

AS85049/11 and MS3437B Straight Environmental Backshell



AS85049

CONNECTOR DESIGNATOR:

A

AS50151 Series AS34001
MIL-DTL-26482 Series II
AS81703 Series III
MIL-DTL-83723 Series I & III
40M39569, DEF 5326-3, EN 2997
EN 3646, ESC 10, ESC 11, LN 29504
NFC93422 Series HE302
PAN 6432-1, PAN 6432-2, PATT 602

**Basic
Part Number**

**Dash Number
(Table II)**

M85049/11 - 21 N

**Superseded
Part Number**

MS3437B 21 N

**Basic
Part No.**

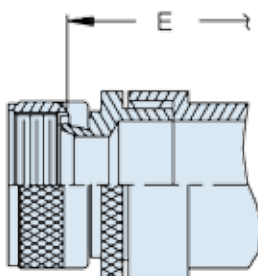
**Dash
No.**

**Finish
(Material is Aluminum Only)**

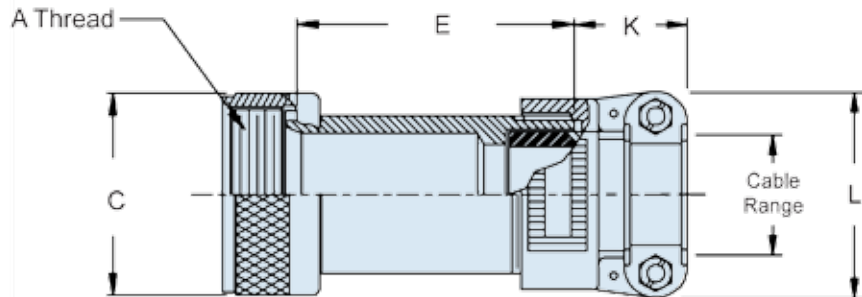
A = Cadmium Olive Drab over Nickel
C = Cadmium Olive Drab
N = Electroless Nickel

Finish / Material

B = Black Cadmium / Stainless Steel
N = Electroless Nickel / Aluminum
S = Passivated / Stainless Steel
W = 1,000 Hr. Cadmium Olive Drab over Electroless Nickel / Aluminum
X = Nickel Fluorocarbon Polymer / Aluminum
Y = Pure Dense Electrodeposited Aluminum / Aluminum
Z = Zinc Nickel, Black / Aluminum
XS = Nickel Fluorocarbon Polymer / Stainless Steel
YS = Pure Dense Electrodeposited Aluminum / Stainless Steel
ZS = Zinc Nickel, Black / Stainless Steel



STYLE 2



STYLE 1

TABLE I: Shell Size and Dimensions

Shell Size	A Thread Class 2B-LH	C Dia Max
3	.562 - 24 UNEF	.669 (17.0)
8	.500 - 20 UNF	.617 (15.7)
10	.625 - 24 UNEF	.734 (18.6)
12	.750 - 20 UNEF	.858 (21.8)
14	.875 - 20 UNEF	.984 (25.0)
16	1.000 - 20 UNEF	1.112 (28.2)
18	1.062 - 18 UNEF	1.218 (30.9)
20	1.188 - 18 UNEF	1.345 (34.2)
22	1.313 - 18 UNEF	1.468 (37.3)
24	1.438 - 18 UNEF	1.593 (40.5)
28	1.750 - 18 UNS	1.969 (50.0)
32	2.000 - 18 UNS	2.219 (56.4)
36	2.250 - 16 UN	2.469 (62.7)
40	2.500 - 16 UN	2.719 (69.1)
44	2.750 - 16 UN	2.969 (75.4)
48	3.000 - 16 UN	3.219 (81.8)
61	1.500 - 18 UNEF	1.653 (42.0)

APPLICATION NOTES

- For complete dimensions see the applicable Military Specification.
- Metric dimensions (mm) are in parentheses.
- When maximum cable entry is exceeded, Style 2 will be supplied.
- Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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



AS85049/11 and MS3437B Straight Environmental Backshell

TABLE II: Dash Number and Cable Range (Continued on Page B-33)

Dash No.	Shell Size	Style	E Max	K Ref.	L Max	Cable Range Min	Cable Range Max	M85049/42 Ref.
01	3	1	2.125 (54.0)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
02	3	1	3.125 (79.4)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
03	3	2	2.875 (73.0)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
04	3	2	3.875 (98.4)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
05	8	1	2.125 (54.0)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
06	8	1	3.125 (79.4)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
07	8	2	2.875 (73.0)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
08	8	2	3.875 (98.4)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
09	10	1	2.125 (54.0)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
10	10	1	3.125 (79.4)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
11	10	2	2.875 (73.0)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
12	10	2	3.875 (98.4)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
13	12	1	2.125 (54.0)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
14	12	1	3.125 (79.4)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
15	12	2	2.875 (73.0)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
16	12	2	3.875 (98.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
17	14	1	2.125 (54.0)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.575 (14.6)	10
18	14	1	3.125 (79.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.575 (14.6)	10
19	14	2	2.875 (73.0)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
20	14	2	3.875 (98.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
21	16	1	2.125 (54.0)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.700 (17.8)	12
22	16	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.700 (17.8)	12
23	16	2	2.875 (73.0)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
24	16	2	3.875 (98.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
25	18	1	2.125 (54.0)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
26	18	1	3.125 (79.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
27	18	1	2.125 (54.0)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
28	18	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
29	18	2	2.875 (73.0)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
30	18	2	3.875 (98.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
31	20	1	3.125 (79.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
32	20	1	4.125 (104.8)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
33	20	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
34	20	1	4.125 (104.8)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
35	20	2	3.875 (98.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
36	20	2	4.875 (123.8)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
37	20	2	3.875 (98.4)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
38	20	2	4.875 (123.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
39	22	1	3.125 (79.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
40	22	1	4.125 (104.8)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
41	22	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
42	22	1	4.125 (104.8)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
43	22	1	3.125 (79.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
44	22	1	4.125 (104.8)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
45	22	2	3.875 (98.4)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
46	22	2	4.875 (123.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
47	24	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
48	24	1	4.125 (104.8)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
49	24	1	3.125 (79.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.812 (20.6)	16
50	24	1	4.125 (104.8)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.812 (20.6)	16
51	24	1	3.125 (79.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
52	24	1	4.125 (104.8)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16

Continued on Page B-33

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

AS85049/11 and MS3437B Straight Environmental Backshell



AS85049

B

TABLE II: Dash Number and Cable Range (Continued From Page B-32)

Dash No.	Shell Size	Style	E Max	K Ref.	L Max	Cable Range Min	Cable Range Max	M85049/42 Ref.
53	24	2	3.875 (98.4)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
54	24	2	4.875 (123.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
55	28	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
56	28	1	4.125 (104.8)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
57	28	1	3.125 (79.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
58	28	1	4.125 (104.8)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
59	28	1	3.125 (79.4)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
60	28	1	4.125 (104.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
61	28	1	3.125 (79.4)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
62	28	1	4.125 (104.8)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
63	32	1	3.125 (79.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
64	32	1	4.125 (104.8)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
65	32	1	3.125 (79.4)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
66	32	1	4.125 (104.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
67	32	1	3.125 (79.4)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
68	32	1	4.125 (104.8)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
69	32	1	3.125 (79.4)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
70	32	1	4.125 (104.8)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
71	36	1	4.125 (104.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
72	36	1	5.125 (130.2)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
73	36	1	4.125 (104.8)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
74	36	1	5.125 (130.2)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
75	36	1	4.125 (104.8)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
76	36	1	5.125 (130.2)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
77	36	2	5.000 (127.0)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
78	36	2	6.000 (152.4)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
79	40	1	4.125 (104.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
80	40	1	5.125 (130.2)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
81	40	1	4.125 (104.8)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
82	40	1	5.125 (130.2)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
83	40	1	4.125 (104.8)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
84	40	1	5.125 (130.2)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
85	40	1	4.125 (104.8)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
86	40	1	5.125 (130.2)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
87	44	1	4.125 (104.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
88	44	1	5.125 (130.2)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
89	44	1	4.125 (104.8)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
90	44	1	5.125 (130.2)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
91	44	1	4.125 (104.8)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
92	44	1	5.125 (130.2)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
93	44	1	4.125 (104.8)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
94	44	1	5.125 (130.2)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
95	48	1	4.125 (104.8)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
96	48	1	5.125 (130.2)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
97	48	1	4.125 (104.8)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
98	48	1	5.125 (130.2)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
99	48	1	4.125 (104.8)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
100	48	1	5.125 (130.2)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
101	48	1	4.125 (104.8)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
102	48	1	5.125 (130.2)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
103	61	1	3.125 (79.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
104	61	1	4.125 (104.8)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12

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