PRECISION MACHINED ONE-PIECE SHORTING CAN CLOSED BACKSHELL

LIGHTWEIGHT ALUMINUM

XC / XCL SERIES, FOR USE WITH D-SUB CONNECTORS USED FOR SWITCHING OR SHORTING

FEATURES / TECH SPECS

- Suitable with standard and high density D-Sub connectors with stamped shells; XC version also suitable for mixed density D-Sub connectors
- Available in sizes 1 through 6
- Standard and low profile
- Rotating or fixed jackscrews
- 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
REACH Compliance	Compliant

MATERIAL AND FINISHES

Material	Aluminum
Magnetism Level *1	Magnetic Permeability ≤ 2 μ Residual Magnetism ≤ 20 gamma *2
Outgassing	ASTM E595 ECSS-Q-ST-70-02C

MECHANICAL

Locking System	Jackscrews

ENVIRONMENTAL

Operating Temperature	-55 to 125°C

*1 Performance not guaranteed on Mounting or Material & Finish code “L.” Contact Technical Sales for additional options.

*2 Meets ESCC NMC and GSFC Level C requirements when ordered with Material & Finish code “G” and Mounting/Locking Systems code “0” (e.g., D#000#G00/AA). Contact Technical Sales for additional options.

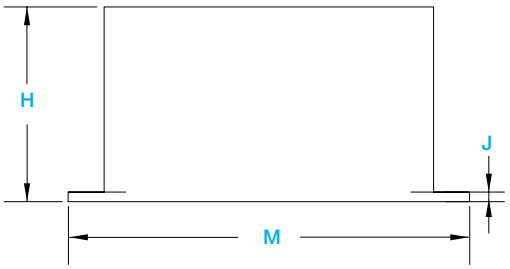
LIGHTWEIGHT ALUMINUM BACKSHELLS

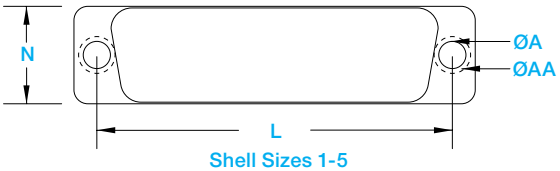
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

For use with code E or T2

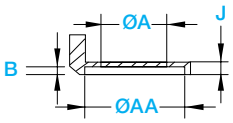
XC

Backshell, closed, aluminum

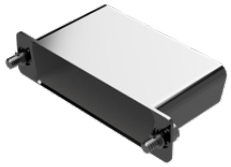




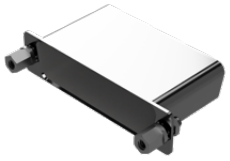
Shell Sizes 1-5



Shell Sizes 6



XC backshell shown with **E** option



XC backshell shown with **T2** option

Dimensions are in millimeters [inches]

Shell Size	ØA	ØAA	B	D	H	J	L	M	N	Total Mass		
Tolerances	±0.06 [±.002]	±0.05 [±.002]	±0.05 [±.002]	±0.10 [±.004]	±0.13 [±.005]	±0.13 [±.005]	±0.13 [±.005]	±0.13 [±.005]	±0.13 [±.005]	g ±5%	ESCC Equivalent (for reference only, without hardware)	
											Finish 'G'	Finish 'N'
1	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	25.40 [1.000]	0.90 [.035]	24.99 [.984]	30.81 [1.213]	12.50 [.492]	3.5 grams	340107210B NMBA	340107210B NMBA-A174
2	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	25.40 [1.000]	0.90 [.035]	33.32 [1.312]	39.14 [1.541]	12.50 [.492]	4.5 grams	340107211B NMBA	340107211B NMBA-A174
3	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	25.40 [1.000]	0.90 [.035]	47.04 [1.852]	53.04 [2.088]	12.50 [.492]	6.2 grams	304107212B NMBA	304107212B NMBA-A174
4	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	25.40 [1.000]	0.90 [.035]	63.50 [2.500]	69.32 [2.729]	12.50 [.492]	8.2 grams	304107213B NMBA	304107213B NMBA-A174
5	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	25.40 [1.000]	0.90 [.035]	61.11 [2.406]	66.93 [2.635]	15.29 [.602]	8.6 grams	304107214B NMBA	304107214B NMBA-A174
6	3.98 [.157]	-	-	15.25 [.600]	25.40 [1.000]	0.90 [.035]	63.50 [2.500]	69.32 [2.729]	16.89 [.665]	9.3 grams	304107273B NMB	304107273B NMB-A174

LIGHTWEIGHT ALUMINUM BACKSHELLS

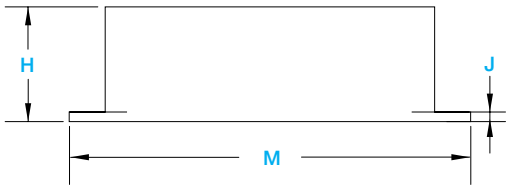
For the sake of brevity, only basic dimensions are shown here. Full dimensional detail is available in the respective product drawings.

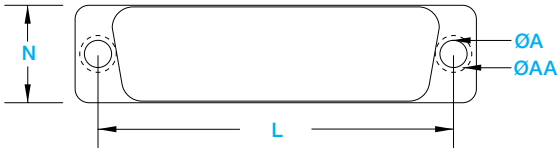
For use with code E or T2

XCL

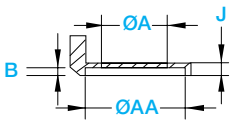
Backshell, closed, aluminum, low profile

The low-profile design of the XCL backshell may limit compatibility with certain connector configurations.





Shell Sizes 1-5



Shell Sizes 6

XCL backshell shown with **E** option

XCL backshell shown with **T2** option

Dimensions are in millimeters [inches]

Shell Size	ØA	ØAA	B	D	H	J	L	M	N	Total Mass		
Tolerances	±0.06 [±.002]	±0.05 [±.002]	±0.05 [±.002]	±0.10 [±.004]	±0.13 [±.005]	±0.13 [±.005]	±0.13 [±.005]	±0.13 [±.005]	±0.13 [±.005]	g ±5%	ESCC Equivalent (for reference only, without hardware)	
											Finish 'G'	Finish 'N'
1	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	12.70 [.500]	0.90 [.035]	24.99 [.984]	30.81 [1.213]	12.50 [.492]	2.1 grams	340107261B NMBA	340107261B NMBA-A174
2	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	12.70 [.500]	0.90 [.035]	33.32 [1.312]	39.14 [1.541]	12.50 [.492]	2.7 grams	340107262B NMBA	340107262B NMBA-A174
3	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	12.70 [.500]	0.90 [.035]	47.04 [1.852]	53.04 [2.088]	12.50 [.492]	3.7 grams	340107263B NMBA	340107263B NMBA-A174
4	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	12.70 [.500]	0.90 [.035]	63.50 [2.500]	69.32 [2.729]	12.50 [.492]	5.0 grams	340107264B NMBA	340107264B NMBA-A174
5	3.98 [.157]	5.20 [.205]	0.50 [.020]	-	12.70 [.500]	0.90 [.035]	61.11 [2.406]	66.93 [2.635]	15.29 [.602]	5.3 grams	340107265B NMBA	340107265B NMBA-A174
6	3.98 [.157]	-	-	15.25 [.600]	25.40 [1.000]	0.90 [.035]	63.50 [2.500]	69.32 [2.729]	16.89 [.665]	9.3 grams	304107273B NMB	304107273B NMB-A174

D	15	0	0	0	XCG	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
L[*1] Lanyard

[*1] Mounting Option should not be considered low magnetism.

Backshell Style

Locking Systems

0 None
E Rotating male jackscrews, 4-40 UNC threads, slotted thumbscrews
T2 Fixed female jackposts, 4-40 UNC threads, washer set

Connector Material & Finish

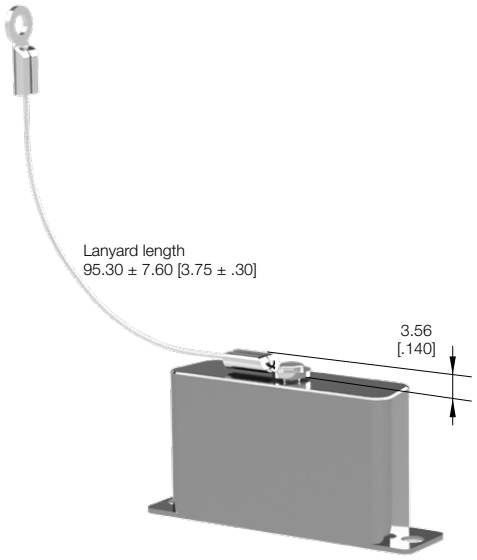
0 None

Environmental Compliance

/AA RoHS Compliant

BACKSHELL TYPE	6.1
XC Standard height	
XCL Low profile	

MATERIAL & FINISH OPTIONS		6.2
Backshell Finish		**Hardware Material & Finish**
Standard Platings		
G	Gold 0.76µm min.	Brass, 1.27µm min. gold plate
N	Electroless nickel, low-mag	Stainless steel, passivated
C	No finish	Stainless steel, passivated
Optional Platings		
A	Anodize, yellow	Stainless steel, passivated
I	Chemical conversion coating	Stainless steel, passivated



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