ACCESSORIES

FOR USE WITH D-SUB CONNECTORS _







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



TABLE OF CONTENTS

Backshells

Backshells quick reference guide	1
ALUMINUM BACKSHELLS	
Material & finish quick reference options	2
A series	3-9
DIECAST / METAL BACKSHELLS	10
Hardware quick reference options G series	10 11-14
H series	15
PLASTIC / COMPOSITE BACKSHELLS	
Hardware quick reference options	16
J series	17
L series	17
Z series	18
Y series	19
Locking Systems	
Jackscrew systems	20
Jackscrew systems coding device	20-21
Quick disconnect locking system	21
Mounting Options	
Clearance hole / float mounts	22
Swaged spacers	22
Swaged spacer with boardlock	23
Swaged locknut	23
Swaged plastic mounting brackets	23
Right angle brackets	24
Boardlocks and Inductors	
Ferrite inductor bar / beads	25
Boardlocks	25
Other Options	
Blind mate system	26
Flared connector housing (shell)	26
In-line crimp splice	26
Cul-de-sac style inside wall mount	27
Enclosure wall mount sealing plate	27
Outside wall enclousure mount	27
Interfacial seal / rear grommets	28
Sealing plugs	28
Protective cover	29
EMI/RFI protective cover	29
Machined aluminum mounting plate	30
Other sealed D-Sub connector options	30

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 entry, light weight, EMI	4-5
ALN*	aluminum	nickel	aluminum, nickel	steel with nickel plate	top entry, light weight, EMI, low profile	8
ASN*	aluminum	nickel	aluminum, nickel	steel with nickel plate	side entry, light weight, EMI	6-7
G	zinc, die cast		zinc, die cast		modular entry, EMI/RFI metal	10-13
Н	steel	zinc plate	steel, zinc plate		similar to SAE AS85049/48	14
J	glass-filled polyester, UL94 V-0		steel, nickel plate		top entry, for vibration applications	16
L	glass-filled polyester, UL94 V-0		steel, nickel plate		side entry, for vibration applications	16
Υ	composite polyester, UL94 V-0		steel, nickel plate for size 50 backshell only.	steel with zinc plate 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 or tin plate; stainless steel, passivated.	modular entry, 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 & FIN	IISH OPTIONS			
Code	Backshell & Cable			Hardwa	are Type			Hardware Material
Code	Clamp Finish	T2	E	E 6	E 7	VL	V3	& Finish
N	Nickel	~	~	~	~	~	~	Steel with nickel plate
			0	PTIONAL MATER	IAL & FINISHES			
Α	Anodize	~	~	~	~	~	~	Steel with nickel plate
В	Anodize	~	~	~	~			Brass with zinc plate
С	No finish	~	~	~	~	~	~	Steel with nickel plate
D	No finish	~	~	~	~			Brass with zinc plate
I	Chemical conversion coating	~	~	~	~	~	~	Steel with nickel plate
J	Chemical conversion coating	~	~	~	~			Brass with zinc plate

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

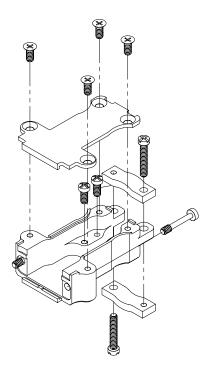
- Appropriate for high density wire bundles using twisted, shielded pairs
- Cable clamps can be "spooned" to provide strain relief for small wire bundle
- Wide form factor allows the user to easily meet bend radius requirements

THUMB GRIP

Grip facilitates installation and removal in tight spaces



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 chemical conversion coating. Zinc content is 1% maximum.

Jackscrews & Screws

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

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

ENVIRONIMENTAL

Operating Temperature -55 to 125°C

	WEIGHT CHART *1	
Backshell Size	D*000ANVL Ounces [grams]	D*2000ANE 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]

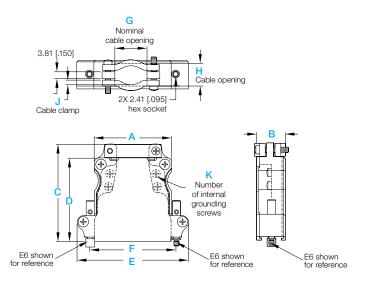
- *1 Contact Technical Sales for weights on T2, E6, E7 and V3 hardware options.
- *2 Designates backshell size in part number. All hardware in a backshell assembly including cable clamps, screws, etc.

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 entry





 $\boldsymbol{\mathsf{A}}$ backshell shown with $\boldsymbol{\mathsf{E}}$ option



A backshell shown with E6 option



 $\boldsymbol{\mathsf{A}}$ backshell shown with $\boldsymbol{\mathsf{E7}}$ option

PART NUMBER		Connector /	Shell	Α	В	С	D	Е	F	G	ı	ł	J	K
	Contact	Arrangement Compatibility	Size								(Min)	(Max)		
D9000AN*1E0*2 D9000AN*1E60*2 D9000AN*1E70*2	Std-D: 9 High-D: 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]* ³	12.27 [.483]	1.27 [.050]	4
D15000AN*1E0*2 D15000AN*1E60*2 D15000AN*1E70*2	Std-D: 15 High-D: 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]* ³	12.27 [.483]	2.54 [.100]	4
D25000AN*1E0*2 D25000AN*1E60*2 D25000AN*1E70*2	Std-D: 25 High-D: 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]* ³	12.27 [.483]	2.54 [.100]	4
D37000AN*1E0*2 D37000AN*1E60*2 D37000AN*1E70*2	Std-D: 37 High-D: 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]* ³	12.27 [.483]	3.30 [.130]	6
D50000AN*1E0*2 D50000AN*1E60*2 D50000AN*1E70*2	Std-D: 50 High-D: 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]* ³	15.09 [.594]	3.30 [.130]	6
D104000AN*1E0*2 D104000AN*1E60*2 D104000AN*1E70*2	Std-D: n/a High-D: 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]* ³	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)

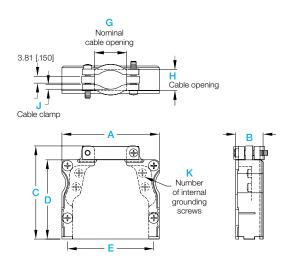
^{*3} Smaller cable openings may be achieved by inverting one or both cable clamps.

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 entry





A backshell shown with T2* 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	A	В	C	D	Е	G	ŀ	1	J	К
	Contact F	Arrangement Compatibility	Size							(Min)	(Max)		
D9000AN*1T20*2 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]* ³	11.51 [.453]	1.14 [.045]	4
D15000AN*1T20*2 D15000AN*1V30 D15000AN*1VL0	Std-D: 15 High-D: 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]* ³	11.51 [0.453]	2.54 [.100]	4
D25000AN*1T20*2 D25000AN*1V30 D25000AN*1VL0	Std-D: 25 High-D: 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]* ³	11.51 [0.453]	2.54 [.100]	4
D37000AN*1T20*2 D37000AN*1V30 D37000AN*1VL0	Std-D: 37 High-D: 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]* ³	11.51 [0.453]	3.30 [.130]	6
D50000AN*1T20*2 D50000AN*1V30 D50000AN*1VL0	Std-D : 50 High-D : 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]* ³	14.33 [.564]	3.30 [.130]	6
D104000AN*1T20*2	Std-D: n/a High-D: 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]* ³	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)

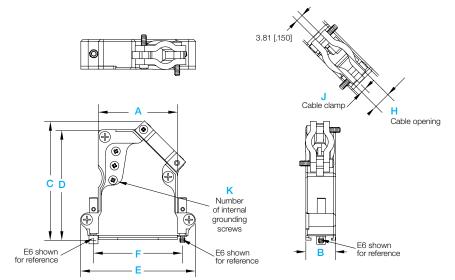
^{*3} Smaller cable openings may be achieved by inverting one or both cable clamps.

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 entry





 $\boldsymbol{\mathsf{AS}}$ backshell shown with $\boldsymbol{\mathsf{E}}$ option



AS backshell shown with E6 option



AS backshell shown with E7 option

PART NUMBER	T NUMBER Contest Arrangement Compatibility		Shell	A	В	C	D	E	F	G		1	J	K
THE HOMBER	Contact	Arrangement Compatibility	Size								(Min)	(Max)		
D9000ASN*1E0*2 D9000ASN*1E60*2 D9000ASN*1E70*2	Std-D: 9 High-D: 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]* ³	12.27 [.483]	1.14 [.045]	1
D15000ASN*1E0*2 D15000ASN*1E60*2 D15000ASN*1E70*2	Std-D: 15 High-D: 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]* ³	12.27 [.483]	2.54 [.100]	2
D25000ASN*1E0*2 D25000ASN*1E60*2 D25000ASN*1E70*2	Std-D: 25 High-D: 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]* ³	12.27 [.483]	2.54 [.100]	3
D37000ASN*1E0*2 D37000ASN*1E60*2 D37000ASN*1E70*2	Std-D: 37 High-D: 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]* ³	12.27 [.483]	3.30 [.130]	4
D50000ASN*1E0*2 D50000ASN*1E60*2 D50000ASN*1E70*2	Std-D: 50 High-D: 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]* ³	15.09 [.594]	3.30 [.130]	4
D104000ASN*1E0*2 D104000ASN*1E60*2 D104000ASN*1E70*2	Std-D: n/a High-D: 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]* ³	16.69 [.657]	3.30 [.130]	4

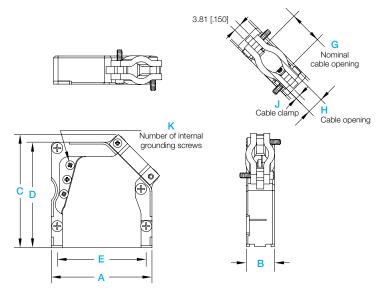
- *1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.
- *2 For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and *1 note must remain as 'N' (e.g. D90000ANT2G)
- *3 Smaller cable openings may be achieved by inverting one or both cable clamps.

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

Backshell, aluminum, side entry





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	Α	В	C ±0.64	D	Е	G	F	1	J	K
	Contact /	Arrangement Compatibility	Size			[.025]				(Min)	(Max)		
D9000ASN*1T20*2 D9000ASN*1V30 D9000ASN*1VL0	Std-D: 9 High-D: 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	30.96 [1.219]	14.88 [.586]	50.92 [2.005]	48.26 [1.900]	24.99 [.984]	8.64 [.340]	6.10 [.240]* ³	11.51 [0.453]	1.14 [.045]	2
D15000ASN*1T20*2 D15000ASN*1V30 D15000ASN*1VL0	Std-D : 15 High-D : 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]* ³	11.51 [0.453]	2.54 [.100]	3
D25000ASN*1T20*2 D25000ASN*1V30 D25000ASN*1VL0	Std-D: 25 High-D: 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]* ³	11.51 [0.453]	2.54 [.100]	3
D37000ASN*1T20*2 D37000ASN*1V30 D37000ASN*1VL0	Std-D: 37 High-D: 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]* ³	11.51 [0.453]	3.30 [.130]	4
D50000ASN*1T20*2 D50000ASN*1V30 D50000ASN*1VL0	Std-D: 50 High-D: 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]* ³	14.33 [.564]	3.30 [.130]	4
D104000ASN*1T20*2	Std-D: n/a High-D: 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]* ³	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)

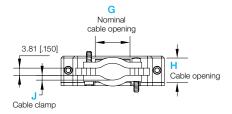
^{*3} Smaller cable openings may be achieved by inverting one or both cable clamps.

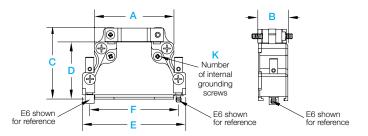
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

For use with code E, E6 or E7

AL

Backshell, aluminum, top entry¹, low profile







AL backshell shown with E option



AL backshell shown with E6 option



AL backshell shown with E7 option

PART NUMBER	Connector / Contact Arrangement	Shell Size	A	В	C	D	E	F	G	ŀ		J	K
	Compatibility	OILU								(Min)	(Max)		
D9000ALN* ¹ E0* ² D9000ALN* ¹ E60* ² D9000ALN* ¹ E70* ²	Std-D: 9 High-D: 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]* ³	11.98 [0.471]	1.140 [.045]	1
D15000ALN*1E0*2 D15000ALN*1E60*2 D15000ALN*1E70*2	Std-D: 15 High-D: 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]* ³	12.27 [.483]	1.140 [.045]	2
D25000ALN*1E0*2 D25000ALN*1E60*2 D25000ALN*1E70*2	Std-D: 25 High-D: 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]* ³	12.27 [.483]	2.54 [.100]	2
D37000ALN*1E0*2 D37000ALN*1E60*2 D37000ALN*1E70*2	Std-D: 37 High-D: 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]* ³	12.27 [.483]	3.30 [.130]	2
D50000ALN*1E0*2 D50000ALN*1E60*2 D50000ALN*1E70*2	Std-D: 50 High-D: 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]* ³	15.09 [.594]	3.30 [.130]	2
D104000ALN* ¹ E0* ² D104000ALN* ¹ E60* ² D104000ALN* ¹ E70* ²	Std-D: n/a High-D: 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]* ³	16.69 [.657]	3.30 [.130]	2

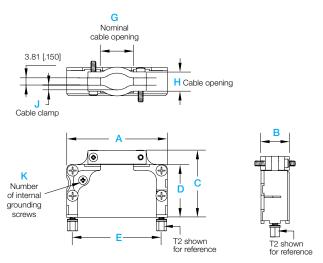
- *1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.
- *2 For 1.27µm min Au over Cu, replace the last '0' with 'G' in part number and *1 note must remain as 'N' (e.g. D90000ALNE6G)
- *3 Smaller cable openings may be achieved by inverting one or both cable clamps.

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

AL

Backshell, aluminum, top entry¹, low profile





AL backshell shown with T2 option



AL backshell shown with V3 option



AL backshell shown with **VL** option

PART NUMBER	Connector / Contact Arrangement	Shell Size	A	В	C	D	Е	G	ı	1	J	K
	Compatibility								(Min)	(Max)		
D9000ALN*1T20*2 D9000ALN*1V30 D9000ALN*1VL0	Std-D: 9 High-D: 15	1	30.96 [1.219]	14.88 [.586]	35.56 [1.400]	27.94 [1.100]	24.99 [.984]	9.19 [.362]	6.10 [.240]* ³	11.51 [.453]	1.14 [.045]	1
D15000ALN*1T20*2 D15000ALN*1V30 D15000ALN*1VL0	Std-D: 15 High-D: 26	2	39.29 [1.547]	14.88 [.586]	35.56 [1.400]	27.94 [1.100]	33.32 [1.312]	17.53 [.690]	8.89 [.350]* ³	11.51 [.453]	2.54 [.100]	1
D25000ALN*1T20*2 D25000ALN*1V30 D25000ALN*1VL0	Std-D: 25 High-D: 44	3	53.19 [2.094]	14.88 [.586]	35.56 [1.400]	27.94 [1.100]	47.04 [1.852]	17.53 [.690]	8.89 [.350]* ³	11.51 [.453]	2.54 [.100]	1
D37000ALN*1T20*2 D37000ALN*1V30 D37000ALN*1VL0	Std-D: 37 High-D: 62	4	69.49 [2.736]	14.88 [.586]	35.56 [1.400]	27.94 [1.100]	63.50 [2.500]	31.55 [1.242]	10.41 [.410]* ³	11.51 [.453]]	3.30 [.130]	1
D50000ALN*1T20*2 D50000ALN*1V30 D50000ALN*1VL0	Std-D : 50 High-D : 78	5	67.11 [2.642]	17.70 [.697]	35.56 [1.400]	27.94 [1.100]	61.11 [2.406]	31.55 [1.242]	10.41 [.410]* ³	14.33 [.564]	3.30 [.130]	1
D104000ALN*1VL0	Std-D: n/a High-D: 104	6	69.49 [2.736]	19.30 [.760]	35.56 [1.400]	27.94 [1.100]	63.50 [2.500]	31.55 [1.242]	10.41 [.410]* ³	15.93 [.627]	3.30 [.130]	1

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

 $[\]star 2$ For 1.27 μ m min Au over Cu, replace the last '0' with 'G' in part number and $\star 1$ note must remain as 'N' (e.g. D90000ALNT2G)

^{*3} Smaller cable openings may be achieved by inverting one or both cable clamps.

DIECAST / METAL BACKSHELL, QUICK REFERENCE _____



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

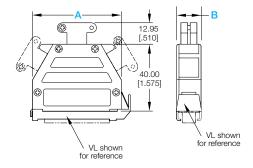
ZINC, DIE CAST BACKSHELLS*1

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 VL

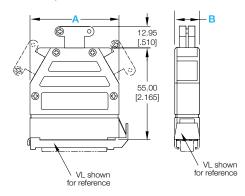
G (Low Profile)

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



G (Extended)

Backshell, extended height, modular entry, zinc, die cast, EMI/RFI





G backshell 'low profile' shown



G backshell 'low profile' shown with **VL*** option *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.

PART NUMBER	Shell	Backshe	II Height	А	В	Cable Exit	Cable 0	pening
PART NUMBER	Size	Low Profile	Extended	A	В	Option	(Min)	(Max)
D9000G00 D9000GVL0	1	Low Profile		32.00	14.60	2 Side* ²	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*3	3.00	11.99
D15000G00-1023.2 D15000GVL0-1023.0	2		Extended	[1.547]	[.575]	1 10p, 2 Side	[.118]	[.472]
D25000G00 D25000GVL0	3	Low Profile		53.20	14.60	1 Top, 2 Side*3	3.00	11.99
D25000G00-1023.2 D25000GVL0-1023.0	3		Extended	[2.094]	[.575]	1 10p, 2 Side	[.118]	[.472]
D37000G00 D37000GVL0	4	Low Profile		69.50	14.60	1 Top, 2 Side*3	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 2 Side*	5.00	14.00
D50000G00-1023.2 D50000GVL0-1023.0	9		Extended	[2.638] [.70		1 Top, 2 Side*3	[.197]	[.551]



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

- *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.

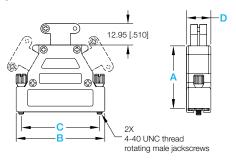
ZINC, DIE CAST BACKSHELLS*1

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

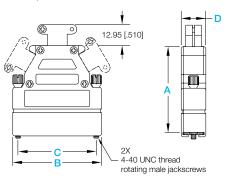
G (Low Profile)

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



G (Extended)

Backshell, extended height, modular entry, 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.

DADT NUMBER	Shell	Backshe	ll Height		В		D	Cable Exit		
PART NUMBER	Size	Low Profile	Extended	A	В	C	и	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	, '		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* ³ 1 Side* ³	3.00	11.99
D15000GE0-1023.5	2		Extended*2	55.00 [2.165]	[1.551]	[1.311]	[.582]	1 Side*3	[.118]	[.472]
D25000GE0	3	Low Profile		40.00 [1.575]	53.20	47.00 [1.850]	14.80	1 Top, 2 Side*4	3.00	11.99
D25000GE0-1023.5	3		Extended*2	55.00 [2.165]	[2.094]		[.582]		[.118]	[.472]
D37000GE0	4	Low Profile		40.00 [1.575]	69.50	63.50	14.80		3.00	11.99
D37000GE0-1023.5	4		Extended*2	55.00 [2.165]	[2.736]	[2.500]	[.582]	1 Top, 2 Side*4	[.118]	[.472]
D50000GE0	_	Low Profile		42.00 [1.654]	67.00	61.10	17.60	4 To 20 Olido#4	5.00	14.00
D50000GE0-1023.5	5		Extended*2	57.00 [2.244]	[2.638]	[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*4	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.

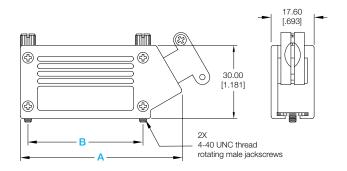
ZINC, DIE CAST ADAPTERS

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 entry, zinc, die cast, EMI/RFI





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	Α	В	Cable C	pening	Optional Cover	Optional Cable	
FANT NUMBER	Size	A	Б	(Min)	(Max)	Plate	Opening Plug*2	
D9000GA0	1	44.00 [1.733]	25.00 [0.984]	3.00 [.118]	11.99 [.472]	A4589-9-0-0 ^{★3}	A4596-1-0-0* ³	
D15000GA0	2	52.30 [2.059]	33.30 [1.311]	3.00 [.118]	11.99 [.472]	A4589-15-0-0* ³	A4596-1-0-0* ³	
D25000GA0	3	66.00 [2.598]	47.00 [1.850]	3.00 [.118]	11.99 [.472]	A4589-25-0-0* ³	A4596-1-0-0* ³	
D37000GA0	4	82.50 [3.248]	63.50 [2.500]	3.00 [.118]	11.99 [.472]	A4589-37-0-0* ³	A4596-1-0-0* ³	

^{*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

For use with code G backshell

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

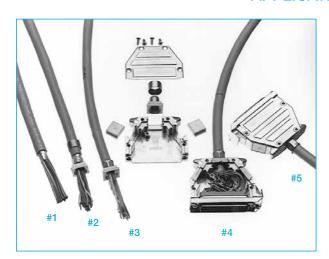
The crimp ferrule system optimizes the transition of the cable shield into the cable adapter in three ways.

- 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.



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

APPLICATION INSTRUCTIONS



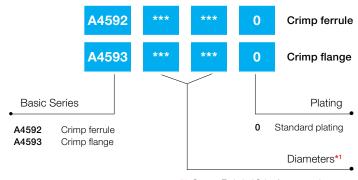
Application of the crimp ferrule system is quite simple.

- **#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 9520-0-0-0 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

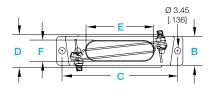


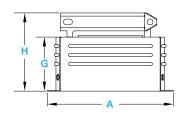
*1 Contact Technical Sales for part number completion which is determined by customer required cable diameters and type.

METAL BACKSHELLS

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

H Backshell, metal, top entry







PART NUMBER	Shell Size	A	В	С	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 _____



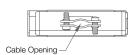
	HARDWARE QUICK REFERENCE OPTIONS									
Backshell	No Hardware	Rotating Jackscrews	Fixed Jackscrews	Quick Disconnect Locking System	Low Profile	Extended Height	Adapter	Cable Opening	EMI / RFI	Page
J	~		~	~				Тор		16
L	~		~	~				Side		16
Y		~						Тор	EMI/RFI	18
Z		~	~					Modular	EMI/RFI	17

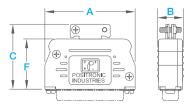
PLASTIC BACKSHELLS

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

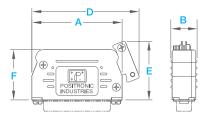






Backshell, plastic, side entry







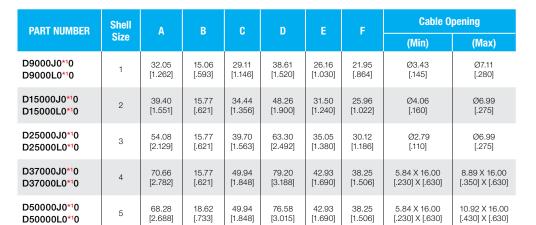
J backshell shown



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

COMPOSITE BACKSHELLS

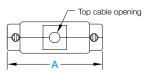
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

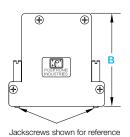
Z*1

Backshell, composite, modular entry, rotating male jackscrews

Z6*1

Backshell, composite, modular entry, rotating polarized jackscrews





Z4*1

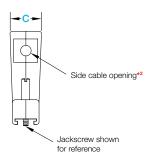
Backshell, composite, modular entry, fixed female jackposts

Z7*1

Backshell, composite, modular entry, rotating female jackposts

Notes

- *1 Illustration is shown for Z backshell. The only difference for Z4, Z6 and Z7 backshells will be jackscrew system.
- \star2 Side entry is not available on shell size 5.





Z backshell shown with rotating male jackscrews



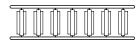
Z4 backshell shown with fixed female jackposts

TYPICAL INSERTS

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



INSERT TREE ASSEMBLY



PART NUMBER	Shell	Α	В	C	Cabl	e Opening
TAITI NOMBER	Size	^			(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]



Z6 backshell shown with male and female rotating jackscrews



Z7 backshell shown with female rotating jackscrews

COMPOSITE BACKSHELLS

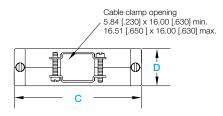
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

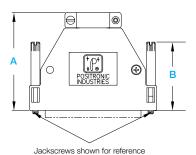
Y (size 50)*1

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

Y6 (size 50)*1

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





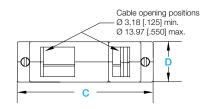
Note *1 Illustrations shown for Y backshell. The only difference for Y6 backshell will be jackscrew system and 'B' dimension.

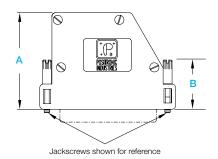
Y (size 104)*1

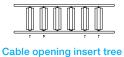
Backshell, composite, size 104, top/side entry, rotating male jackscrews

Y6 (size 104)*1

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







for size 104 backshell



Y for size 50



Y for size 104



Y6 for size 50



Y6 for size 104

Contact Technical Sales for availability of other size backshells

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

JACKSCREW SYSTEM

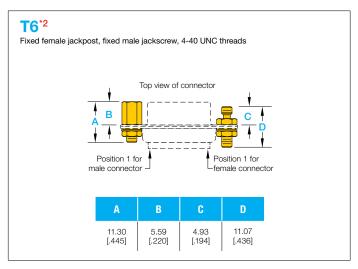
T, T2, T3 or T7 CODE **Description** 11.10 T*3 Fixed female jackposts, 4-40 UNC threads*1 [.437] Fixed female jackposts, 4-40 UNC threads*1, 12.70 T2*3 washer set [.500] Fixed female jackposts, 4-40 UNC threads*1, 20.65 T3*3 [.813] washer set Fixed female jackposts, 4-40 UNC threads 10.92 T7*2 *3 [.430]

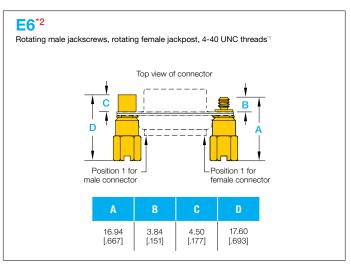
_ ()	CODE	Description	A	В	
A	E*3	Rotating male jackscrews, 4-40 UNC threads, slotted thumbscrews	16.43 [.647]	11.10 [.437]	
B	E3*3	Rotating male jackscrews, 4-40 UNC threads, internal hex, low profile	16.43 [.647]	11.10 [.437]	

CODE	Description	A
E2 ^{*3}	Rotating male jackscrews, 4-40 UNC threads, slotted, low profile	6.10 [.240]
		Rotating male jackscrews, 4-40 UNC threads,

- *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)





B 6.35

[.250]

5.03

[.198]

5.03

[.198]

4.57

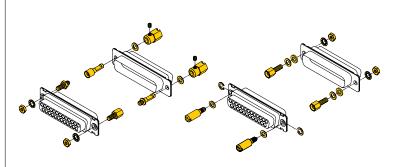
[.180]

- *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.



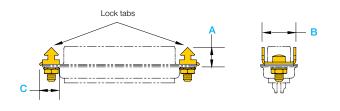
Option	Male Connector	Code (MOS)	Female Connector	Code (MOS)
1	2 male rotating	E *2	2 female fixed	T *2
2	2 female rotating	E6 *2 (-833.7*3)	2 male fixed	T6 *2 (-866.1*3)
3	1 female rotating*1 1 male rotating*1	E6 *2	1 male fixed*1 1 female fixed*1	T6 *2
4*4	1 male rotating*1 1 female rotating*1	E6 *2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

- *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.

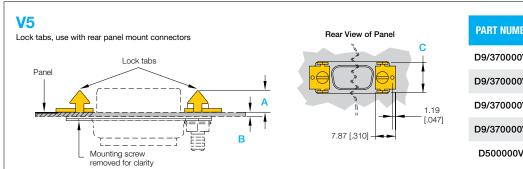
QUICK DISCONNECT LOCKING SYSTEMS

V3

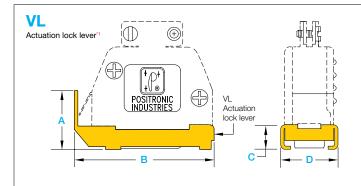
Lock tabs, use with free cable or front panel mount connectors



PART NUMBER	Shell Size	A	В	C
D9/370000V30	1	6.86 [.270]	11.68 [.460]	6.91 [.272]
D9/370000V30	2	6.86 [.270]	11.68 [.460]	6.91 [.272]
D9/370000V30	3	6.86 [.270]	11.68 [.460]	6.91 [.272]
D9/370000V30	4	6.86 [.270]	11.68 [.460]	6.91 [.272]
D500000V30	5	6.86 [.270]	14.73 [.580]	6.91 [.272]

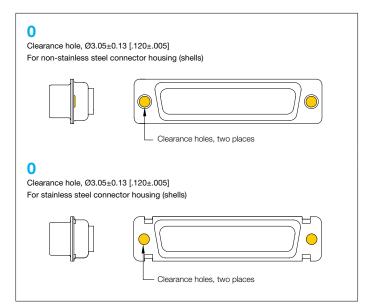


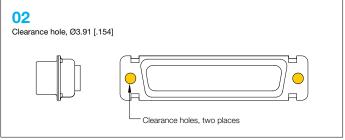
PART NUMBER	Shell Size	A	B (Max)	C
D9/370000V50	1	4.59 [.181]	1.57 [.062]	11.81 [.465]
D9/370000V50	2	4.59 [.181]	1.57 [.062]	11.81 [.465]
D9/370000V50	3	4.59 [.181]	1.57 [.062]	11.81 [.465]
D9/370000V50	4	4.59 [.181]	1.57 [.062]	11.81 [.465]
D500000V50	5	4.59 [.181]	1.57 [.062]	14.86 [.585]

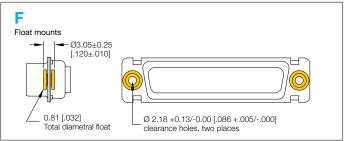


*1 May be used with front or back mounted locking tabs, see V3 and V5.									
PART NUMBER	Shell Size	A	A tolerances (Upper and lower)	В	C	D (Max)			
D90000VL0	1	14.73 [.580]	14.73 +1.77/38 [.580 +.070/015]	37.08 [1.460]	6.53 [.257]	15.04 [.592]			
D150000VL0	2	14.73 [.580]	14.73 +1.77/38 [.580 +.070/015]	44.96 [1.770]	6.53 [.257]	15.04 [.592]			
D250000VL0	3	14.73 [.580]	14.73 +1.77/38 [.580 +.070/015]	59.94 [2.360]	6.53 [.257]	15.04 [.592]			
D370000VL0	4	16.13 [.635]	16.13 +.50/38 [.580 +.020/015]	76.58 [3.015]	6.53 [.257]	15.04 [.592]			
D500000VL0	5	16.13 [.635]	16.13 +.50/38 [.580 +.020/015]	73.66 [2.900]	6.78 [.267]	17.91 [.705]			

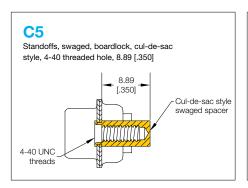
CLEARANCE HOLE / FLOAT MOUNTS

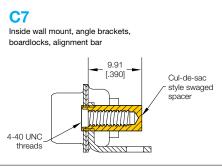


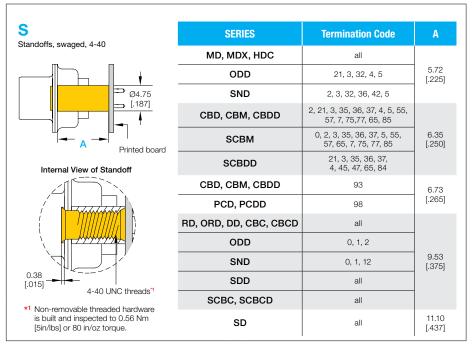


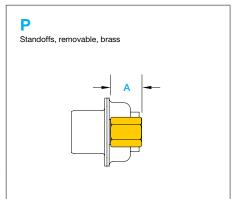


SWAGED SPACERS



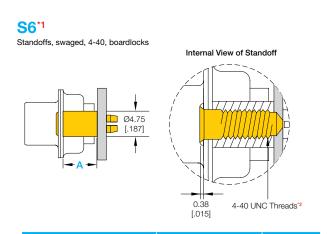






SERIES	Termination Code	A	
MD, MDX, ED, HDC	all	5.72 [.225]	
ODD	21, 3, 32, 4, 5		
CBD, CBDD, CBM	all	6.35 [.250]	
RD, ORD, DD, CBC, CBCD	all	9.53 [.375]	
ODD	0, 1, 2		
SD all		11.10 [.437]	

SWAGED SPACER WITH BOARDLOCK

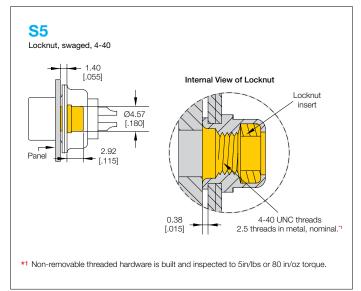


SERIES	Termination Code	А	
MD, MDX, HDC	3, 32, 33, 36		
ODD	3, 32	5.72 [.225]	
SND	3, 32, 36		
CBD, CBM, CBDD	3, 35, 36, 37, 65		
SCBM	3, 35, 36, 37, 65	6.35 [.250]	
SCBDD	3, 35, 36, 37, 65		
DD	3, 32	9.53 [.375]	
SDD	3, 32		
SD	3, 32	11.10 [.437]	

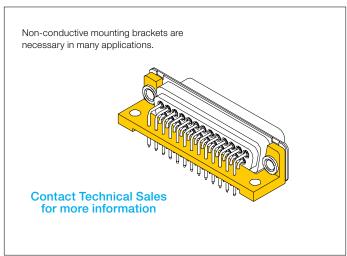
- *1 Printed board mounting hole to be Ø3.12±0.08 [.123±.003] for use with
- *2 Non-removable threaded hardware is built and inspected to 5in/lbs or 80 in/oz torque.

S7*1 Standoffs, swaged, 4-40, boardlocks, for use with F ferrite inductor Internal View of Standoff Ø4.75 [.187] 4-40 UNC threads*2 [.015] **Connector Series Termination Code** MD, MDX, HDC, ODD 32, 33 9.53 [.375] ED, HDC 36 13.08 DD 32, 33 [.515]

SWAGED LOCKNUT

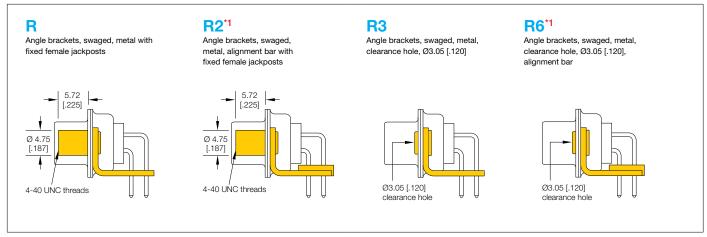


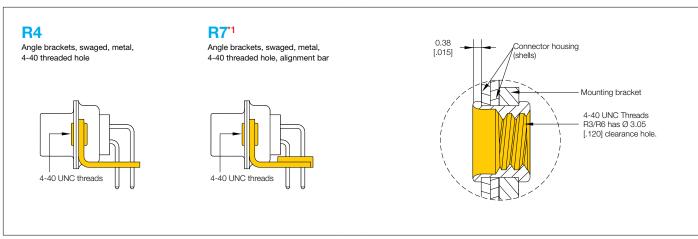
SWAGED PLASTIC MOUNTING BRACKETS WITH ALIGNMENT BAR

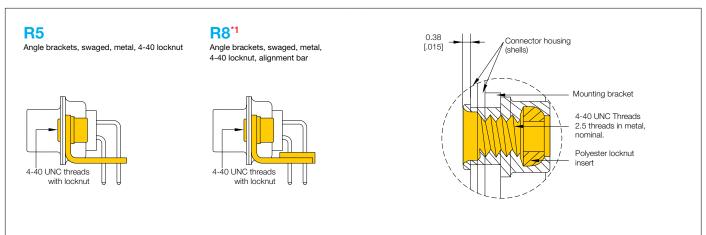


connectpositronic.com

ANGLE BRACKET*1

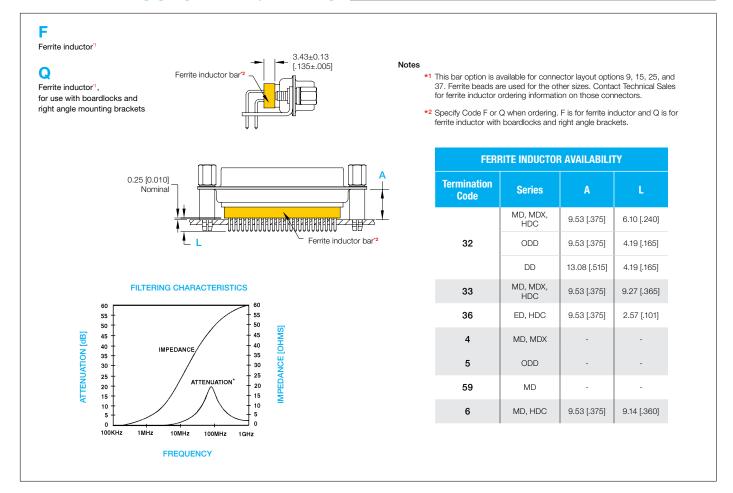






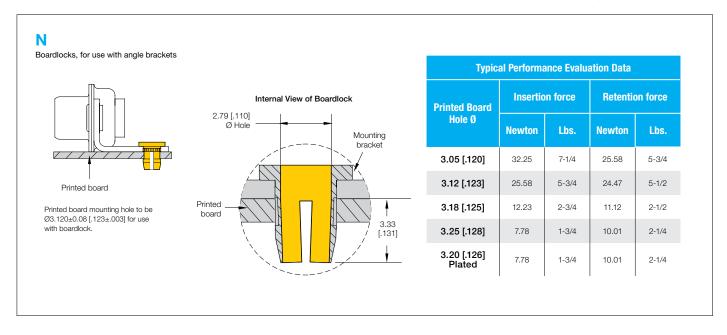
^{*1} Contact alignment bar is supplied with R2, R6, R7 and R8 options only.

FERRITE INDUCTOR BAR / BEADS



BOARDLOCKS

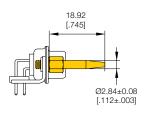
For use with code R,R2,R3,R4,R5,R6,R7,and R8



BLIND MATE SYSTEM

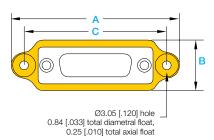
Blind mating guide pins Float mounting plate (MOS -759.0)

To obtain blind mating guide pins, add the suffix '-759.0' to the end of the part number.



(MOS -759.1)

To obtain float mounting plate, add the suffix '-759.1' to the end of the part number.



Contact Technical Sales for additional ordering information

Shell Size	A (nominal)	В	С	
1	49.02 [1.93]	17.20 [0.677]	40.28 [1.586]	
2	57.35 [2.258]	17.20 [0.677]	48.62 [1.914]	
3	71.25 [2.805]	17.20 [0.677]	62.51 [2.461]	
4	87.53 [3.446]	17.20 [0.677]	78.79 [3.102]	
5	85.14 [3.352]	20.04 [0.789]	76.40 [3.008]	
6	87.53 [3.446]	21.59 [.850]	78.79 [3.102]	

The use of blind mating hardware on D-Sub connectors can create functional challenges within the application and therefore requires additional mechanical design rigor. Be aware that system tolerances must be exact and mating force allowances may need to be higher than expected. Customers should qualify the use of this option in their particular application.

FLARED CONNECTOR HOUSING (SHELL)

Flared MOS-1503.33

Flared connector housing



Flared connector housings provide a more generous misalignment characteristics than standard D-subminiature connector housings.



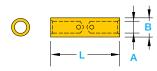
Contact Technical Sales for part numbers and detail information.

Standard

Connector housing for reference



IN-LINE CRIMP SPLICE



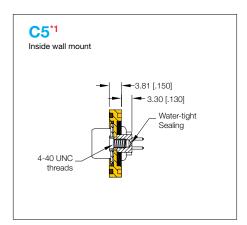
Contact Technical Sales for crimp tool part number

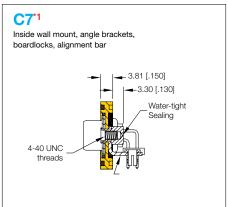
PART NUMBER	WIRE SIZE AWG / [mm2]	L	A	В
PSK43636-*1	20-26 [0.5/0.12]	12.70 [.500]	1.14 [.045]	1.93 [.076]
PSK43637-1	16-20 [1.5/0.5]	14.61 [.575]	1.68 [.066]	2.57 [.101]
PSK43638-*1	12-18 [4.0-1.0]	14.66 [.577]	2.46 [.097]	3.81 [.150]

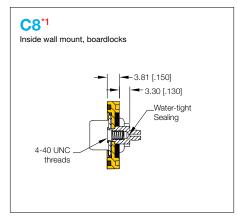
*1 To order crimp splice with insulating sleeve, add '-W' suffix to part number. To order without sleeve, add '-N' suffix.

CUL-DE-SAC STYLE INSIDE WALL MOUNT

For use with code WD and WDD

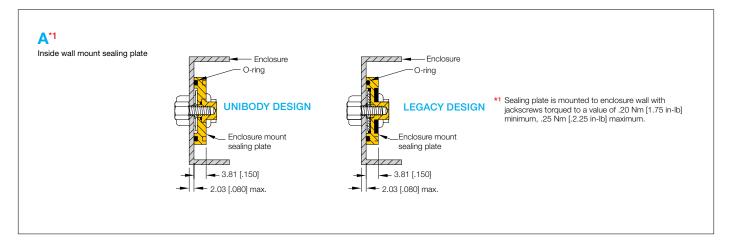






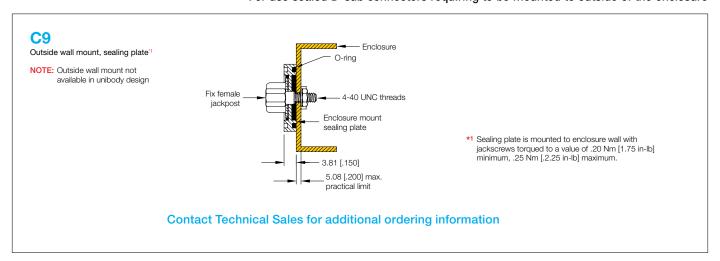
ENCLOSURE WALL MOUNT SEALING PLATE

For use with code WD and WDD



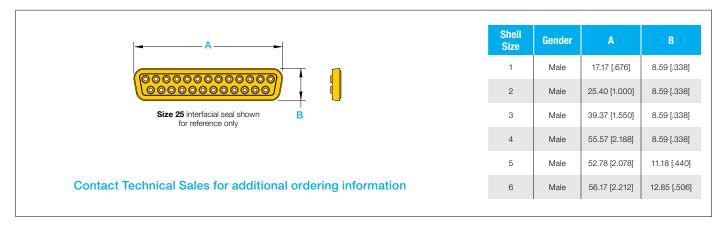
OUTSIDE WALL ENCLOSURE MOUNT

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



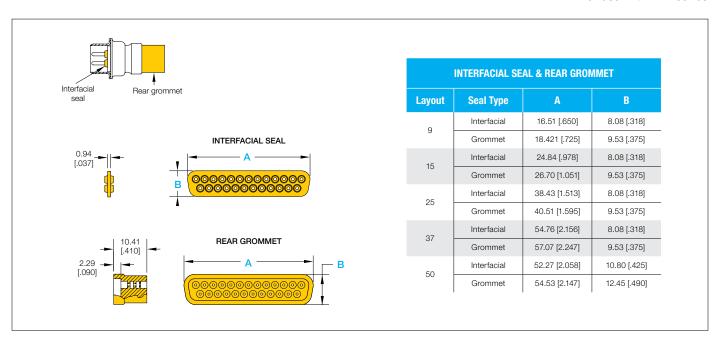
INTERFACIAL SEAL

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



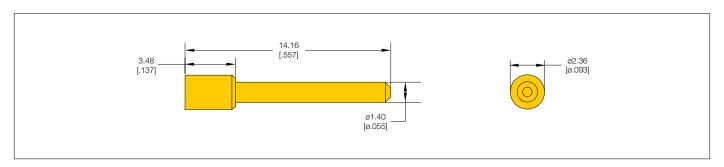
INTERFACIAL SEAL / REAR GROMMENTS

For use with EVD series

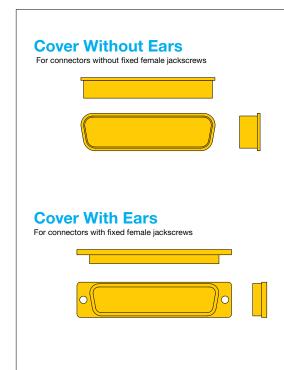


SEALING PLUGS

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



PROTECTIVE COVER _

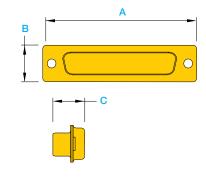


Shell Size		REPLACEMENT PART NUMBERS			
	Gender	Conductive Without Ears	Static Dissipative Without Ears	With Ears	
	Male	A4931-9-0-0	A4931-9-1-0	A4931-9-100-0	
1	Female	A4932-9-0-0	A4932-9-1-0	A4932-9-100-0	
0	Male	A4931-15-0-0	A4931-15-1-0	A4931-15-100-0	
2	Female	A4932-15-0-0	A4932-15-1-0	A4932-15-100-0	
3	Male	A4931-25-0-0	A4931-25-1-0	A4931-25-100-0	
	Female	A4932-25-0-0	A4932-25-1-0	A4932-25-100-0	
4	Male	A4931-37-0-0	A4931-37-1-0	A4931-37-100-0	
	Female	A4932-37-0-0	A4932-37-1-0	A4932-37-100-0	
5	Male	A4931-50-0-0	A4931-50-1-0	A4931-50-100-0	
	Female	A4932-50-0-0	A4932-50-1-0	A4932-50-100-0	
6	Male			A4931-16-100-0	
	Female			A4932-16-100-0	

EMI/RFI PROTECTIVE COVER

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

EMI/RFI Cover

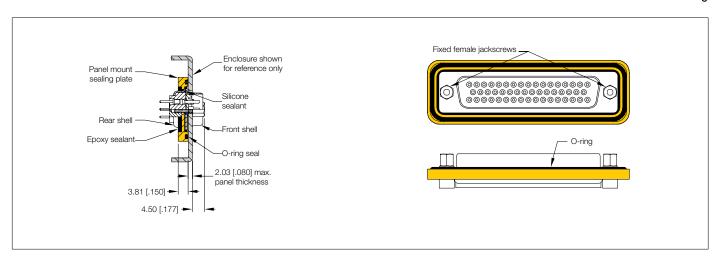


Shell Size	PART NUMBER	Mates To Gender	A ±0.38 [.015]	B ±0.38 [.015]	C ±0.25 [.010]
1	PSK633-9MG*1	Female	30.81 [1.213]	12.55 [.494]	10.72 [.422]
'	PSK633-9FG*1	Male			10.90 [.429]
2	PSK633-15MG*1	Female	39.14 [1.541] 12.5	12.55 [.494]	10.72 [.422]
۷	PSK633-15FG* ¹	Male		12.00 [.434]	10.90 [.429]
3	PSK633-25MG*1	Female	53.04 [2.088]	12.55 [.494]	10.82 [.426]
3	PSK633-25FG*1	Male		12.00 [.494]	10.90 [.429]
4	PSK633-37MG*1	Female	69.32 [2.729]	12.55 [.494]	10.82 [.426]
7	PSK633-37FG*1	Male	00.02 [2.1728]		10.90 [.429]
5	PSK633-50MG*1	Female	66.93 [2.635]	15.37 [.605]	10.82 [.426]
5	PSK633-50FG*1	Male			10.90 [.429]
6	PSK633-104MG*1	Female	69.32 [2.729]	16.97 [.668]	10.82 [.426]
	PSK633-104FG*1	Male			10.90 [.429]

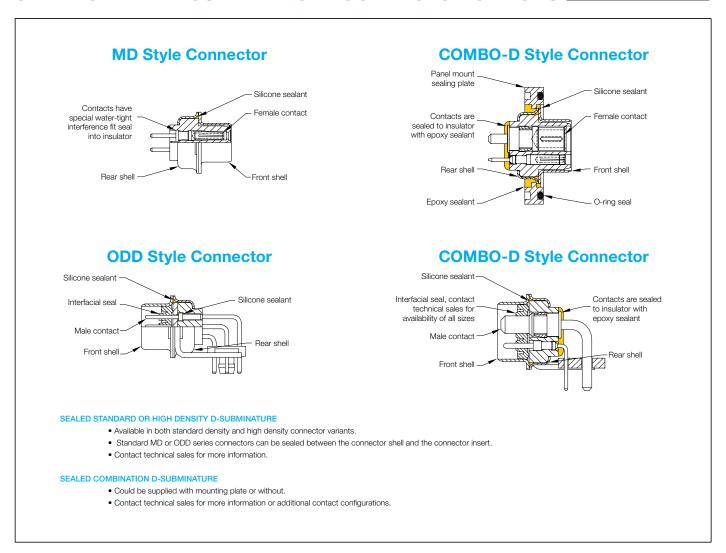
^{*1} To order protective cover with code 'E2' rotating male screw locks, insert "N" into the last digit of part number. Omit this digit if thread locks are not required.

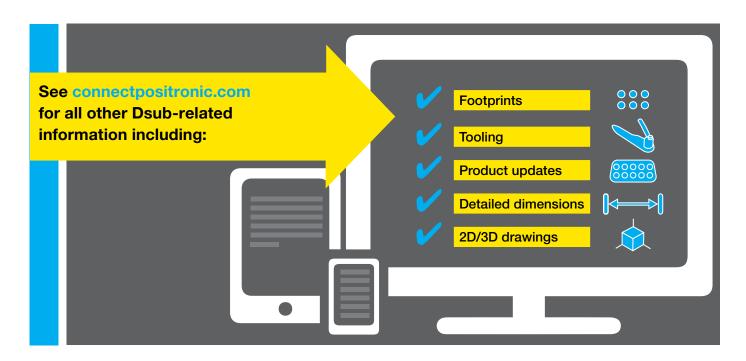
MACHINED ALUMINUM MOUNTING PLATE

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 millimeters [inches]. All dimensions are subject to change. Product pictures may not be identical in appearance to actual production parts.

Information in this catalog is proprietary to Positronic and its subsidiaries. Positronic believes the data contained herein to be reliable. Since the technical information is given free of charge, the user employs such information at his own discretion and risk. Positronic assumes no responsibility for results obtained or damages incurred from use of such information in whole or in part.

The following trademarks are owned by Positronic Industries, Inc.: Positronic Industries, Inc.@, Positronic®, Connector Excellence®, P+ logo®, PosiBand®, PosiShop®, Optik-D™, and The Science of Certainty®. The color blue as it appears on various connectors is a trademark of Positronic Industries, Inc., Registered in U.S. Patent and Trademark Office.

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

#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

Federal Supply Code for Manufacturers

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

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

Positronic has local sales representation all over the world. For the nearest sales office visit www.connectpositronic.com/sales

This document is subject to change without notice. Visit our website for the latest updates at www.connectpositronic.com/en/catalogs/

connectpositronic.com THE SCIENCE OF CERTAINTY