

AS85049/8 and MS3188A 90° EMI/RFI Environmental Backshell



AS85049

B

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 I)

M85049/8

- 21

W

Superseded
Part Number

MS3188A 21 C

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 = Aluminum, Nickel Fluorocarbon Polymer
Z = Aluminum, Zinc-Nickel, Black
XS = Stainless Steel, Nickel Fluorocarbon Polymer
ZS = Stainless Steel, Zinc-Nickel, Black

APPLICATION NOTES

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



TABLE I: Dash Number, Cable Range and Dimensions

Dash No.	Shell Size	H Max	J Max	K Ref.	L Max	Cable Range Min	Cable Range Max	M85049/42 Ref.
1	3	.761 (19.3)	1.924 (48.9)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
2	3	1.511 (38.4)	1.444 (36.7)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
3	8	.666 (16.9)	1.324 (33.6)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
4	10	.761 (19.3)	2.044 (51.9)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
5	10	.761 (19.3)	1.444 (36.7)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.375 (9.5)	6
6	12	.766 (19.5)	2.064 (52.4)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
7	12	.766 (19.5)	2.064 (52.4)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
8	12	.766 (19.5)	1.459 (37.1)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.500 (12.7)	10
9	14	.866 (22.0)	2.134 (54.2)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
10	14	.866 (22.0)	1.779 (45.2)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.575 (14.6)	10
11	16	1.051 (26.7)	2.224 (56.5)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
12	16	1.051 (26.7)	1.869 (47.5)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.700 (17.8)	12
13	18	1.141 (29.0)	2.394 (60.8)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
14	18	1.141 (29.0)	2.044 (51.9)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.779 (19.8)	16
15	20	1.141 (29.0)	2.394 (60.8)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
16	20	1.141 (29.0)	2.044 (51.9)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.904 (23.0)	16
17	22	1.291 (32.8)	2.504 (63.6)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
18	22	1.291 (32.8)	2.149 (54.6)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.029 (26.1)	20
19	24	1.291 (32.8)	2.504 (63.6)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
20	24	1.291 (32.8)	2.149 (54.6)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.144 (29.1)	20
21	28	1.391 (35.3)	2.674 (67.9)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16

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

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B

TABLE I: Continued from Page B-23

Dash No.	Shell Size	H Max	J Max	K Ref.	L Max	Cable Range		M85049/42 Ref.
						Min	Max	
22	28	1.391 (35.3)	2.319 (58.9)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
23	32	1.741 (44.2)	2.924 (74.3)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
24	32	1.741 (44.2)	2.924 (74.3)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
25	32	1.741 (44.2)	2.569 (65.3)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
26	36	1.941 (49.3)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
27	36	1.941 (49.3)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
28	36	1.941 (49.3)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.840 (46.7)	32
29	40	2.691 (68.4)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
30	40	2.691 (68.4)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
31	40	2.691 (68.4)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
32	44	2.691 (68.4)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
33	44	2.691 (68.4)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
34	44	2.691 (68.4)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
35	48	2.691 (68.4)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
36	48	2.691 (68.4)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
37	48	2.691 (68.4)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
38	61	1.291 (32.8)	2.504 (63.6)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
39	61	1.291 (32.8)	2.149 (54.6)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.184 (30.1)	20
40	16	1.051 (26.7)	2.224 (56.5)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
41	18	1.141 (29.0)	2.394 (60.8)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
42	18	1.141 (29.0)	2.394 (60.8)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
43	20	1.141 (29.0)	2.394 (60.8)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
44	22	1.291 (32.8)	2.504 (63.6)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
45	22	1.291 (32.8)	2.504 (63.6)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
46	24	1.291 (32.8)	2.504 (63.6)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
47	36	1.941 (49.3)	2.894 (73.5)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
48	40	1.941 (49.3)	2.894 (73.5)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
49*	10	1.516 (38.5)	2.064 (52.4)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
50*	14	1.891 (48.0)	2.394 (60.8)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
51*	16	2.041 (51.8)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
52	18	1.141 (29.0)	2.394 (60.8)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
53	61	1.291 (32.8)	2.149 (54.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
54	20	1.141 (29.0)	2.394 (60.8)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
55*	20	2.141 (54.4)	2.674 (67.9)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
56	22	1.291 (32.8)	2.504 (63.6)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
57	22	1.291 (32.8)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
58*	22	2.141 (54.4)	2.674 (67.9)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
59	24	1.291 (32.8)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
60	28	1.391 (35.3)	2.674 (67.9)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
61	28	1.391 (35.3)	2.674 (67.9)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
62	32	1.741 (44.2)	2.924 (74.3)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
63	36	1.941 (49.3)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
64	36	1.941 (49.3)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
65	40	2.691 (68.4)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
66	40	2.691 (68.4)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
67	44	2.691 (68.4)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
68	44	2.691 (68.4)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
69	48	2.691 (68.4)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
70	48	2.691 (68.4)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
71*	12	1.811 (46.0)	2.224 (56.5)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
72*	18	2.051 (52.1)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
73*	24	2.151 (54.6)	2.674 (67.9)	2.230 (56.6)	2.116 (53.7)	.875 (22.2)	1.250 (31.8)	20
74	14	.866 (22.0)	2.134 (54.2)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	04
75	16	1.051 (26.7)	2.224 (56.5)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	04

* Denotes Style 2

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