

ACCESSORIES

FOR USE WITH D-SUB CONNECTORS



Positronic®
an Amphenol company

THE SCIENCE OF **CERTAINTY®**

M016 Rev B5 26/07



Positronic®

an Amphenol company

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

**THE SCIENCE
OF CERTAINTY®**

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BACKSHELLS QUICK REFERENCE



TECHNICAL 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
H	steel	zinc	steel, zinc plate	steel, zinc plate	similar to SAE AS85049/48	15
H	brass	gold	brass, gold plate	brass, gold plate	similar to SAE AS85049/48	15
J	glass-filled polyester, UL94 V-0		steel, nickel plate		top entry, for vibration applications	17
L	glass-filled polyester, UL94 V-0		steel, nickel plate		side entry, for vibration applications	17
Y	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

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

LIGHTWEIGHT ALUMINUM BACKSHELL, QUICK REFERENCE



* See chart below for 'Material & Finish Options'

MATERIAL & FINISH OPTIONS								
Code	Backshell & Cable Clamp Finish	Hardware Type						Hardware Material & Finish
		T2	E	E6	E7	VL	V3	
N	Nickel	✓	✓	✓	✓	✓	✓	Steel with nickel plate

OPTIONAL MATERIAL & FINISHES								
A	Anodize	✓	✓	✓	✓	✓	✓	Steel with nickel plate
B	Anodize	✓	✓	✓	✓			Brass with zinc plate
C	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.

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LIGHTWEIGHT ALUMINUM BACKSHELLS

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

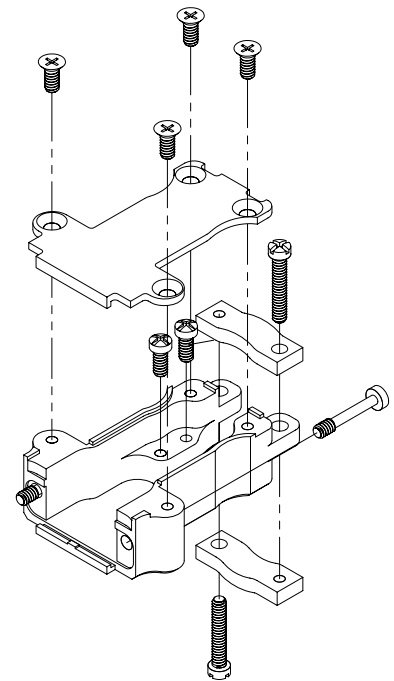
- Appropriate for high density wire bundles using twisted, shielded pairs
- Cable clamps can be "spooned" to provide strain relief for small wire bundle
- Wide form factor allows the user to easily meet bend radius requirements

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 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

ENVIRONMENTAL

Operating Temperature -55 to 125°C

WEIGHT CHART ^{*1}

Backshell Size	D*000ANVL Ounces [grams]	D*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.

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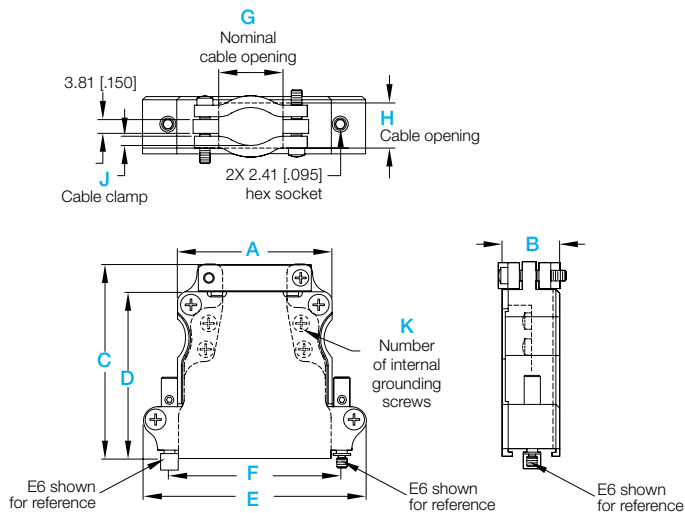
LIGHTWEIGHT ALUMINUM BACKSHELLS

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

For use with code E, E6 or E7

A

Backshell, clamped, aluminum, top entry



A backshell shown with E option



A backshell shown with E6 option



A backshell shown with E7 option

PART NUMBER	Connector / Contact Arrangement Compatibility		Shell Size	A	B	C	D	E	F	G	H		J	K
											(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.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
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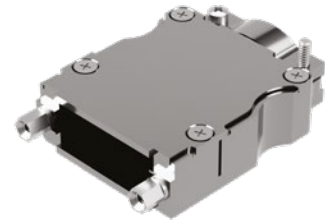
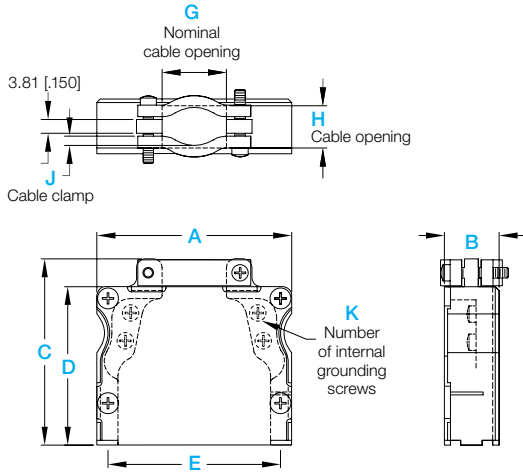
LIGHTWEIGHT ALUMINUM BACKSHELLS

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

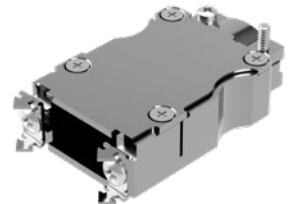
For use with code T2, VL or V3

A

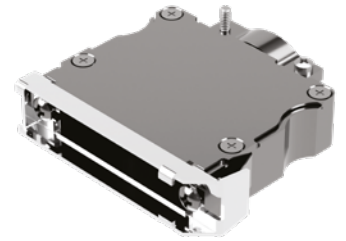
Backshell, clamped, aluminum, top entry



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 / Contact Arrangement Compatibility		Shell Size	A	B	C	D	E	G	H		J	K
										(Min)	(Max)		
D9000AN* ¹ T20* ² D9000AN* ¹ V30 D9000AN* ¹ VL0	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* ¹ T20* ² D15000AN* ¹ V30 D15000AN* ¹ VL0	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* ¹ T20* ² D25000AN* ¹ V30 D25000AN* ¹ VL0	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* ¹ T20* ² D37000AN* ¹ V30 D37000AN* ¹ VL0	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* ¹ T20* ² D50000AN* ¹ V30 D50000AN* ¹ VL0	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* ¹ T20* 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.

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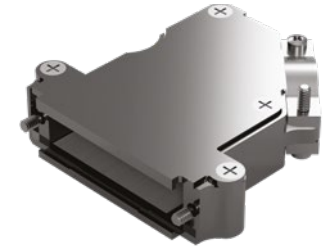
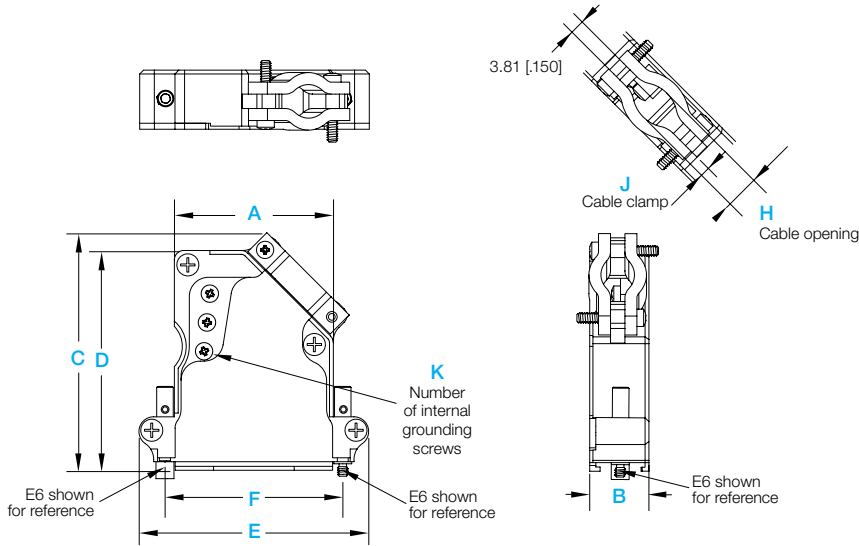
LIGHTWEIGHT ALUMINUM BACKSHELLS

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

For use with code E, E6 or E7

AS

Backshell, clamped, aluminum, 45° side entry



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 Size	A	B	C	D	E	F	G	H		J	K
											(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.

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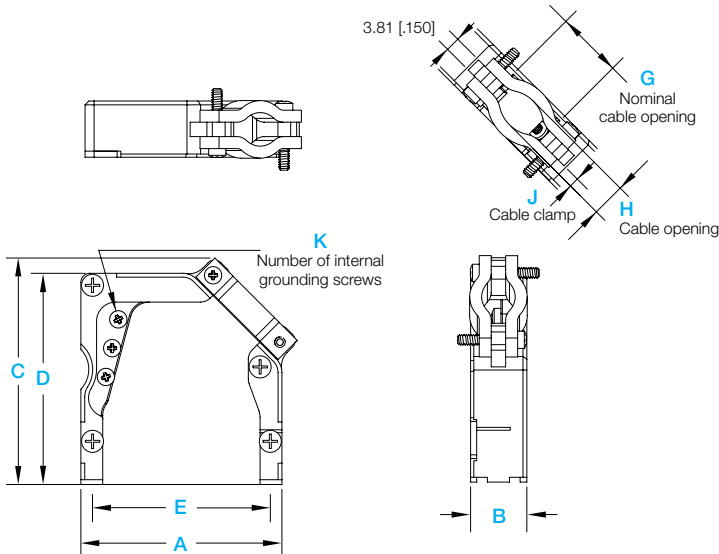
LIGHTWEIGHT ALUMINUM BACKSHELLS

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

For use with code T2, VL or V3

AS

Backshell, clamped, aluminum, 45° side entry



AS backshell shown with T2 option



AS backshell shown with V3* option

*see page 23 for code 'V3' information



AS backshell shown with VL* option

*see page 23 for code 'VL' information

PART NUMBER	Connector / Contact Arrangement Compatibility		Shell Size	A	B	C ±0.64 [.025]	D	E	G	H		J	K
										(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.

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ALL DIMENSIONS ARE SUBJECT TO CHANGE.

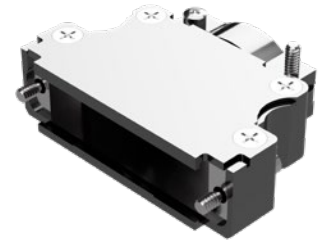
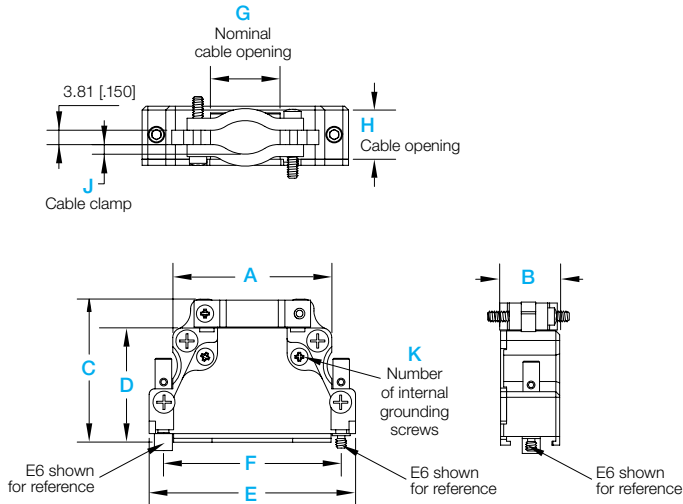
LIGHTWEIGHT ALUMINUM BACKSHELLS

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

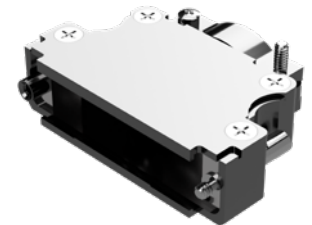
For use with code E, E6 or E7

AL

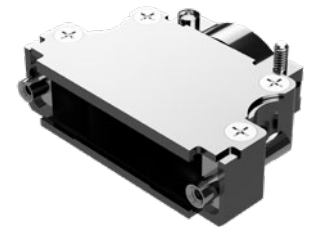
Backshell, clamped, aluminum, top entry, low profile



AL backshell shown with E option



AL backshell shown with E6 option



AL backshell shown with E7 option

PART NUMBER	Connector / Contact Arrangement Compatibility	Shell Size	A	B	C	D	E	F	G	H		J	K
										(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* ^{*1} E0* ^{*2} D15000ALN* ^{*1} E60* ^{*2} D15000ALN* ^{*1} E70* ^{*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* ^{*1} E0* ^{*2} D25000ALN* ^{*1} E60* ^{*2} D25000ALN* ^{*1} E70* ^{*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* ^{*1} E0* ^{*2} D37000ALN* ^{*1} E60* ^{*2} D37000ALN* ^{*1} E70* ^{*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* ^{*1} E0* ^{*2} D50000ALN* ^{*1} E60* ^{*2} D50000ALN* ^{*1} E70* ^{*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.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

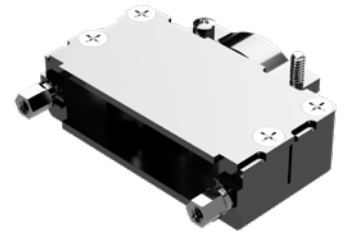
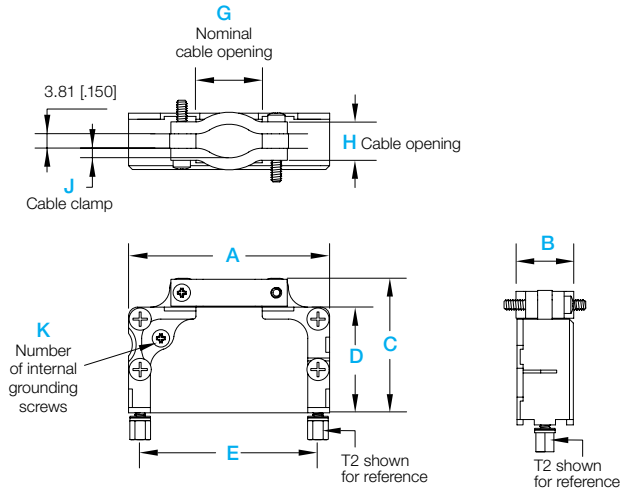
LIGHTWEIGHT ALUMINUM BACKSHELLS

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

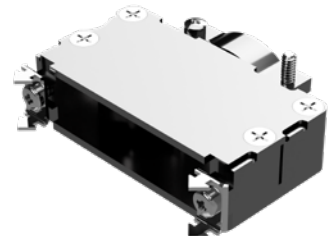
For use with code T2, V3 or VL

AL

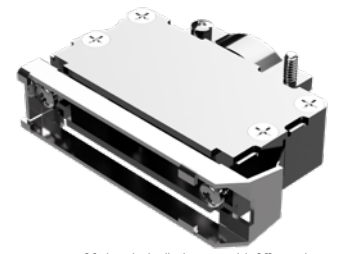
Backshell, clamped, aluminum, top entry, low profile



AL backshell shown with T2 option



AL backshell shown with V3 option



AL backshell shown with VL option

PART NUMBER	Connector / Contact Arrangement Compatibility	Shell Size	A	B	C	D	E	G	H		J	K
									(Min)	(Max)		
D9000ALN* ¹ T20* ² D9000ALN* ¹ V30 D9000ALN* ¹ VL0	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* ¹ T20* ² D15000ALN* ¹ V30 D15000ALN* ¹ VL0	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* ¹ T20* ² D25000ALN* ¹ V30 D25000ALN* ¹ VL0	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* ¹ T20* ² D37000ALN* ¹ V30 D37000ALN* ¹ VL0	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* ¹ T20* ² D50000ALN* ¹ V30 D50000ALN* ¹ VL0	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* ¹ VL0	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

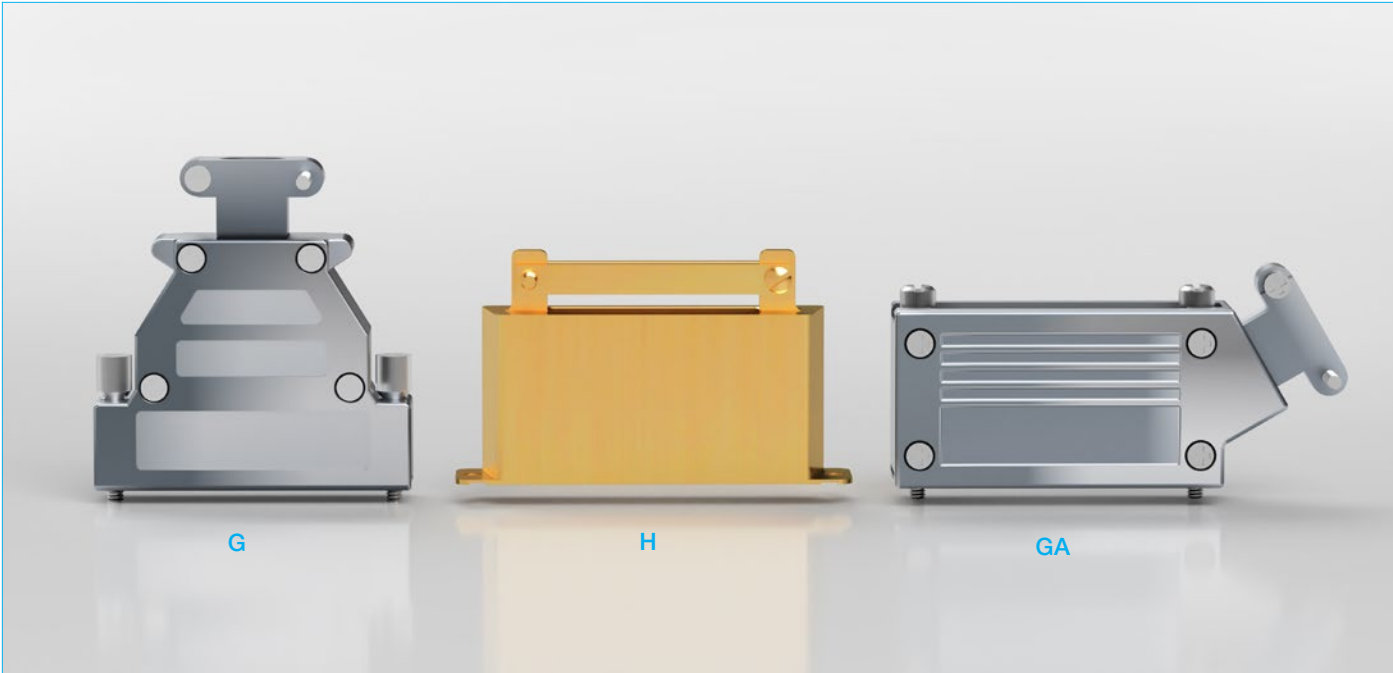
*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from chart on page 2.

*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. D90000ALNT2G)

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

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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	✓	✓	✓	✓	✓	✓	✓	Modular	EMI/RFI	11-14
H	✓	✓	✓	✓	✓			Top		15

DIMENSIONS ARE IN MILLIMETERS [INCHES].
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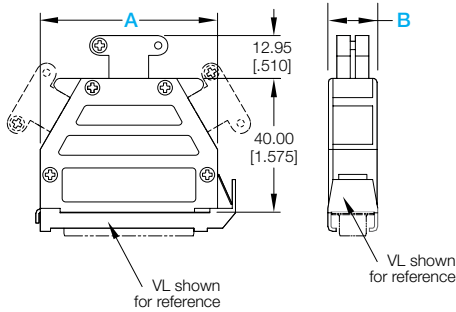
ZINC, DIE CAST BACKSHELLS

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

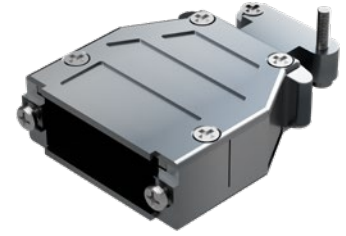
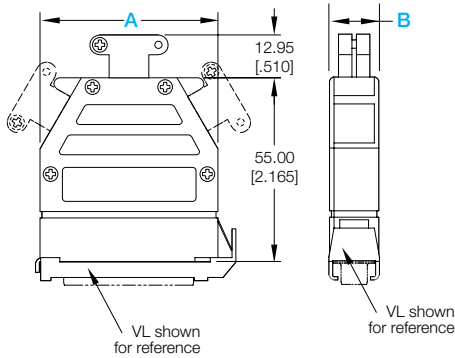
G (Low Profile)

Backshell, clamped, zinc, modular entry, low profile



G (Extended)

Backshell, clamped, zinc, modular entry, extended height



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 Size	Backshell Height		A	B	Cable Entry Option	Cable Opening	
		Low Profile	Extended				(Min)	(Max)
D9000G00 D9000GVL0	1	Low Profile		32.00 [1.260]	14.60 [.575]	2 Side*2	3.00 [.118]	11.99 [.472]
D9000G00-1023.2 D9000GVL0-1023.0			Extended					
D15000G00 D15000GVL0	2	Low Profile		39.30 [1.547]	14.60 [.575]	1 Top, 2 Side*3	3.00 [.118]	11.99 [.472]
D15000G00-1023.2 D15000GVL0-1023.0			Extended					
D25000G00 D25000GVL0	3	Low Profile		53.20 [2.094]	14.60 [.575]	1 Top, 2 Side*3	3.00 [.118]	11.99 [.472]
D25000G00-1023.2 D25000GVL0-1023.0			Extended					
D37000G00 D37000GVL0	4	Low Profile		69.50 [2.736]	14.60 [.575]	1 Top, 2 Side*3	3.00 [.118]	11.99 [.472]
D37000G00-1023.2 D37000GVL0-1023.0			Extended					
D50000G00 D50000GVL0	5	Low Profile		67.00 [2.638]	17.90 [.705]	1 Top, 2 Side*3	5.00 [.197]	14.00 [.551]
D50000G00-1023.2 D50000GVL0-1023.0			Extended					

*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.



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

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

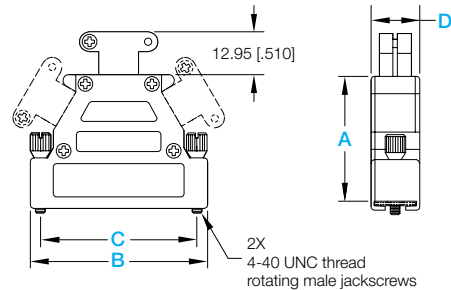
ZINC, DIE CAST BACKSHELLS

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

For use with code E

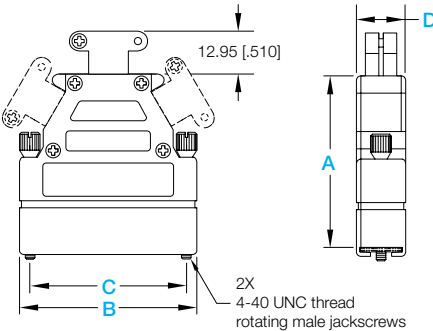
G (Low Profile)

Backshell, clamped, zinc, modular entry, low profile



G (Extended)

Backshell, clamped, zinc, modular entry, extended height



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 entry 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.



G backshell 'low profile' shown with E option



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

PART NUMBER	Shell Size	Backshell Height		A	B	C	D	Cable Entry Option	Cable Opening	
		Low Profile	Extended						(Min)	(Max)
D9000GE0	1	Low Profile	Extended*	35.50 [1.398]	31.00 [1.220]	25.00 [.984]	14.80 [.582]	1 Top	3.00 [.118]	11.99 [.472]
D9000GE0-1023.5				50.50 [1.988]				1 Side		
D9000GE0-1023.5	2	Low Profile	Extended*	40.00 [1.575]	39.40 [1.551]	33.30 [1.311]	14.80 [.582]	1 Top, 1 Side*	3.00 [.118]	11.99 [.472]
D15000GE0				55.00 [2.165]				1 Side*		
D15000GE0-1023.5	3	Low Profile	Extended*	40.00 [1.575]	53.20 [2.094]	47.00 [1.850]	14.80 [.582]	1 Top, 2 Side*	3.00 [.118]	11.99 [.472]
D25000GE0				55.00 [2.165]				1 Top, 2 Side*		
D25000GE0-1023.5	4	Low Profile	Extended*	40.00 [1.575]	69.50 [2.736]	63.50 [2.500]	14.80 [.582]	1 Top, 2 Side*	3.00 [.118]	11.99 [.472]
D37000GE0				55.00 [2.165]				1 Top, 2 Side*		
D37000GE0-1023.5	5	Low Profile	Extended*	42.00 [1.654]	67.00 [2.638]	61.10 [2.406]	17.60 [.692]	1 Top, 2 Side*	5.00 [.197]	14.00 [.551]
D50000GE0				57.00 [2.244]				1 Top, 2 Side*		
D50000GE0-1023.5	6	Low Profile	Extended*	39.62 [1.560]	72.01 [2.835]	63.50 [2.500]	19.40 [.764]	1 Top, 2 side*	5.00 [.197]	14.00 [.551]
D104000GE0								1 Top, 2 side*		

*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.

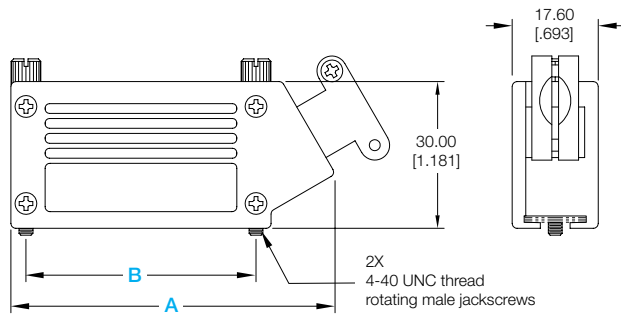
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

ZINC, DIE CAST ADAPTERS

For use with code G backshell

GA (Adapter)

Backshell adapter, clamped, zinc, 45° side entry



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 entry is provided for this application.
- If no connector is inserted into the rear side of the adapter backshell, the opening can be closed with an 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 Size	A	B	Cable Opening		Optional Cover Plate	Optional Cable Opening Plug ^{*2}
				(Min)	(Max)		
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.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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.

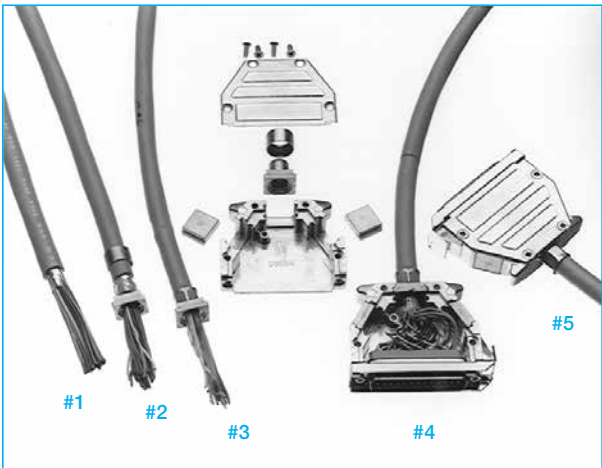
The crimp ferrule system optimizes the transition of the cable shield into the cable adapter in three ways.

- 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 entry 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



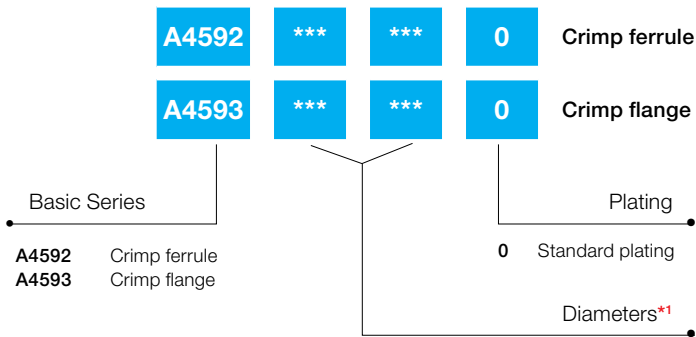
Application of the crimp ferrule system is quite simple.

- #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.

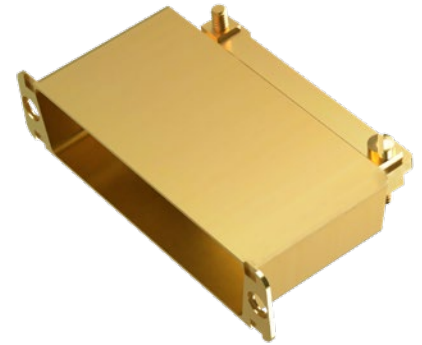
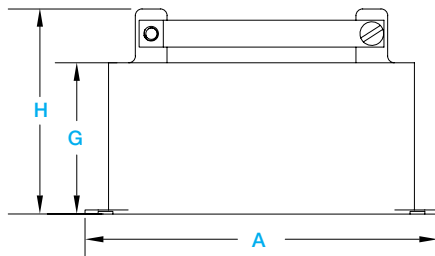
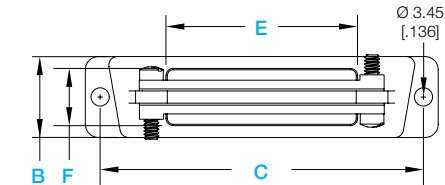
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

METAL BACKSHELLS

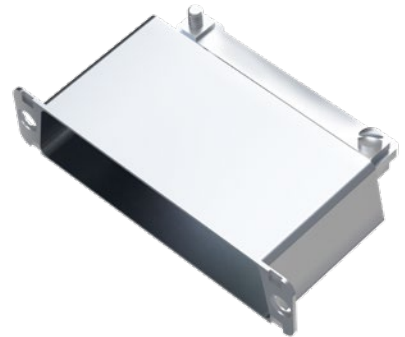
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

H

Backshell, clamped, steel or brass, top entry



H Brass backshell with gold plating shown



H Steel backshell with zinc plating shown

PART NUMBER	Shell Size	A	B	C	E	F	G	H (Max)
D15000H00	2	38.89 [1.531]	12.47 [0.491]	33.32 [1.312]	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]	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]	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]	35.69 [1.405]	10.31 [.406]	28.58 [1.125]	42.09 [1.657]

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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	✓		✓	✓				Top		17
L	✓		✓	✓				Side		17
Y		✓						Top	EMI/RFI	19
Z		✓	✓					Modular	EMI/RFI	18

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

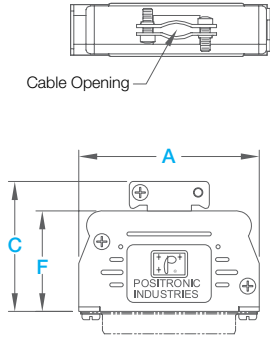
PLASTIC BACKSHELLS

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

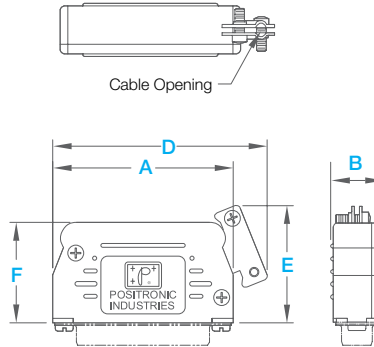
J

Backshell, clamped, plastic, top entry



L

Backshell, clamped, plastic, 45° side entry



J backshell shown



J backshell shown with **V3*** option
*see page 23 for code 'V3' information



J backshell shown with **V5** option
*see page 23 for code 'V5' information



J backshell shown with **VL** option
*see page 23 for code 'VL' information



L backshell shown

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

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

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

COMPOSITE BACKSHELLS

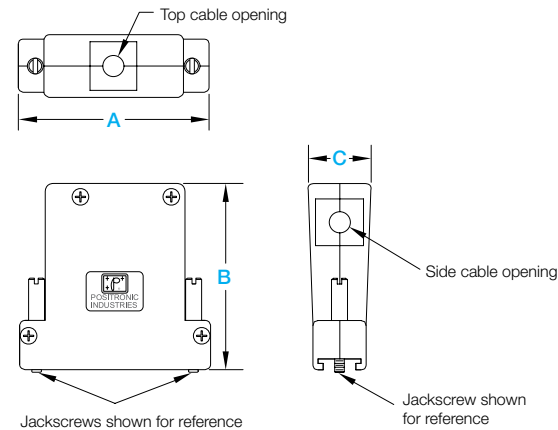
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

Z

Backshell, composite, modular entry,
rotating male jackscrews

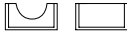
Z6

Backshell, composite, modular entry,
rotating polarized jackscrews

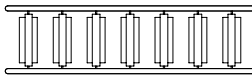


TYPICAL INSERTS

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



INSERT TREE ASSEMBLY



PART NUMBER	Shell Size	A	B	C	Cable Opening	
					(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]

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



Z backshell shown with
rotating male jackscrews



Z4 backshell shown with
fixed female jackscrews



Z6 backshell shown with
male and female rotating jackscrews



Z7 backshell shown with
female rotating jackscrews

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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)

Backshell, clamped, composite, top entry, rotating male jackscrews

Y6 (size 50)

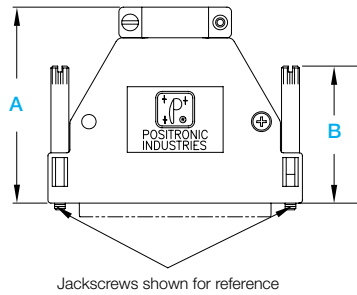
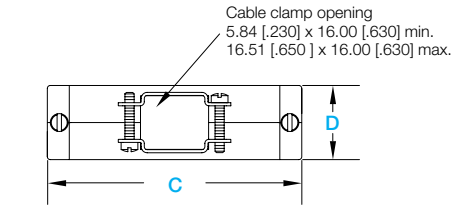
Backshell, clamped, composite, top entry, polarized jackscrews

Y (size 104)

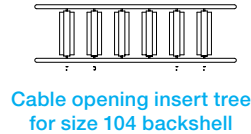
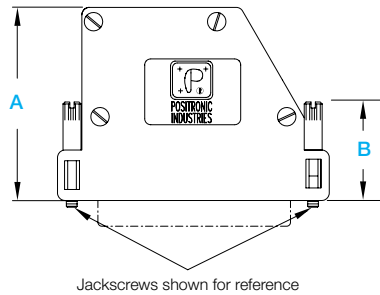
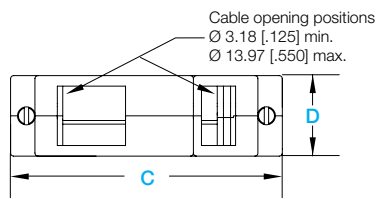
Backshell, clamped, composite, top or 45° side entry, rotating male jackscrews

Y6 (size 104)

Backshell, clamped, composite, top or 45° side entry, polarized jackscrews



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



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

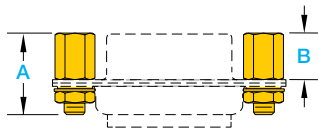
PART NUMBER	Shell Size	A	B	C	D
D50000Y00	5	51.94 [2.045]	38.02 [1.497]	67.44 [2.655]	19.66 [.774]
D50000Y600			30.08 [1.200] max.		
D104000Y00	6	51.08 [2.011]	26.04 [1.025]	71.88 [2.830]	21.29 [.838]
D104000Y600			25.04 [.986]		

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

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

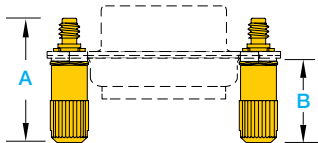
JACKSCREW SYSTEM

T, T2, T3 or T7



CODE	Description	A	B
T ^{*3}	Fixed female jackposts, 4-40 UNC threads ^{*1}	11.10 [.437]	6.35 [.250]
T2 ^{*3 *4}	Fixed female jackposts, 4-40 UNC threads ^{*1} , washer set	12.70 [.500]	5.03 [.198]
T3 ^{*3}	Fixed female jackposts, 4-40 UNC threads ^{*1} , washer set	20.65 [.813]	5.03 [.198]
T7 ^{*2 *3}	Fixed female jackposts, 4-40 UNC threads	10.92 [.430]	4.57 [.180]

E or E3



CODE	Description	A	B
E ^{*3}	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]

E2



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

^{*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.

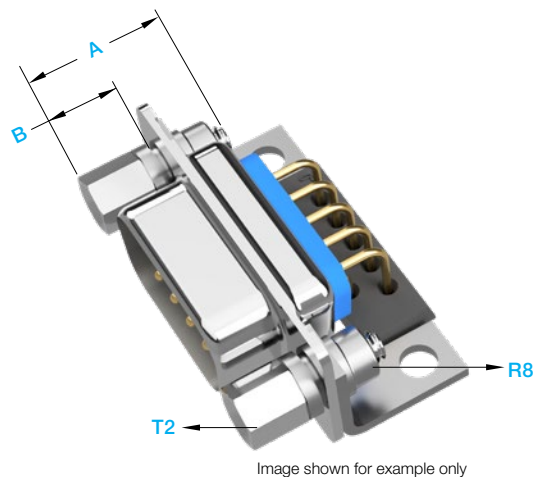
^{*2} T7 jackscrews supplied on connectors in combination with other accessories may differ dimensionally, contact Technical Sales for more information.

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

^{*4} T2 Washer set consists of two washers, one 0.41 [.016] and the other 0.76 [.030], for use between the connector shell and jackpost flange. Washer addition adjusts the B dimension to meet customer panel thickness requirements.

JACKSCREW SYSTEM WITH MOUNTING OPTIONS

Jackscrew Systems <i>For details, see page 20, 22</i>	Mounting Options <i>For details, see page 24 to 26</i>	Overall Length 'A'	Mating Side Length 'B'	Gender
E	0 / R3 / R6 / N6	16.43 [.647]	11.10 [.437]	Male
E2	0 / R3 / R6 / N6	8.13 [.320]	2.79 [.110]	Male
E3	0 / R3 / R6 / N6	16.43 [.647]	3.40 [.134]	Male
E6	0 / R3 / R6 / N6	13.44 [.529]	3.84 [.151]	Male
E6	0 / R3 / R6 / N6	14.10 [.555]	4.50 [.177]	Female
T	0 / B / B10 / B3 / B9 / C5 / C6 / C7 / C8 / N7 / R4 / R7 / S6 / S7	.437 [11.10]	.250 [6.35]	Female
T	B7 / B8 / N6 / N8 / R3 / R5 / R6 / R8 / S5	.510 [12.95]	.250 [6.35]	Female
T	P / S	.384 [9.75]	.250 [6.35]	Female
T2	0 / B / B10 / B3 / B7 / B8 / B9 / C5 / C6 / C7 / N6 / N7 / N8 / P2 / R3 / R4 / R5 / R6 / R7 / R8 / S5	12.70 [.500]	5.03 [.198]	Female
T2	P / S / S2	9.60 [.378]	5.03 [.198]	Female
T2	S6 / S7	11.38 [.448]	5.03 [.198]	Female
T3	Any	20.65 [.813]	5.03 [.198]	Female
T4	Any	11.30 [.445]	5.59 [.220]	Female
T5	S6/S7	11.38 [.448]	5.03 [.198]	Female
T6	0 / B / B10 / B3 / B9 / C5 / C6 / C7 / N6 / N7 / N8 / R3 / R4 / R5 / R6 / R7 / R8 / S5	11.08 [.436]	4.93 [.194]	Male
T6	P / S / S2	8.33 [.328]	4.93 [.194]	Male
T6	0 / B / B10 / B3 / B9 / C5 / C6 / C7 / N6 / N7 / N8 / R3 / R4 / R5 / R6 / R7 / R8 / S5	11.30 [.445]	5.59 [.220]	Female
T6	P / S / S2	8.99 [.354]	5.59 [.220]	Female
T7	C5 / C7 / C8	10.92 [.430]	4.57 [.180]	Female



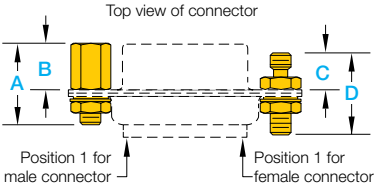
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

JACKSCREW SYSTEM - CODING DEVICE (KEYING)

T6^{*2}

Fixed female jackpost, fixed male jackscrew, 4-40 UNC threads

Top view of connector



Position 1 for male connector

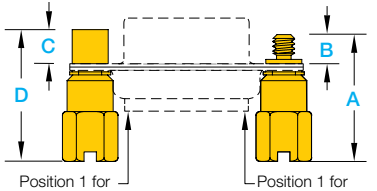
Position 1 for female connector

A	B	C	D
11.30 [.445]	5.59 [.220]	4.93 [.194]	11.07 [.436]

E6^{*2}

Rotating male jackscrews, rotating female jackpost, 4-40 UNC threads^{*1}

Top view of connector



Position 1 for male connector

Position 1 for female connector

A	B	C	D
16.94 [.667]	3.84 [.151]	4.50 [.177]	17.60 [.693]

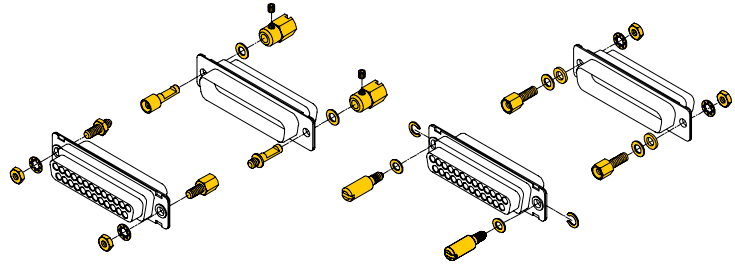
^{*1} For customer installations of knobs onto jackscrews, recommend set screw torque value of 16 in-oz. Recommend application of thread lock to set screw.

^{*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.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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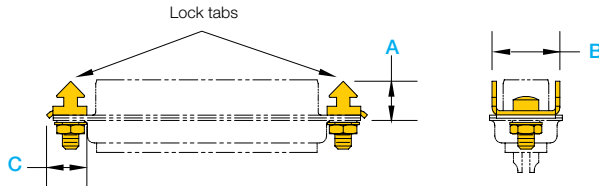
22

THE SCIENCE OF CERTAINTY

QUICK DISCONNECT LOCKING SYSTEMS

V3

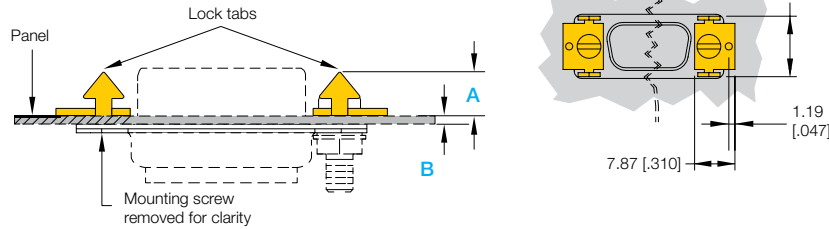
Lock tabs, use with free cable or front panel mount connectors



PART NUMBER	Shell Size	A	B	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]

V5

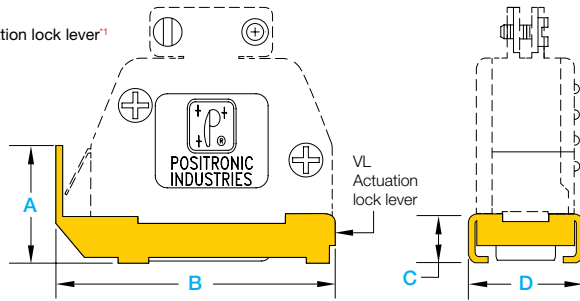
Lock tabs, use with rear panel mount connectors



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]

VL

Actuation lock lever^{*1}



^{*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)	B	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 [.635 +.020/- .015]	76.58 [3.015]	6.53 [.257]	15.04 [.592]
D500000VL0	5	16.13 [.635]	16.13 +.50/- .38 [.635 +.020/- .015]	73.66 [2.900]	6.78 [.267]	17.91 [.705]

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

CLEARANCE HOLE / FLOAT MOUNTS

0
Clearance hole, $\varnothing 3.05 \pm 0.13$ [.120 $\pm$.005]
For non-stainless steel connector housing (shells)

Clearance holes, two places

0
Clearance hole, $\varnothing 3.05 \pm 0.13$ [.120 $\pm$.005]
For stainless steel connector housing (shells)

Clearance holes, two places

02
Clearance hole, $\varnothing 3.91$ [.154]

Clearance holes, two places

F
Float mounts

$\varnothing 3.05 \pm 0.25$ [.120 $\pm$.010]
0.81 [.032] Total diametral float
 $\varnothing 2.18 + 0.13 / - 0.00$ [.086 +.005 / -.000] clearance holes, two places

SWAGED SPACERS

C5
Standoffs, swaged, boardlock, cul-de-sac style, 4-40 threaded hole, 8.89 [.350]

8.89 [.350]
Cul-de-sac style swaged spacer
4-40 UNC threads

C7
Inside wall mount, angle brackets, boardlocks, alignment bar

9.91 [.390]
Cul-de-sac style swaged spacer
4-40 UNC threads

P
Standoffs, removable, brass

A

S
Standoffs, swaged, 4-40

$\varnothing 4.75$ [.187]
A
Printed board
Internal View of Standoff
0.38 [.015]
4-40 UNC threads*

SERIES	Termination Code	A
MD, MDX, HDC	all	
ODD	21, 3, 32, 4, 5	5.72 [.225]
SND	2, 3, 32, 36, 42, 5	
SDD	34	
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	6.73 [.265]
CBD, CBM, CBDD	93	
PCD, PCDD	98	
RD, ORD, DD, CBC, CBCD	all	9.53 [.375]
ODD	0, 1, 2	
SND	0, 1, 12	
SDD	3, 32	
SCBC, SCBCD	all	11.10 [.437]
SD	all	

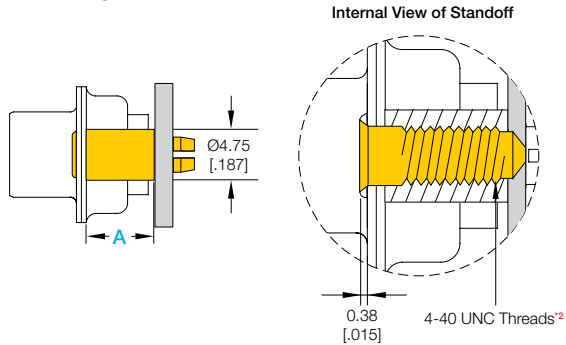
*1 Non-removable threaded hardware is built and inspected to 0.56 Nm [5in/lbs] or 80 in/oz torque.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

SWAGED SPACER WITH BOARDLOCK

S6*1

Standoffs, swaged, 4-40, boardlocks



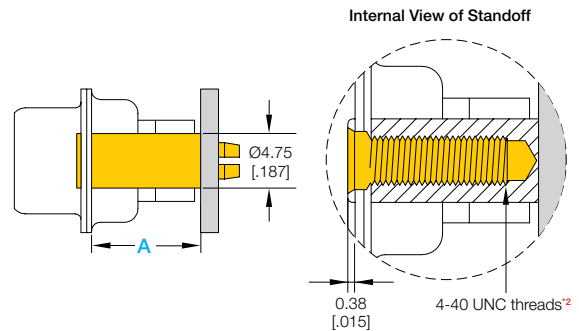
SERIES	Termination Code	A
MD, MDX, HDC	3, 32, 33, 36	5.72 [.225]
ODD	3, 32	
SND	3, 32, 36	6.35 [.250]
CBD, CBM, CBDD	3, 35, 36, 37, 65	
SCBM	3, 35, 36, 37, 65	
SCBDD	3, 35, 36, 37, 65	
DD	3, 32	9.53 [.375]
SDD	3, 32, 34	
SD	3, 32	11.10 [.437]

*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.

S7*1

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

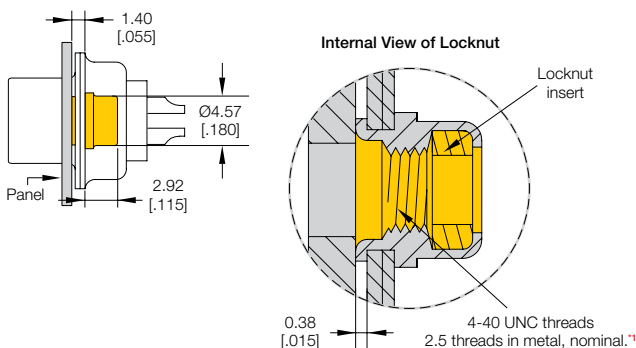


Connector Series	Termination Code	A
MD, MDX, HDC, ODD	32, 33	9.53 [.375]
ED, HDC	36	
DD	32, 33	13.08 [.515]

SWAGED LOCKNUT

S5

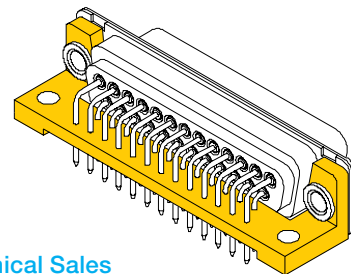
Locknut, swaged, 4-40



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

SWAGED PLASTIC MOUNTING BRACKETS WITH ALIGNMENT BAR

Non-conductive mounting brackets are necessary in many applications.



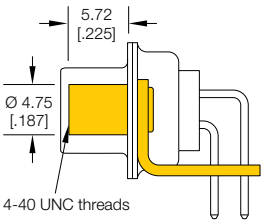
Contact Technical Sales
for more information

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

ANGLE BRACKET*1

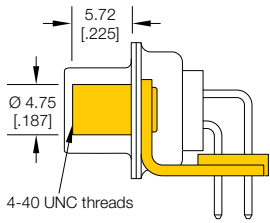
R

Angle brackets, swaged, metal with fixed female jackposts



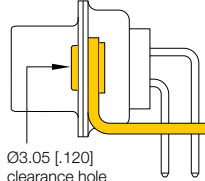
R2*1

Angle brackets, swaged, metal, alignment bar with fixed female jackposts



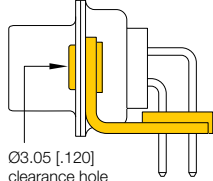
R3

Angle brackets, swaged, metal, clearance hole, Ø3.05 [.120]



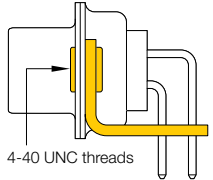
R6*1

Angle brackets, swaged, metal, clearance hole, Ø3.05 [.120], alignment bar



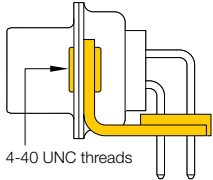
R4

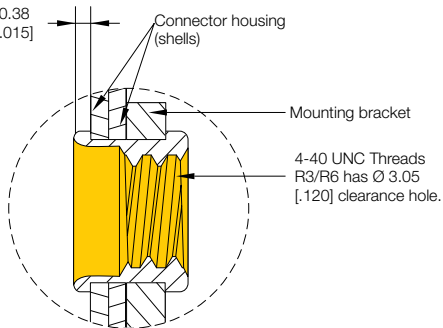
Angle brackets, swaged, metal, 4-40 threaded hole



R7*1

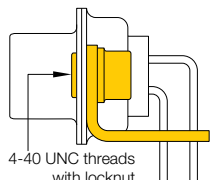
Angle brackets, swaged, metal, 4-40 threaded hole, alignment bar





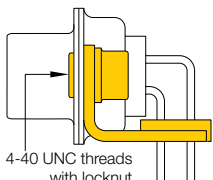
R5

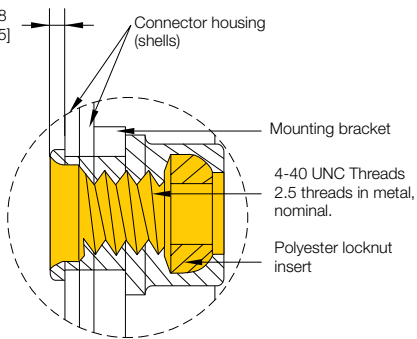
Angle brackets, swaged, metal, 4-40 locknut



R8*1

Angle brackets, swaged, metal, 4-40 locknut, alignment bar





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

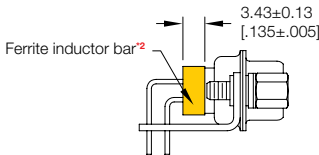
FERRITE INDUCTOR BAR / BEADS

F

Ferrite inductor^{*1}

Q

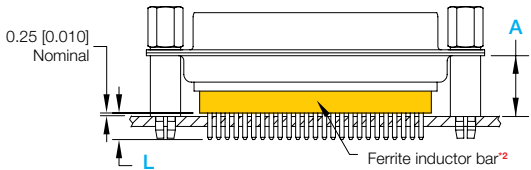
Ferrite inductor^{*1},
for use with boardlocks and
right angle mounting brackets



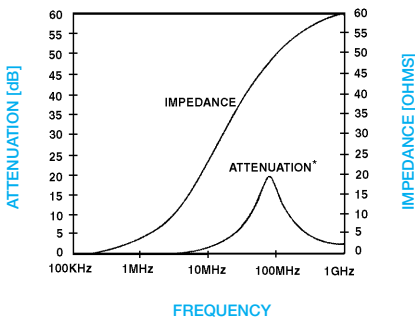
Notes

^{*1} This bar option is available for connector layout options 9, 15, 25, and 37. Ferrite beads are used for the other sizes. Contact Technical Sales for ferrite inductor ordering information on those connectors.

^{*2} Specify Code F or Q when ordering. F is for ferrite inductor and Q is for ferrite inductor with boardlocks and right angle brackets.



FILTERING CHARACTERISTICS



FERRITE INDUCTOR AVAILABILITY

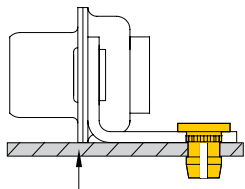
Termination Code	Series	A	L
32	MD, MDX, HDC	9.53 [.375]	6.10 [.240]
	ODD	9.53 [.375]	4.19 [.165]
	DD	13.08 [.515]	4.19 [.165]
33	MD, MDX, HDC	9.53 [.375]	9.27 [.365]
36	ED, HDC	9.53 [.375]	2.57 [.101]
4	MD, MDX	-	-
5	ODD	-	-
59	MD	-	-
6	MD, HDC	9.53 [.375]	9.14 [.360]

BOARDLOCKS

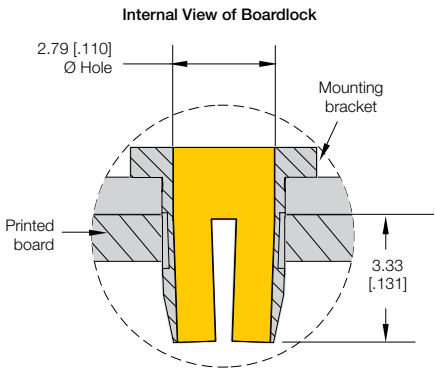
For use with code R,R2,R3,R4,R5,R6,R7,and R8

N

Boardlocks, for use with angle brackets



Printed board mounting hole to be
Ø3.120±0.08 [.123±.003] for use
with boardlock.



Typical Performance Evaluation Data

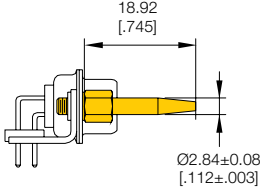
Printed Board Hole Ø	Insertion force		Retention force	
	Newton	Lbs.	Newton	Lbs.
3.05 [.120]	32.25	7-1/4	25.58	5-3/4
3.12 [.123]	25.58	5-3/4	24.47	5-1/2
3.18 [.125]	12.23	2-3/4	11.12	2-1/2
3.25 [.128]	7.78	1-3/4	10.01	2-1/4
3.20 [.126] Plated	7.78	1-3/4	10.01	2-1/4

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

BLIND MATE SYSTEM

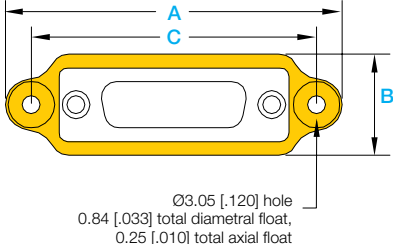
Blind mating guide pins (MOS -759.0)

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



Float mounting plate (MOS -759.1)

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



Shell Size	A (nominal)	B	C
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]

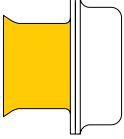
The use of blind mating hardware on D-Sub connectors can create functional challenges within the application and therefore requires additional mechanical design rigor. Be aware that system tolerances must be exact and mating force allowances may need to be higher than expected. Customers should qualify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

Contact Technical Sales for additional ordering information

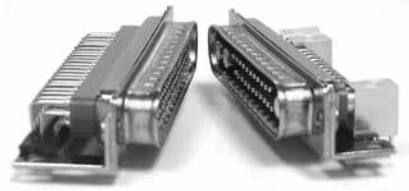
FLARED CONNECTOR HOUSING (SHELL)

Flared MOS-1503.33

Flared connector housing

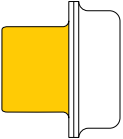


Flared connector housings provide a more **generous misalignment** characteristics than standard D-subminiature connector housings.



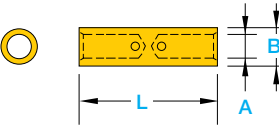
Standard

Connector housing for reference



Contact Technical Sales for part numbers and detail information.

IN-LINE CRIMP SPLICE



PART NUMBER	WIRE SIZE AWG / [mm2]	L	A	B
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.

Contact Technical Sales for crimp tool part number

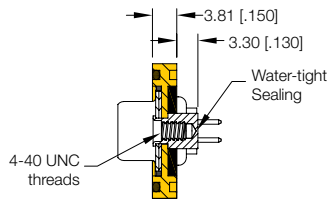
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

CUL-DE-SAC STYLE INSIDE WALL MOUNT

For use with code WD and WDD

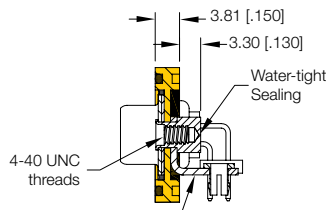
C5*1

Inside wall mount



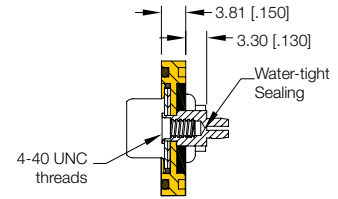
C7*1

Inside wall mount, angle brackets, boardlocks, alignment bar



C8*1

Inside wall mount, boardlocks

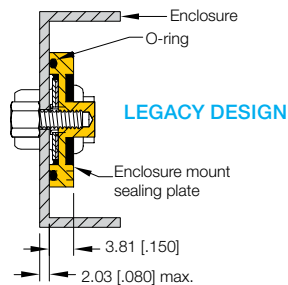
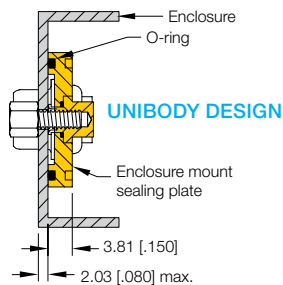


ENCLOSURE WALL MOUNT SEALING PLATE

For use with code WD and WDD

A*1

Inside wall mount sealing plate



*1 Sealing plate is mounted to enclosure wall with jackscrews torqued to a value of .20 Nm [1.75 in-lb] minimum, .25 Nm [2.25 in-lb] maximum.

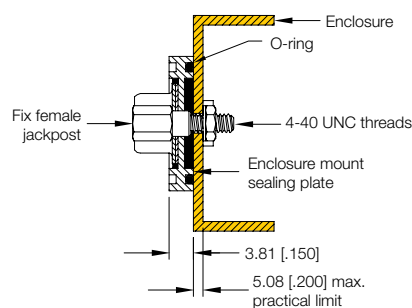
OUTSIDE WALL ENCLOSURE MOUNT

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

C9

Outside wall mount, sealing plate*1

NOTE: Outside wall mount not available in unibody design



*1 Sealing plate is mounted to enclosure wall with jackscrews torqued to a value of .20 Nm [1.75 in-lb] minimum, .25 Nm [2.25 in-lb] maximum.

Contact Technical Sales for additional ordering information

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

INTERFACIAL SEAL

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

Size 25 interfacial seal shown for reference only

Contact Technical Sales for additional ordering information

Shell Size	Gender	A	B
1	Male	17.17 [.676]	8.59 [.338]
2	Male	25.40 [1.000]	8.59 [.338]
3	Male	39.37 [1.550]	8.59 [.338]
4	Male	55.57 [2.188]	8.59 [.338]
5	Male	52.78 [2.078]	11.18 [.440]
6	Male	56.17 [2.212]	12.85 [.506]

INTERFACIAL SEAL / REAR GROMMETS

For use with EVD series

8.13 [.320] Additional length

Interfacial seal

Rear grommet

0.94 [.037]

INTERFACIAL SEAL

REAR GROMMET

10.41 [.410]

2.29 [.090]

INTERFACIAL SEAL & REAR GROMMET			
Layout	Seal Type	A	B
9	Interfacial	16.51 [.650]	8.08 [.318]
	Grommet	18.421 [.725]	9.53 [.375]
15	Interfacial	24.84 [.978]	8.08 [.318]
	Grommet	26.70 [1.051]	9.53 [.375]
25	Interfacial	38.43 [1.513]	8.08 [.318]
	Grommet	40.51 [1.595]	9.53 [.375]
37	Interfacial	54.76 [2.156]	8.08 [.318]
	Grommet	57.07 [2.247]	9.53 [.375]
50	Interfacial	52.27 [2.058]	10.80 [.425]
	Grommet	54.53 [2.147]	12.45 [.490]

SEALING PLUGS

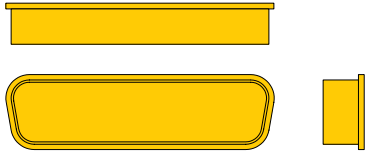
For use with EVD series, Order separately, part number A4737-37-0-0

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

PROTECTIVE COVER

Cover Without Ears

For connectors without fixed female jackscrews



Cover With Ears

For connectors with fixed female jackscrews

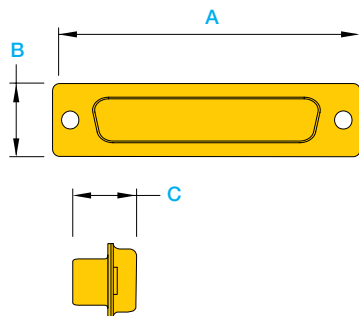


Shell Size	Gender	REPLACEMENT PART NUMBERS		
		Conductive Without Ears	Static Dissipative Without Ears	With Ears
1	Male	A4931-9-0-0	A4931-9-1-0	A4931-9-100-0
	Female	A4932-9-0-0	A4932-9-1-0	A4932-9-100-0
2	Male	A4931-15-0-0	A4931-15-1-0	A4931-15-100-0
	Female	A4932-15-0-0	A4932-15-1-0	A4932-15-100-0
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



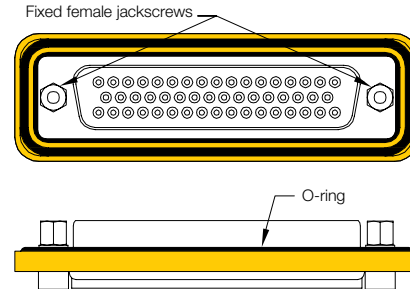
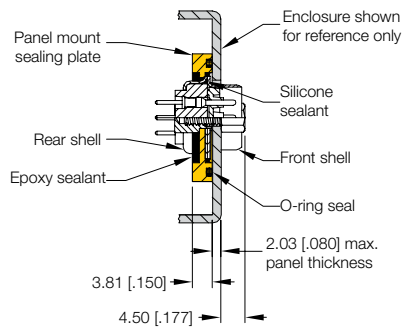
*1 To order protective cover with code 'E2' rotating male screw locks, insert "N" into the last digit of part number. Omit this digit if thread locks are not required.

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]	12.55 [.494]	10.72 [.422]
	PSK633-15FG* ¹	Male			10.90 [.429]
3	PSK633-25MG* ¹	Female	53.04 [2.088]	12.55 [.494]	10.82 [.426]
	PSK633-25FG* ¹	Male			10.90 [.429]
4	PSK633-37MG* ¹	Female	69.32 [2.729]	12.55 [.494]	10.82 [.426]
	PSK633-37FG* ¹	Male			10.90 [.429]
5	PSK633-50MG* ¹	Female	66.93 [2.635]	15.37 [.605]	10.82 [.426]
	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]

DIMENSIONS ARE IN MILLIMETERS [INCHES].
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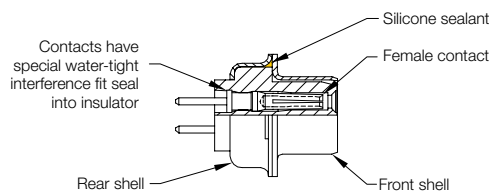
MACHINED ALUMINUM MOUNTING PLATE

With conductive o-ring

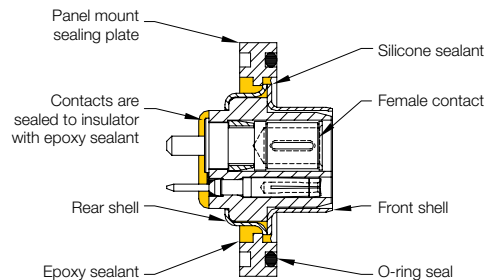


OTHER SEALED D-SUBMINIATURE CONNECTOR OPTIONS

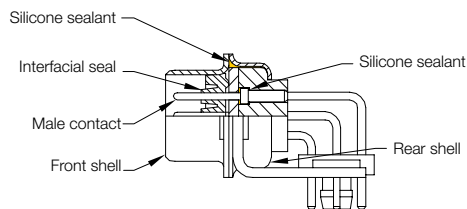
MD Style Connector



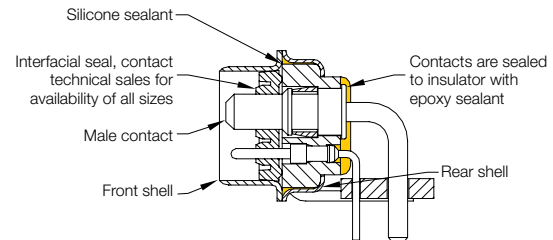
COMBO-D Style Connector



ODD Style Connector



COMBO-D Style Connector



SEALED STANDARD OR HIGH DENSITY D-SUBMINIATURE

- Available in both standard density and high density connector variants.
- Standard MD or ODD series connectors can be sealed between the connector shell and the connector insert.
- Contact technical sales for more information.

SEALED COMBINATION D-SUBMINIATURE

- Could be supplied with mounting plate or without.
- Contact technical sales for more information or additional contact configurations.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
 ALL DIMENSIONS ARE SUBJECT TO CHANGE.

See connectpositronic.com
for all other Dsub-related
information including:

- ✓ **Footprints** 
- ✓ **Tooling** 
- ✓ **Product updates** 
- ✓ **Detailed dimensions** 
- ✓ **2D/3D drawings** 

All dimensional tolerances are ± 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.

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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

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Positronic Industries SAS: FA7Y0
Positronic Asia PTE LTD: QB952

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