

M85049/5 Step-Down Environmental Backshell - Style 1

R Y85049 Series • M85049 Type Backshells



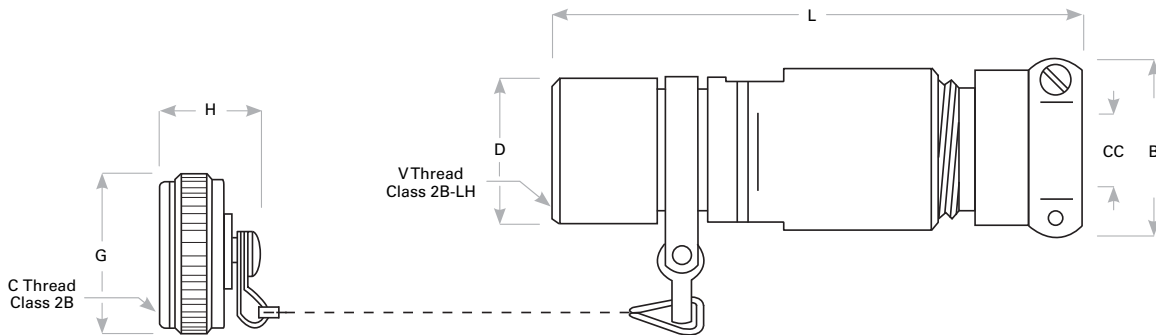
R Y85049/5 Compatibility

Compatible Connector Series

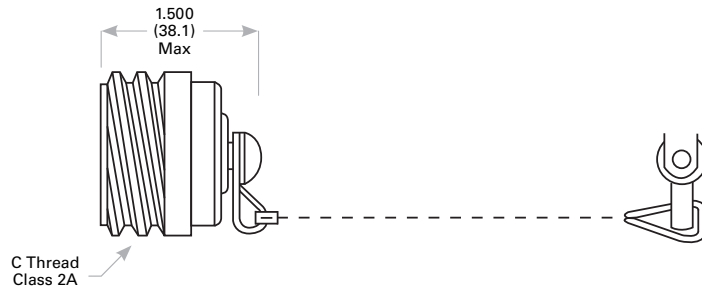
MIL-DTL-22992 Classes C, J, & R

R Y85049/5 W 12 A 1

- 1 **BASIC PART NUMBER**
R Y85049/5
M85049/5 Style 1 type
Step-down environmental backshell
(Supersedes MS17341/MS90570 Style 1)
- 2 **MATERIAL & FINISH**
A Aluminum, black anodize
W Aluminum, olive drab cadmium
X Aluminum, nickel fluorocarbon polymer
Y Aluminum, pure dense electrodeposited aluminum
Z Aluminum, zinc-nickel
- 3 **DASH NO.**
See dimensions table below
- 4 **TYPE**
A Plug cap (For use with MS17344 type connectors)
B Receptacle Cap (For use with MS17343, MS17345, & MS17347 type connectors)
- 5 **STYLE**
1 Style 1



Type B With Receptacle Cover



Type A With Plug Cover

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Rev. 1825

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Ry85049 Series • M85049 Type Backshells

RY85049/5 Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B-LH	D	L Max	B	G Max	C Thread Class 2 (A & B)	H Max	CC Cable Clearance	
									Min	Max
1	12	0.7500 - 20 UNEF	0.933 (23.7)	3.182 (80.8)	0.938 (23.8)	1.094 (27.8)	0.875-0.1P-0.2L-DS	0.765 (19.4)	0.156 (4.0)	0.250 (6.4)
2	18	1.1250 - 18 UNEF	1.307 (33.2)	3.901 (99.1)	1.062 (27.0)	1.469 (37.3)	1.250-0.1P-0.2L-DS	0.980 (24.9)	0.281 (7.1)	0.375 (9.5)
3	18	1.1250 - 18 UNEF	1.307 (33.2)	3.932 (99.9)	1.125 (28.6)	1.469 (37.3)	1.250-0.1P-0.2L-DS	0.980 (24.9)	0.281 (7.1)	0.375 (9.5)
4	18	1.1250 - 18 UNEF	1.307 (33.2)	3.901 (99.1)	1.062 (27.0)	1.469 (37.3)	1.250-0.1P-0.2L-DS	0.980 (24.9)	0.188 (4.8)	0.281 (7.1)
5	18	1.1250 - 18 UNEF	1.307 (33.2)	4.177 (106.1)	1.375 (34.9)	1.469 (37.3)	1.250-0.1P-0.2L-DS	0.980 (24.9)	0.511 (13.0)	0.605 (15.4)
6	18	1.1250 - 18 UNEF	1.307 (33.2)	4.177 (106.1)	1.375 (34.9)	1.469 (37.3)	1.250-0.1P-0.2L-DS	0.980 (24.9)	0.436 (11.1)	0.530 (13.5)
7	20	1.2500 - 18 UNEF	1.433 (36.4)	4.489 (114.0)	1.562 (39.7)	1.562 (39.7)	1.375-0.1P-0.2L-DS	0.980 (24.9)	0.605 (15.4)	0.699 (17.8)
8	20	1.2500 - 18 UNEF	1.433 (36.4)	4.489 (114.0)	1.562 (39.7)	1.562 (39.7)	1.375-0.1P-0.2L-DS	0.980 (24.9)	0.361 (9.2)	0.455 (11.6)
9	20	1.2500 - 18 UNEF	1.433 (36.4)	4.306 (109.4)	1.375 (34.9)	1.562 (39.7)	1.375-0.1P-0.2L-DS	0.980 (24.9)	0.511 (13.0)	0.605 (15.4)
10	22	1.3750 - 18 UNEF	1.557 (39.5)	4.584 (116.4)	1.688 (42.9)	1.688 (42.9)	1.500-0.1P-0.2L-DS	0.980 (24.9)	0.449 (11.4)	0.562 (14.3)
11	22	1.3750 - 18 UNEF	1.557 (39.5)	4.306 (109.4)	1.375 (34.9)	1.688 (42.9)	1.500-0.1P-0.2L-DS	0.980 (24.9)	0.311 (7.9)	0.405 (10.3)
12	22	1.3750 - 18 UNEF	1.557 (39.5)	4.584 (116.4)	1.688 (42.9)	1.688 (42.9)	1.500-0.1P-0.2L-DS	0.980 (24.9)	0.715 (18.2)	0.828 (21.0)
13	24	1.6250 - 18 UNEF	1.807 (45.9)	4.647 (118.0)	1.812 (46.0)	1.938 (49.2)	1.750-0.1P-0.2L-DS	0.980 (24.9)	0.787 (20.0)	0.900 (22.9)
14	24	1.6250 - 18 UNEF	1.807 (45.9)	4.647 (118.0)	1.812 (46.0)	1.938 (49.2)	1.750-0.1P-0.2L-DS	0.980 (24.9)	0.517 (13.1)	0.630 (16.0)
15	24	1.6250 - 18 UNEF	1.807 (45.9)	4.647 (118.0)	1.812 (46.0)	1.938 (49.2)	1.750-0.1P-0.2L-DS	0.980 (24.9)	0.637 (16.2)	0.750 (19.1)
16	24	1.6250 - 18 UNEF	1.807 (45.9)	4.647 (118.0)	1.812 (46.0)	1.938 (49.2)	1.750-0.1P-0.2L-DS	0.980 (24.9)	0.857 (21.8)	0.970 (24.6)
17	24	1.6250 - 18 UNEF	1.807 (45.9)	4.542 (115.4)	1.688 (42.9)	1.938 (49.2)	1.750-0.1P-0.2L-DS	0.980 (24.9)	0.715 (18.2)	0.828 (21.0)
18	24	1.6250 - 18 UNEF	1.807 (45.9)	4.647 (118.0)	1.812 (46.0)	1.938 (49.2)	1.750-0.1P-0.2L-DS	0.980 (24.9)	0.692 (17.6)	0.805 (20.4)
19	28	1.8750 - 16 UN	2.057 (52.2)	4.896 (124.4)	2.125 (54.0)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.755 (19.2)	0.880 (22.4)
20	28	1.8750 - 16 UN	2.057 (52.2)	4.896 (124.4)	2.125 (54.0)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.984 (25.0)	1.109 (28.2)
21	28	1.8750 - 16 UN	2.057 (52.2)	4.647 (118.0)	1.812 (46.0)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.637 (16.2)	0.750 (19.1)
22	28	1.8750 - 16 UN	2.057 (52.2)	4.229 (107.4)	1.125 (28.6)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.281 (7.1)	0.375 (9.5)
23	28	1.8750 - 16 UN	2.057 (52.2)	4.647 (118.0)	1.812 (46.0)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.857 (21.8)	0.970 (24.6)
24	28	1.8750 - 16 UN	2.057 (52.2)	4.896 (124.4)	2.125 (54.0)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.875 (22.2)	1.000 (25.4)
25	28	1.8750 - 16 UN	2.057 (52.2)	4.431 (112.5)	1.375 (34.9)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.436 (11.1)	0.530 (13.5)
26	28	1.8750 - 16 UN	2.057 (52.2)	4.647 (118.0)	1.812 (46.0)	2.219 (56.4)	2.000-0.1P-0.2L-DS	0.980 (24.9)	0.567 (14.4)	0.680 (17.3)
27	32	2.0625 - 16 UNS	2.307 (58.6)	4.896 (124.4)	2.125 (54.0)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.930 (23.6)	1.055 (26.8)
28	32	2.0625 - 16 UNS	2.307 (58.6)	4.959 (126.0)	2.469 (62.7)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	1.105 (28.1)	1.230 (31.2)
29	32	2.0625 - 16 UNS	2.307 (58.6)	4.647 (118.0)	1.812 (46.0)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.637 (16.2)	0.750 (19.1)
30	32	2.0625 - 16 UNS	2.307 (58.6)	4.896 (124.4)	2.125 (54.0)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.755 (19.2)	0.880 (22.4)
31	32	2.0625 - 16 UNS	2.307 (58.6)	4.896 (124.4)	2.125 (54.0)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.984 (25.0)	1.109 (28.2)
32	32	2.0625 - 16 UNS	2.307 (58.6)	4.647 (118.0)	1.812 (46.0)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.857 (21.8)	0.970 (24.6)
33	32	2.0625 - 16 UNS	2.307 (58.6)	4.276 (108.6)	1.125 (28.6)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.281 (7.1)	0.375 (9.5)
34	32	2.0625 - 16 UNS	2.307 (58.6)	4.431 (112.5)	1.375 (34.9)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	0.436 (11.1)	0.530 (13.5)
35	32	2.0625 - 16 UNS	2.307 (58.6)	4.959 (126.0)	2.469 (62.7)	2.469 (62.7)	2.250-0.1P-0.2L-DS	0.980 (24.9)	1.005 (25.5)	1.130 (28.7)
36	36	2.3125 - 16 UNS	2.557 (64.9)	4.959 (126.0)	2.469 (62.7)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	1.185 (30.1)	1.310 (33.3)
37	36	2.3125 - 16 UNS	2.557 (64.9)	4.896 (124.4)	2.125 (54.0)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	0.984 (25.0)	1.109 (28.2)
38	36	2.3125 - 16 UNS	2.557 (64.9)	5.021 (127.5)	2.625 (66.7)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	1.250 (31.8)	1.375 (34.9)
39	36	2.3125 - 16 UNS	2.557 (64.9)	4.959 (126.0)	2.469 (62.7)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	1.055 (26.8)	1.180 (30.0)
40	36	2.3125 - 16 UNS	2.557 (64.9)	5.021 (127.5)	2.625 (66.7)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	1.320 (33.5)	1.445 (36.7)
41	36	2.3125 - 16 UNS	2.557 (64.9)	4.651 (118.1)	1.812 (46.0)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	0.857 (21.8)	0.970 (24.6)
42	36	2.3125 - 16 UNS	2.557 (64.9)	4.959 (126.0)	2.469 (62.7)	2.719 (69.1)	2.500-0.1P-0.2L-DS	0.980 (24.9)	1.105 (28.1)	1.230 (31.2)
43	40	2.6250 - 16 UN	2.870 (72.9)	6.354 (161.4)	3.171 (80.5)	2.969 (75.4)	2.750-0.1P-0.2L-DS	0.980 (24.9)	1.815 (46.1)	1.940 (49.3)
44	40	2.6250 - 16 UN	2.870 (72.9)	6.354 (161.4)	3.171 (80.5)	2.969 (75.4)	2.750-0.1P-0.2L-DS	0.980 (24.9)	1.700 (43.2)	1.825 (46.4)
45	40	2.6250 - 16 UN	2.870 (72.9)	6.354 (161.4)	3.171 (80.5)	2.969 (75.4)	2.750-0.1P-0.2L-DS	0.980 (24.9)	1.605 (40.8)	1.730 (43.9)
46	40	2.6250 - 16 UN	2.870 (72.9)	6.057 (153.8)	2.953 (75.0)	2.969 (75.4)	2.750-0.1P-0.2L-DS	0.980 (24.9)	1.531 (38.9)	1.656 (42.1)
47	44	2.8750 - 16 UN	3.120 (79.2)	6.345 (161.2)	3.375 (85.7)	3.217 (81.7)	3.000-0.1P-0.2L-DS	0.980 (24.9)	1.867 (47.4)	2.000 (50.8)
48	44	2.8750 - 16 UN	3.120 (79.2)	5.266 (133.8)	3.171 (80.5)	3.217 (81.7)	3.000-0.1P-0.2L-DS	0.980 (24.9)	1.775 (45.1)	1.900 (48.3)

Dimensions are in inches (mm).

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