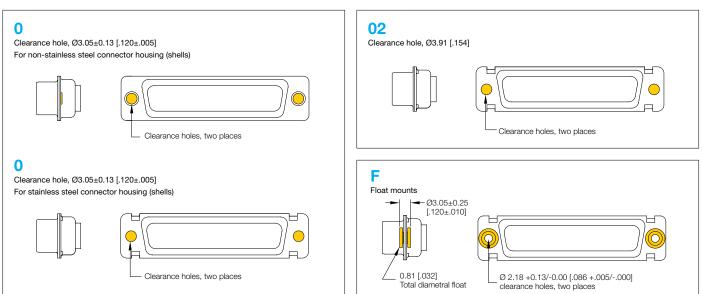




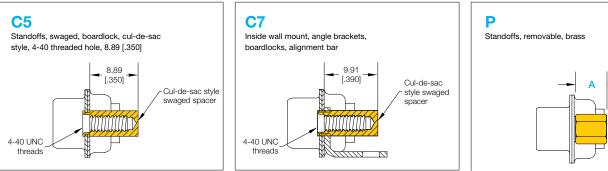
\*1 May be used with front or back mounted locking tabs, see V3 and V5.

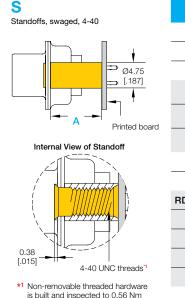
PART NUMBER	Shell Size	А	В	C	D (Max)
D90000VL0	1	14.73 [.580]	37.08 [1.460]	6.53 [.257]	15.04 [.592]
D150000VL0	2	14.73 [.580]	44.96 [1.770]	6.53 [.257]	15.04 [.592]
D250000VL0	3	14.73 [.580]	59.94 [2.360]	6.53 [.257]	15.04 [.592]
D370000VL0	4	14.73 [.580]	76.58 [3.015]	6.53 [.257]	15.04 [.592]
D500000VL0	5	16.13 [.635]	73.66 [2.900]	6.78 [.267]	17.91 [.705]

# **CLEARANCE HOLE / FLOAT MOUNTS**



# SWAGED SPACERS



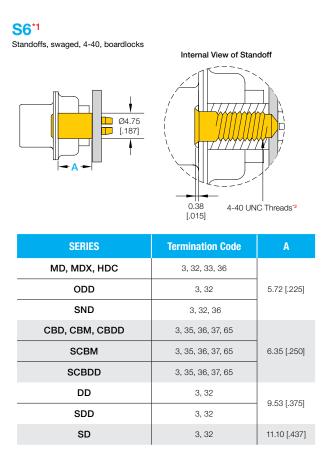


SERIES	Termination Code	А	
MD, MDX, HDC	all		
ODD	21, 3, 32, 4, 5	5.72 [.225]	
SND	2, 3, 32, 36, 42, 5		
CBD, CBM, CBDD	2, 21, 3, 35, 36, 37, 4, 5, 55, 57, 7, 75,77, 65, 85	6.35 [.250]	
SCBM	0, 2, 3, 35, 36, 37, 5, 55, 57, 65, 7, 75, 77, 85		
SCBDD	21, 3, 35, 36, 37, 4, 45, 47, 65, 84		
CBD, CBM, CBDD	93	6.73	
PCD, PCDD	98	[.265]	
RD, ORD, DD, CBC, CBCD	all		
ODD	0, 1, 2		
SND	0, 1, 12	9.53 [.375]	
SDD	all		
SCBC, SCBCD	all		
SD	all	11.10 [.437]	

SERIES	Termination Code	A
MD, MDX, ED, HDC	all	5.72 [.225]
ODD	21, 3, 32, 4, 5	
CBD, CBDD, CBM	all	6.35 [.250]
RD, ORD, DD, CBC, CBCD	all	9.53 [.375]
ODD	0, 1, 2	
SD	all	11.10 [.437]

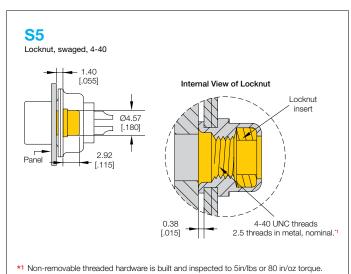
[5in/lbs] or 80 in/oz torque.

# SWAGED SPACER WITH BOARDLOCK



\*1 Printed board mounting hole to be Ø3.12±0.08 [.123±.003] for use with boardlocks.

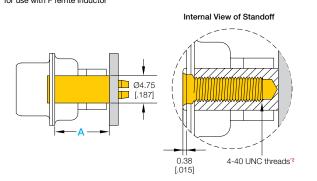
\*2 Non-removable threaded hardware is built and inspected to 5in/lbs or 80 in/oz torque.



# SWAGED LOCKNUT

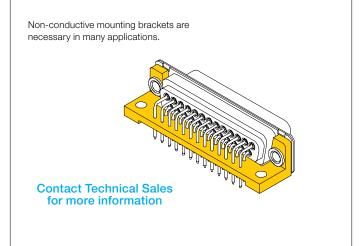
#### **S7**\*1

Standoffs, swaged, 4-40, boardlocks, for use with F ferrite inductor

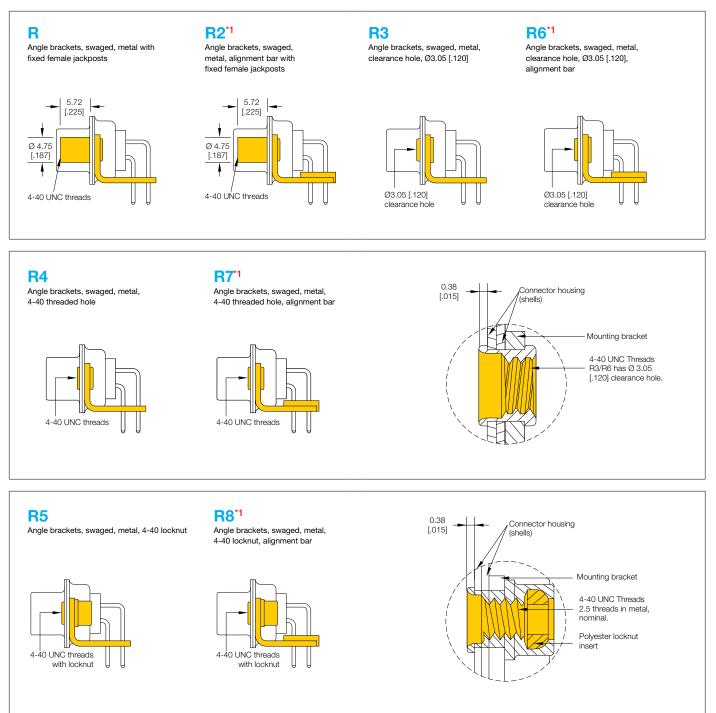


Connector Series	Termination Code	A	
MD, MDX, HDC, ODD	, MDX, HDC, ODD 32, 33		
ED, HDC	36	[.375]	
DD	32, 33	13.08 [.515]	

# SWAGED PLASTIC MOUNTING BRACKETS WITH ALIGNMENT BAR

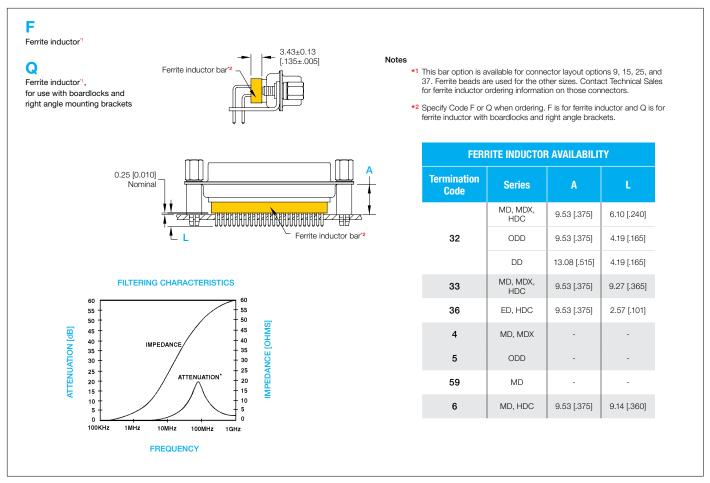


# ANGLE BRACKET<sup>\*1</sup>

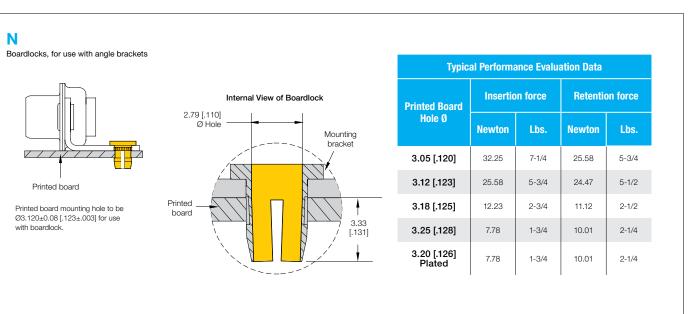


\*1 Contact alignment bar is supplied with R2, R6, R7 and R8 options only.

# FERRITE INDUCTOR BAR / BEADS

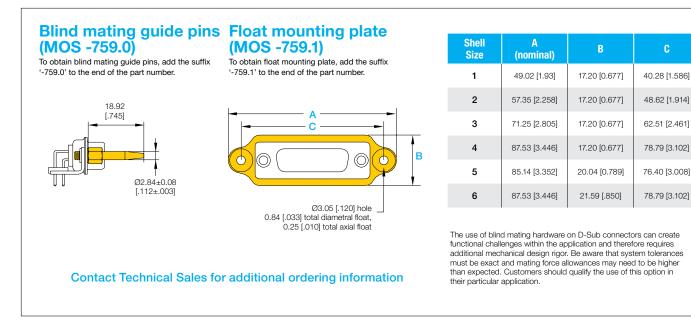


# BOARDLOCKS



#### For use with code R,R2,R3,R4,R5,R6,R7,and R8

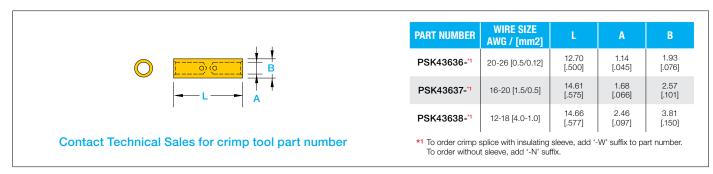
# BLIND MATE SYSTEM



# FLARED CONNECTOR HOUSING (SHELL)

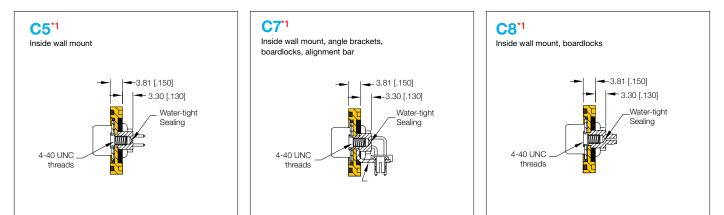


# IN-LINE CRIMP SPLICE

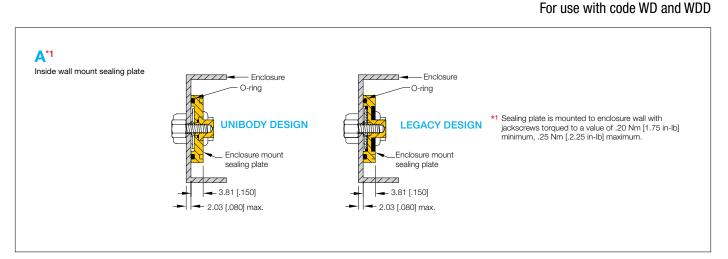


# CUL-DE-SAC STYLE INSIDE WALL MOUNT

#### For use with code WD and WDD

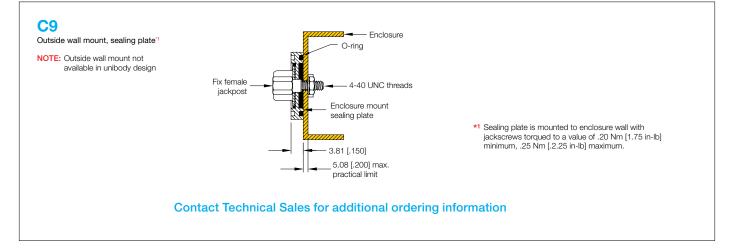


# ENCLOSURE WALL MOUNT SEALING PLATE



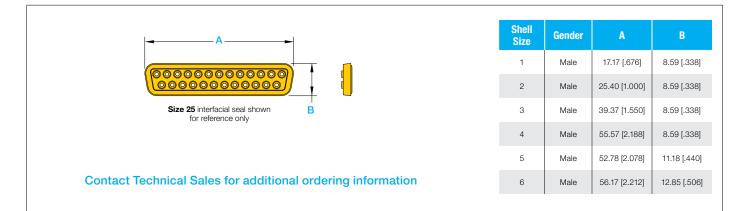
# OUTSIDE WALL ENCLOSURE MOUNT

For use sealed D-sub connectors requiring to be mounted to outside of the enclosure



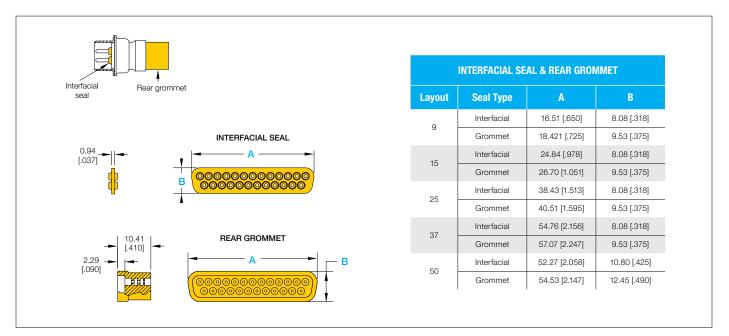
# **INTERFACIAL SEAL**

#### Available for male connectors only. Furnished with all male WD and WDD series connectors



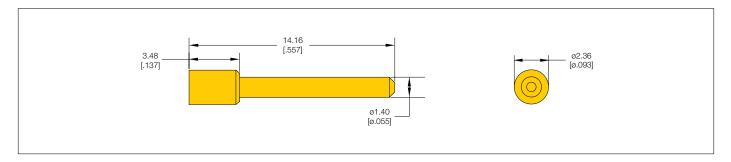
# **INTERFACIAL SEAL / REAR GROMMENTS**

For use with EVD series



# SEALING PLUGS

For use with EVD series, Order separately, part number A4737-37-0-0



# PROTECTIVE COVER \_\_\_\_\_

Cover Without Ears			REPLACEMENT PART NUMBERS			
For connectors without fixed female jackscrews	Shell Size	Gender	Conductive Without Ears	Static Dissipative Without Ears	With Ears	
		Male	A4931-9-0-0	A4931-9-1-0	A4931-9-100-0	
	1	Female	A4932-9-0-0	A4932-9-1-0	A4932-9-100-0	
		Male	A4931-15-0-0	A4931-15-1-0	A4931-15-100-0	
	2	Female	A4932-15-0-0	A4932-15-1-0	A4932-15-100-0	
Cover With Ears		Male	A4931-25-0-0	A4931-25-1-0	A4931-25-100-0	
	3	Female	A4932-25-0-0	A4932-25-1-0	A4932-25-100-0	
		Male	A4931-37-0-0	A4931-37-1-0	A4931-37-100-0	
	4	Female	A4932-37-0-0	A4932-37-1-0	A4932-37-100-0	
	-	Male	A4931-50-0-0	A4931-50-1-0	A4931-50-100-0	
	5	Female	A4932-50-0-0	A4932-50-1-0	A4932-50-100-0	
	c	Male			A4931-16-100-0	
	6	Female			A4932-16-100-0	

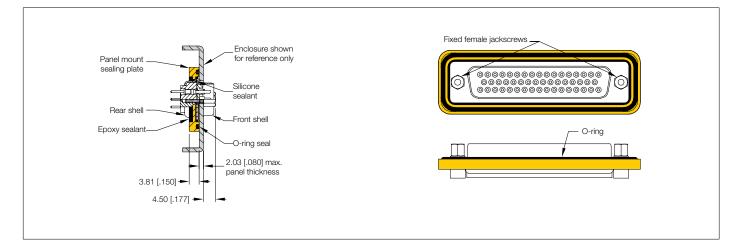
# EMI/RFI PROTECTIVE COVER

#### For use with code SAD, SADD, SACBM, SND, SDD, SCBM, SCBC, SCBDD and SCBCD

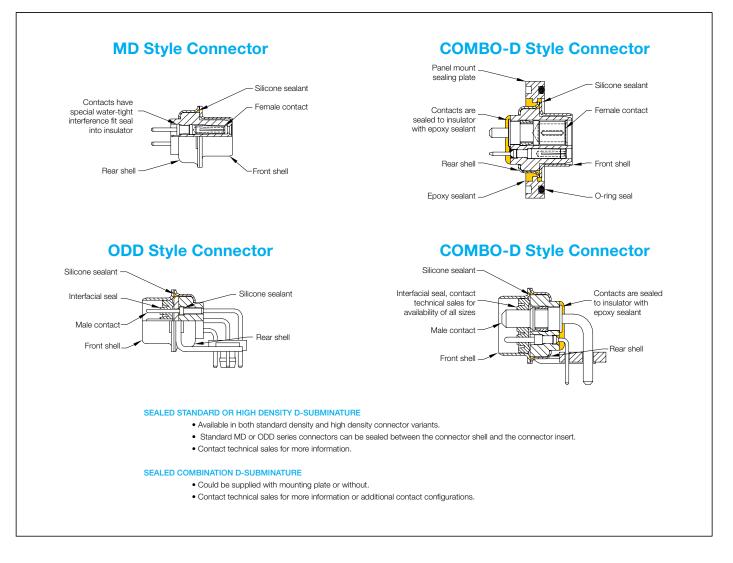
MI/RFI Cover	Shell Size	PART NUMBER	Mates To Gender	A ±0.38 [.015]	B ±0.38 [.015]	C ±0.25 [.010]
A	1	PSK633-9MG*1	Female	30.81 [1.213]	12.55 [.494] -	10.72 [.422]
		PSK633-9FG*1	Male			10.90 [.429]
	0	PSK633-15MG*1	Female	39.14 [1.541]	12.55 [.494] -	10.72 [.422]
	2	PSK633-15FG*1	Male			10.90 [.429]
C	3	PSK633-25MG*1	Female	53.04 [2.088]	12.55 [.494] -	10.82 [.426]
		PSK633-25FG*1	Male			10.90 [.429]
	,	PSK633-37MG*1	Female	00 00 [0 700]	10.55 [ 40.4]	10.82 [.426]
	4	PSK633-37FG*1	Male	69.32 [2.729]	12.55 [.494] -	10.90 [.429]
	5	PSK633-50MG*1	Female	66.93 [2.635]	15.37 [.605]	10.82 [.426]
	5	PSK633-50FG*1	Male	00.93 [2.033]	15.57 [.005]	10.90 [.429]
	6	PSK633-104MG*1	Female	69.32 [2.729]	16.97 [.668]	10.82 [.426]
	0	PSK633-104FG*1	Male	09.02 [2.729]	10.97 [.006]	10.90 [.429]

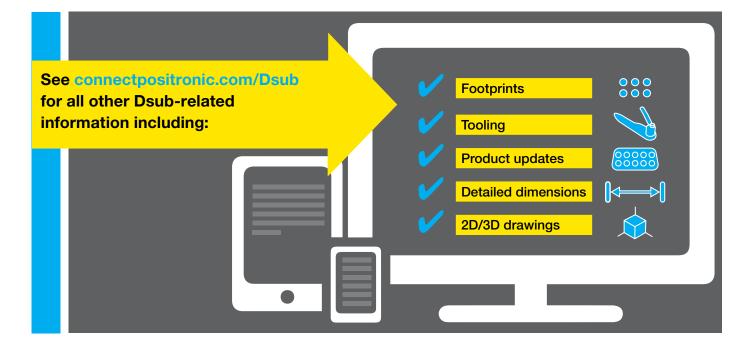
# MACHINED ALUMINUM MOUNTING PLATE

With conductive o-ring



# OTHER SEALED D-SUBMINIATURE CONNECTOR OPTIONS





All dimensional tolerances are  $\pm$  0.38 [0.015], unless otherwise specified. Dimensions are in millimeter [inches]. All dimensions are subject to change. Product pictures may not be identical in appearance to actual production parts.

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Products described within this catalog may be protected by one or more of the following US patents:

#4,900,261<sup>°</sup> #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

Federal Supply Code for Manufacturers

Positronic Industries: 28198 Positronic Industries SAS: FA7Y0 Positronic Asia PTE LTD: QB952

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