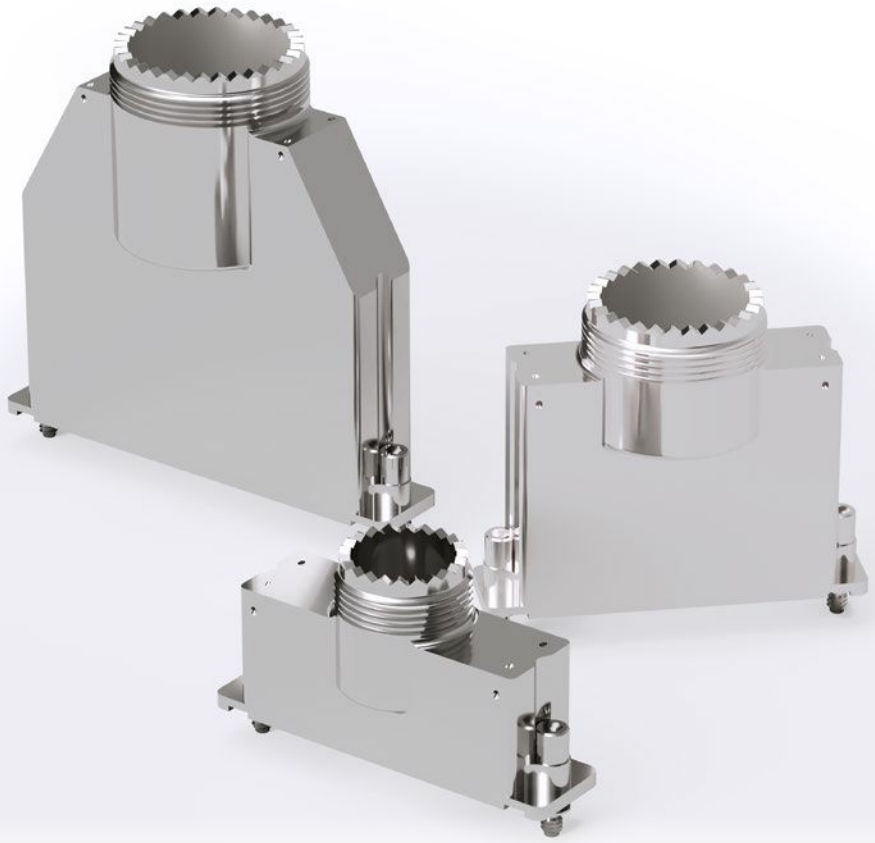
PRECISION MACHINED ONE-PIECE THREADED BACKSHELLS

LIGHTWEIGHT ALUMINUM OR STAINLESS STEEL

X3 SERIES, FOR USE WITH D-SUB CONNECTORS AND CIRCULAR M38999 / AS85049 BACKSHELL ACCESSORIES



FEATURES

- Suitable with machined and stamped shells for standard, high, and mixed density D-Sub connectors, including the Mach-D Series
- Available in sizes 1 through 6
- Threaded top entry for use with AS85049 backshell accessories compatible with M38999 connectors
- Standard and low profile
- Rotating or fixed jackscrews
- Spacious interior
- One-piece construction
- Metal backshell offers EMI protection
- Suitable for robust use
- Customizable

TECH SPECS

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

MATERIAL AND FINISHES

Material	Aluminum:	Conductive electroless nickel; low-mag electroless nickel; black anodize; olive drab cadmium; gold
	Stainless Steel:	Passivated
Hardware	Stainless steel, passivated Brass with 1.27µm min. gold plate	

MECHANICAL

Cable Entry	Top entry
Locking System	Jackscrews

ENVIRONMENTAL

Operating Temperature	-55 to 125°C

LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

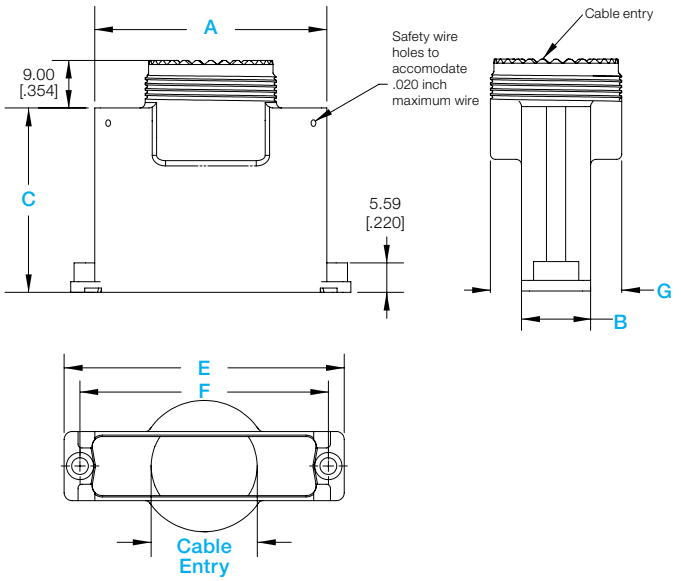
For the sake of brevity, only basic dimensions are shown here. Additional dimensional detail is available in the respective product drawings.

For use with code E or T2

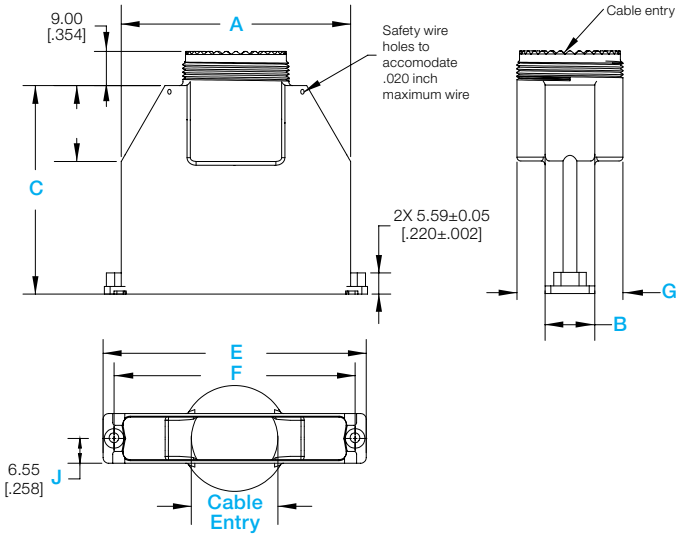
X3P

Backshell, threaded, aluminum or stainless steel, top entry

SIZE 1, 2, 3



SIZE 4, 5, 6



X3P backshell shown with **E** option

X3P backshell shown with **T2** option

X3P backshell shown with **E** option

X3P backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Connector / Contact Arrangement Compatibility		Shell Size	A	B	C	E	F	G	Cable Entry*2	M38999 Shell Size	Total Mass*3*4
D9000X3PN*1E0 D9000X3PN*1T20	Std-D: 9 High-D: 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	21.97 [.865]	13.11 [.516]	34.93 [1.375]	30.81 [1.213]	24.99 [.984]	17.874 [.704]	16.674² [.656²]	13	11.80 grams
D15000X3PN*1E0 D15000X3PN*1T20	Std-D: 15 High-D: 26	Combo-D: 3W3, 3WK3, 7W2, 11W1 Combo-D High-D: 19W1	2	30.30 [1.193]	13.11 [.516]	34.93 [1.375]	39.14 [1.541]	33.32 [1.312]	17.874 [.704]	16.674² [.656²]	13	13.70 grams
D25000X3PN*1E0 D25000X3PN*1T20	Std-D: 25 High-D: 44	Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 Combo-D High-D: 15W4	3	43.97 [1.731]	13.11 [.516]	34.93 [1.375]	53.04 [2.088]	47.04 [1.852]	24.874 [.979]	23.674² [.932²]	17	19.60 grams
D37000X3PN*1E0 D37000X3PN*1T20	Std-D: 37 High-D: 62	Combo-D: 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Combo-D High-D: 45W2	4	60.43 [2.379]	13.11 [.516]	54.93 [2.162]	69.32 [2.729]	63.50 [2.500]	24.874 [.979]	26.674² [1.050²]	19	32.70 grams
D50000X3PN*1E0 D50000X3PN*1T20	Std-D: 50 High-D: 78	Combo-D: 24W7, 36W4, 43W2, 47W1 Combo-D High-D: n/a	5	58.04 [2.285]	16.03 [.631]	54.93 [2.162]	66.93 [2.635]	61.11 [2.406]	24.874 [.979]	26.674² [1.050²]	19	32.70 grams
D104000X3PN*1E0 D104000X3PN*1T20	Std-D: n/a High-D: 104	Combo-D: 46W4 Combo-D High-D: n/a	6	60.43 [2.379]	17.60 [.693]	54.93 [2.162]	69.32 [2.729]	63.50 [2.500]	24.874 [.979]	23.674² [.932²]	17	29.80 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 4.

*2 Custom cable entry is available. Contact Technical Sales for more information.

*3 Total Mass shown is for D*000X3PNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.

*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

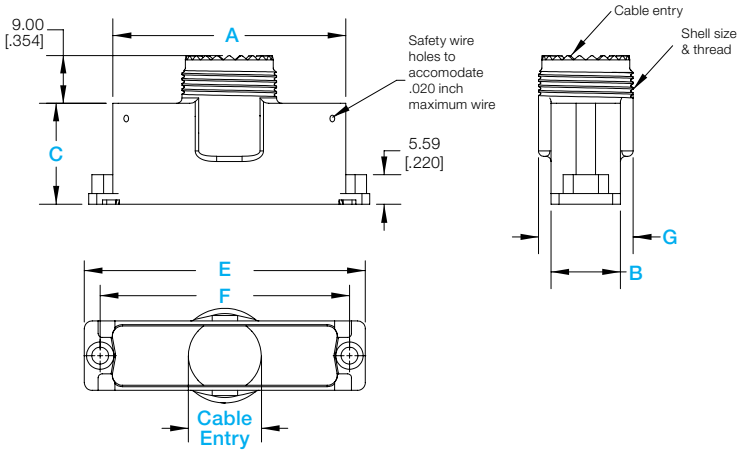
LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

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

For use with code E or T2

X3W

Backshell, threaded, aluminum or stainless steel, top entry, low profile
For use with Combo-D layouts, contact Technical Sales.



X3W backshell shown with **E** option

X3W backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Connector / Contact Arrangement Compatibility		Shell Size	A	B	C	E	F	G	Cable Entry*2	M38999 Shell Size & Thread	Total Mass*3*4
D9000X3WN*1E0 D9000X3WN*1T20	Std-D: 9 High-D: 15	Combo-D: 5W1, 2WK2 Combo-D High-D: 8W2	1	21.97 [.865]	13.11 [.516]	19.05 [.750]	30.81 [1.213]	24.99 [.984]	11.874 [.467]	10.674² [.420²]	9	8.20 grams
D15000X3WN*1E0 D15000X3WN*1T20	Std-D: 15 High-D: 26	Combo-D: 3W3, 3WK3, 7W2, 11W1 Combo-D High-D: 19W1	2	30.30 [1.193]	13.11 [.516]	19.05 [.750]	39.14 [1.541]	33.32 [1.312]	14.874 [.586]	13.674² [.538²]	11	9.70 grams
D25000X3WN*1E0 D25000X3WN*1T20	Std-D: 25 High-D: 44	Combo-D: 5W5, 9W4, 13W3, 17W2, 21W1 Combo-D High-D: 15W4	3	43.97 [1.731]	13.11 [.516]	19.05 [.750]	53.04 [2.088]	47.04 [1.852]	17.874 [.704]	16.674² [.656²]	13	12.40 grams
D37000X3WN*1E0 D37000X3WN*1T20	Std-D: 37 High-D: 62	Combo-D: 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Combo-D High-D: 45W2	4	60.43 [2.379]	13.11 [.516]	19.05 [.750]	69.32 [2.729]	63.50 [2.500]	21.874 [.861]	20.674² [.814²]	15	16.70 grams
D50000X3WN*1E0 D50000X3WN*1T20	Std-D: 50 High-D: 78	Combo-D: 24W7, 36W4, 43W2, 47W1 Combo-D High-D: n/a	5	58.04 [2.285]	16.03 [.631]	19.05 [.750]	66.93 [2.635]	61.11 [2.406]	21.874 [.861]	20.674² [.814²]	15	16.80 grams
D104000X3WN*1E0 D104000X3WN*1T20	Std-D: n/a High-D: 104	Combo-D: 46W4 Combo-D High-D: n/a	6	60.43 [2.379]	17.60 [.693]	19.05 [.750]	69.32 [2.729]	63.50 [2.500]	24.874 [.979]	23.674² [.932²]	17	17.70 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 4.
*2 Custom cable entry is available. Contact Technical Sales for more information.
*3 Total Mass shown is for D*000X3WNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.
*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

D	15	0	0	0	X3PN	E	0	/AA

Series

D D-Sub

Layout

9 Shell size 1
15 Shell size 2
25 Shell size 3
37 Shell size 4
50 Shell size 5
104 Shell size 6

Contact Gender

0 None

Termination

0 None

Mounting Options

0 None

Environmental Compliance

/AA RoHS Compliant

Connector Material & Finish

0 Material & Finish per Backshell Style Selection

Locking Systems

E Rotating male jackscrews, 4-40 UNC threads, internal hex
T2 Fixed female jackposts, 4-40 UNC threads, washer set

Backshell Style

BACKSHELL TYPE	6.1
X3P Top entry	
X3W Top entry, low profile	

MATERIAL & FINISH OPTIONS		6.2
Backshell Finish		**Hardware Material**
Standard Platings		
BA	Anodize, black	Stainless steel, passivated
L	Electroless nickel, conductive	Stainless steel, passivated
N	Electroless nickel, low mag	Stainless steel, passivated
S	Stainless steel, passivated	Stainless steel, passivated
C	No finish	Stainless steel, passivated
Optional Platings		
DC	Cadmium, olive drab	Stainless steel, passivated
G	Gold 0.76µm min.	Brass, 1.27µm min. gold plate

Our backshells are also available as part of connector kits. To include a backshell in a connector kit, insert the appropriate Backshell Series (shown above) into the Backshells & Boardlocks step of a connector part number. Examples follow:

Series	Layout	Contact Gender	Termination	Mounting Option	Backshells & Boardlocks	Locking Systems	Shells	Environmental Compliance	PART NUMBER
RD	15	M	1	0	X3PS	E	S	/AA	RD15M10**X3PSE**S/AA
DD	44	P	2	0	X3WL	E	L	/AA	DD44P20**X3WLE**L/AA
CBC	7W2	M	11	0	X3PDC	T2	C		CBC7W2M110**X3PDCT2**C
MCDD	26	S	0	0	X3WN	T2	K	/AA	MCDD26S00**X3WNT2**K/AA
SND	25	M	1	0	X3WG	E	G	/AA	SND25M10**X3WGE**G/AA

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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