

AS85049/5 Style 1 Straight Environmental Backshell



AS85049

CONNECTOR DESIGNATOR:

C MIL-DTL-22992 Classes C, J and R

Finish

A = Hard-coat Anodize

W = Cadmium, Olive Drab

Y = Pure Dense

Electrodeposited Aluminum

X = Nickel Fluorocarbon Polymer

Z = Zinc Nickel

M85049/5

Basic
Part Number

W

Dash Number
(Table II)

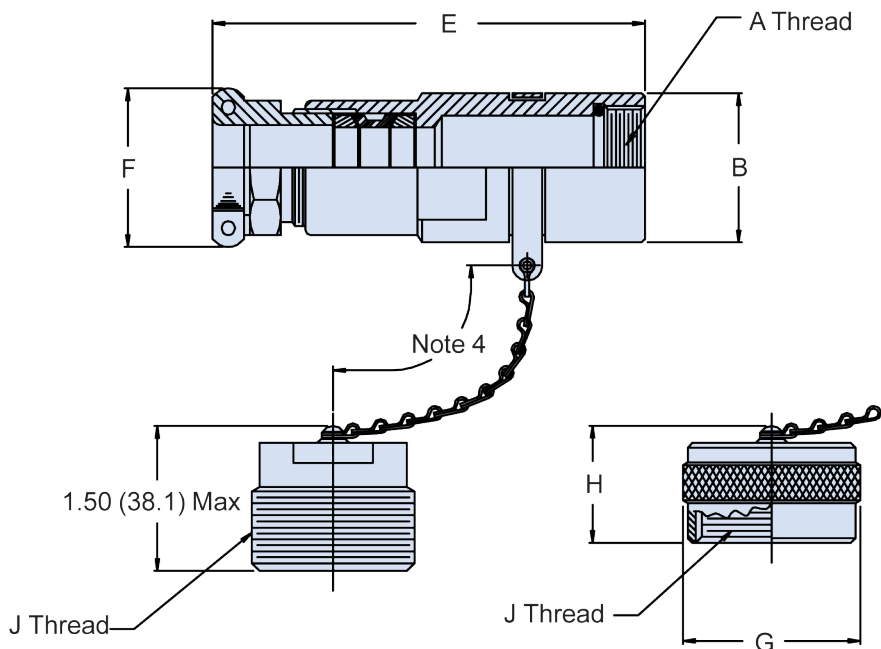
10

A

Type
A or B

1

Style 1



TYPE A - Plug Cap
For use with MS17344

TYPE B - Receptacle Cap
For use with MS17343,
MS17345, and MS17347

APPLICATION NOTES

1. For complete dimensions see the applicable Military Specification.
2. Metric dimensions (mm) are in parentheses.
3. Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Approximate chain lengths: Dash No. 01-12 = 5.0 (127.0); Dash No. 13-29 = 6.0 (152.4).

Dimensions in inches (millimeters) and are subject to change without notice.

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Mil-Spec Backshells

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Rev. 10.27.21



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B

TABLE I: Shell Size and Dimensions

Shell Size	A Thread Class 2B-LH	B Dia ±.015 (0.4)	G Dia Max	H Max	J Thread (Plated) Class 2 (A or B)
12	.7500 - 20 UNEF	.933 (23.7)	1.094 (27.8)	.765 (19.4)	0.875-0.1P-0.2L-DS
18	1.1250 - 18 UNEF	1.307 (33.2)	1.469 (37.3)	.980 (24.9)	1.250-0.1P-0.2L-DS
20	1.2500 - 18 UNEF	1.433 (36.4)	1.562 (39.7)	.980 (24.9)	1.375-0.1P-0.2L-DS
22	1.3750 - 18 UNEF	1.557 (39.5)	1.688 (42.9)	.980 (24.9)	1.500-0.1P-0.2L-DS
24	1.6250 - 18 UNEF	1.807 (45.9)	1.938 (49.2)	.980 (24.9)	1.750-0.1P-0.2L-DS
28	1.8750 - 16 UN	2.057 (52.2)	2.219 (56.4)	.980 (24.9)	2.000-0.1P-0.2L-DS
32	2.0625 - 16 UNS	2.307 (58.6)	2.469 (62.7)	.980 (24.9)	2.250-0.1P-0.2L-DS
36	2.3125 - 16 UNS	2.557 (64.9)	2.719 (69.1)	.980 (24.9)	2.500-0.1P-0.2L-DS
40	2.6250 - 16 UN	2.870 (72.9)	2.969 (75.4)	.980 (24.9)	2.750-0.1P-0.2L-DS
44	2.8750 - 16 UN	3.120 (79.2)	3.217 (81.7)	.980 (24.9)	3.000-0.1P-0.2L-DS

TABLE II: Dash Number and Cable Range

Dash No.	Shell Size	E Max	F ± .031 (0.8)	Cable Range	
				Min	Max
1	12	3.182 (80.8)	.938 (23.8)	.156 (4.0)	.250 (6.4)
2	18	3.901 (99.1)	1.062 (27.0)	.281 (7.1)	.375 (9.5)
3	18	3.932 (99.9)	1.125 (28.6)	.281 (7.1)	.375 (9.5)
4	18	3.901 (99.1)	1.062 (27.0)	.188 (4.8)	.281 (7.1)
5	18	4.177 (106.1)	1.375 (34.9)	.511 (13.0)	.605 (15.4)
6	18	4.177 (106.1)	1.375 (34.9)	.436 (11.1)	.530 (13.5)
7	20	4.489 (114.0)	1.562 (39.7)	.605 (15.4)	.699 (17.8)
8	20	4.489 (114.0)	1.562 (39.7)	.361 (9.2)	.455 (11.6)
9	20	4.306 (109.4)	1.375 (34.9)	.511 (13.0)	.605 (15.4)
10	22	4.584 (116.4)	1.688 (42.9)	.449 (11.4)	.562 (14.3)
11	22	4.306 (109.4)	1.375 (34.9)	.311 (7.9)	.405 (10.3)
12	22	4.306 (109.4)	1.375 (34.9)	.715 (18.2)	.828 (21.0)
13	24	4.647 (118.0)	1.812 (46.0)	.787 (20.0)	.900 (22.9)
14	24	4.647 (118.0)	1.812 (46.0)	.517 (13.1)	.630 (16.0)
15	24	4.647 (118.0)	1.812 (46.0)	.637 (16.2)	.750 (19.1)
16	24	4.647 (118.0)	1.812 (46.0)	.857 (21.8)	.970 (24.6)
17	24	4.542 (115.4)	1.688 (42.9)	.715 (18.2)	.828 (21.0)
18	24	4.647 (118.0)	1.812 (46.0)	.692 (17.6)	.805 (20.4)
19	28	4.896 (124.4)	2.125 (54.0)	.755 (19.2)	.880 (22.4)
20	28	4.896 (124.4)	2.125 (54.0)	.984 (25.0)	1.109 (28.2)
21	28	4.647 (118.0)	1.812 (46.0)	.637 (16.2)	.750 (19.1)
22	28	4.229 (107.4)	1.125 (28.6)	.281 (7.1)	.375 (9.5)
23	28	4.647 (118.0)	1.812 (46.0)	.857 (21.8)	.970 (24.6)
24	28	4.896 (124.4)	2.125 (54.0)	.875 (22.2)	1.000 (25.4)
25	28	4.431 (112.5)	1.375 (34.9)	.436 (11.1)	.530 (13.5)
26	28	4.647 (118.0)	1.812 (46.0)	.567 (14.4)	.680 (17.3)
27	32	4.896 (124.4)	2.125 (54.0)	.930 (23.6)	1.055 (26.8)
28	32	4.959 (126.0)	2.469 (62.7)	1.105 (28.1)	1.230 (31.2)
29	32	4.647 (118.0)	1.812 (46.0)	.637 (16.2)	.750 (19.1)
30	32	4.896 (124.4)	2.125 (54.0)	.755 (19.2)	.880 (22.4)
31	32	4.896 (124.4)	2.125 (54.0)	.984 (25.0)	1.109 (28.2)
32	32	4.647 (118.0)	1.812 (46.0)	.857 (21.8)	.970 (24.6)
33	32	4.276 (108.6)	1.125 (28.6)	.281 (7.1)	.375 (9.5)
34	32	4.431 (112.5)	1.375 (34.9)	.436 (11.1)	.530 (13.5)
35	32	4.959 (126.0)	2.469 (62.7)	1.005 (25.5)	1.130 (28.7)
36	36	4.959 (126.0)	2.469 (62.7)	1.185 (30.1)	1.310 (33.3)
37	36	4.896 (124.4)	2.125 (54.0)	.984 (25.0)	1.109 (28.2)
38	36	5.021 (127.5)	2.625 (66.7)	1.250 (31.8)	1.375 (34.9)
39	36	4.959 (126.0)	2.469 (62.7)	1.055 (26.8)	1.180 (30.0)
40	36	5.021 (127.5)	2.625 (66.7)	1.320 (33.5)	1.445 (36.7)
41	36	4.651 (118.1)	1.812 (46.0)	.857 (21.8)	.970 (24.6)
42	36	4.959 (126.0)	2.469 (62.7)	1.105 (28.1)	1.230 (31.2)
43	40	6.354 (161.4)	3.171 (80.5)	1.815 (46.1)	1.940 (49.3)
44	40	6.354 (161.4)	3.171 (80.5)	1.700 (43.2)	1.825 (46.4)
45	40	6.354 (161.4)	3.171 (80.5)	1.605 (40.8)	1.730 (43.9)
46	40	6.057 (153.8)	2.953 (75.0)	1.531 (38.9)	1.656 (42.1)
47	44	6.345 (161.2)	3.375 (85.7)	1.867 (47.4)	2.000 (50.8)
48	44	5.266 (133.8)	3.171 (80.5)	1.775 (45.1)	1.900 (48.3)

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