

AS85049/23 and MS3189C 45° EMI/RFI Non-Environmental Backshell



AS85049

B

CONNECTOR DESIGNATOR:

A
AS50151 Series AS34001
MIL-DTL-26482 Series II
AS81703 Series III
MIL-DTL-83723 Series I & II
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)

M85049/23

- 21

N

Superseded
Part Number

MS3189C 21 N

Basic
Part No.

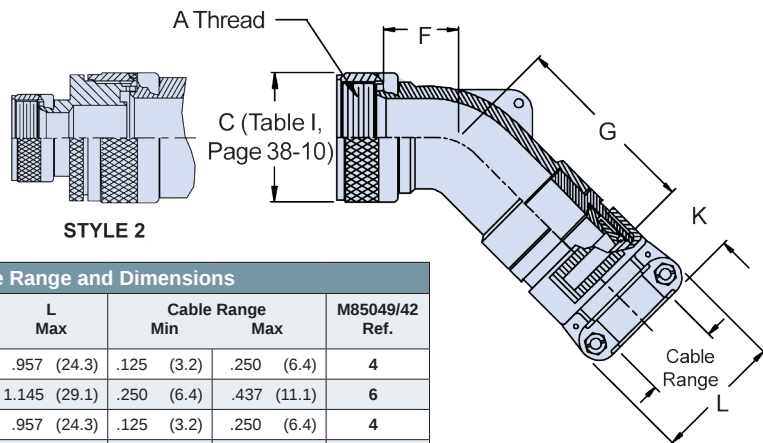
Dash
No.

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



STYLE 2

TABLE II: Dash Number, Cable Range and Dimensions

Dash No.	Shell Size	F Max	G Max	K Ref.	L Max	Cable Range		M85049/42 Ref.
						Min	Max	
1	3	.687 (17.4)	1.915 (48.6)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
2	3	1.500 (38.1)	2.035 (51.7)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
3	8	.625 (15.9)	1.307 (33.2)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
4	10	.687 (17.4)	1.975 (50.2)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
5	10	.687 (17.4)	1.370 (34.8)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.375 (9.5)	6
6	12	.750 (19.1)	2.035 (51.7)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
7	12	.750 (19.1)	2.035 (51.7)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
8	12	.750 (19.1)	2.035 (51.7)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.500 (12.7)	10
9	14	.812 (20.6)	2.125 (54.0)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
10	14	.812 (20.6)	1.780 (45.2)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.575 (14.6)	10
11	16	.906 (23.0)	2.235 (56.8)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
12	16	.906 (23.0)	1.875 (47.6)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.700 (17.8)	12
13	18	1.093 (27.8)	2.425 (61.6)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
14	18	1.093 (27.8)	2.062 (52.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.779 (19.8)	16
15	20	1.093 (27.8)	2.425 (61.6)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
16	20	1.093 (27.8)	2.062 (52.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.904 (23.0)	16
17	22	1.188 (30.2)	2.575 (65.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
18	22	1.188 (30.2)	2.218 (56.3)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.029 (26.1)	20
19	24	1.188 (30.2)	2.575 (65.4)	1.069 (27.2)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
20	24	1.188 (30.2)	2.218 (56.3)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.144 (29.1)	20
21	28	1.312 (33.3)	2.625 (66.7)	1.156 (33.7)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16

Continued on Page B-44

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.

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

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B

TABLE II: Continued from Page B-43

Dash No.	Shell Size	F Max	G Max	K Ref.	L Max	Cable Range		M85049/42 Ref.
						Min	Max	
22	28	1.312 (33.3)	2.281 (57.9)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
23	32	1.375 (34.9)	2.725 (69.2)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
24	32	1.375 (34.9)	2.725 (69.2)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
25	32	1.375 (34.9)	2.500 (63.5)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
26	36	1.406 (35.7)	2.815 (71.5)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
27	36	1.406 (35.7)	2.815 (71.5)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
28	36	1.406 (35.7)	2.469 (62.7)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.840 (46.7)	32
29	40	2.156 (54.8)	2.815 (71.5)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
30	40	2.156 (54.8)	2.815 (71.5)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
31	40	2.156 (54.8)	2.469 (62.7)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
32	44	2.156 (54.8)	2.815 (71.5)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
33	44	2.156 (54.8)	2.815 (71.5)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
34	44	2.156 (54.8)	2.469 (62.7)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
35	48	2.156 (54.8)	2.815 (71.5)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
36	48	2.156 (54.8)	2.815 (71.5)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
37	48	2.156 (54.8)	2.469 (62.7)	1.830 (46.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
38	61	1.188 (30.2)	2.575 (65.4)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
39	61	1.188 (30.2)	2.218 (56.3)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.184 (30.1)	20
40	16	.906 (23.0)	2.235 (56.8)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
41	18	1.093 (27.8)	2.425 (61.6)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
42	18	1.093 (27.8)	2.425 (61.6)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
43	20	1.093 (27.8)	2.425 (61.6)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
44	22	1.188 (30.2)	2.575 (65.4)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
45	22	1.188 (30.2)	2.575 (65.4)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
46	24	1.188 (30.2)	2.575 (65.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
47	36	1.406 (35.7)	2.815 (71.5)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
48	40	2.156 (54.8)	2.815 (71.5)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
49*	10	1.500 (38.1)	2.035 (51.7)	1.027 (26.1)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
50*	14	1.842 (46.8)	2.425 (61.6)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
51*	16	1.938 (49.2)	2.575 (65.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
52	18	1.093 (27.8)	2.425 (61.6)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
53	61	1.188 (30.2)	2.575 (65.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
54	20	1.093 (27.8)	2.425 (61.6)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
55*	20	2.061 (52.3)	2.625 (66.7)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
56	22	1.188 (30.2)	2.575 (65.4)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
57	22	1.188 (30.2)	2.575 (65.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
58*	22	2.061 (52.3)	2.625 (66.7)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
59	24	1.188 (30.2)	2.575 (65.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
60	28	1.312 (33.3)	2.625 (66.7)	1.059 (26.9)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
61	28	1.312 (33.3)	2.625 (66.7)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
62	32	1.375 (34.9)	2.725 (69.2)	1.500 (38.1)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
63	36	1.406 (35.7)	2.815 (71.5)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
64	36	1.406 (35.7)	2.815 (71.5)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
65	40	2.156 (54.8)	2.815 (71.5)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
66	40	2.156 (54.8)	2.815 (71.5)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
67	44	2.156 (54.8)	2.815 (71.5)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
68	44	2.156 (54.8)	2.815 (71.5)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
69	48	2.156 (54.8)	2.815 (71.5)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
70	48	2.156 (54.8)	2.815 (71.5)	1.781 (45.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
71*	12	1.684 (42.8)	2.236 (56.8)	1.027 (26.1)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
72*	18	1.938 (49.2)	2.575 (65.4)	1.156 (29.4)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
73*	24	2.061 (52.3)	2.625 (66.7)	1.375 (34.9)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
74	14	.812 (20.6)	2.125 (54.0)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	04
75	16	.906 (23.0)	2.235 (56.8)	1.027 (26.1)	.957 (24.3)	.125 (3.2)	.312 (7.9)	04

* Denotes Style 2

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

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MS3189C55N	MS3189C60N	MS3189C64C	MS3189C60A	MS3189C29A	MS3189C38N	MS3189C02C
MS3189C28C	MS3189C39A	MS3189C22N	MS3189C41N	MS3189C01A	MS3189C40N	MS3189C03N
MS3189C28A	MS3189C13N	MS3189C14N	MS3189C24N	MS3189C33A	MS3189C35N	MS3189C10N
MS3189C47A	MS3189C38C	MS3189C45C	MS3189C42A	MS3189C02A	MS3189C50N	MS3189C44N
MS3189C48A	MS3189C25A	MS3189C48N	MS3189C29N	MS3189C25N	MS3189C37C	MS3189C38A
MS3189C46A	MS3189C29C	MS3189C32C	MS3189C05C	MS3189C32A	MS3189C45N	MS3189C34C
MS3189C26A	MS3189C26N	MS3189C40C	MS3189C31A	MS3189C06N	MS3189C42C	MS3189C48C
MS3189C46N	MS3189C43N	MS3189C34N	MS3189C32N	MS3189C46C	MS3189C13A	MS3189C20N
MS3189C07W	MS3189C31N	MS3189C15N	MS3189C18A	MS3189C18C	MS3189C37N	MS3189C36N
MS3189C01C	MS3189C02N	MS3189C05A	MS3189C01N	MS3189C07A	MS3189C34A	MS3189C36C
MS3189C37A	MS3189C14A	MS3189C33C	MS3189C41C	MS3189C43C	MS3189C25C	MS3189C41A
MS3189C69N	MS3189C72N	MS3189C73C	MS3189C56N	MS3189C65C	MS3189C74N	MS3189C67C
MS3189C68A	MS3189C66A	MS3189C71A	MS3189C70N	MS3189C53A	MS3189C64A	MS3189C65N
MS3189C56A	MS3189C54C	MS3189C59A	MS3189C65A	MS3189C66C	MS3189C63N	MS3189C69A
MS3189C72C	MS3189C54A					