AS81511/14
Straight EMI/RFI Environmental Backshell A & B

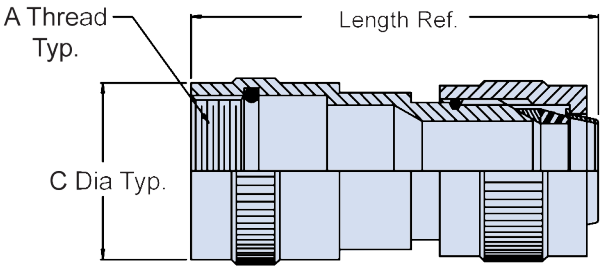
CONNECTOR DESIGNATOR:	
J	AS81511 Series I, II, III & IV

Basic Part Number		Dash Number *(Table I)*
M81511/14	-	050

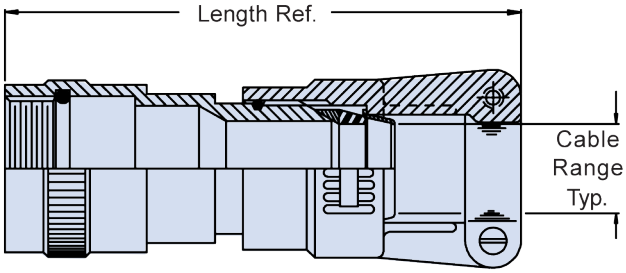
TABLE I: Dash Number and Dimensions

Dash No.	Shell Size	Function	A Thread Class 2B	Length Ref.	Cable Range Min	Cable Range Max
001	08	A	.500 - 28 UNEF	2.22 (56.4)	.062 (1.6)	.125 (3.2)
002	08	A	.500 - 28 UNEF	2.22 (56.4)	.125 (3.2)	.250 (6.4)
003	08	B	.500 - 28 UNEF	2.72 (69.1)	.062 (1.6)	.125 (3.2)
004	08	B	.500 - 28 UNEF	2.72 (69.1)	.125 (3.2)	.250 (6.4)
005	08	A	.500 - 28 UNEF	2.72 (69.1)	.062 (1.6)	.125 (3.2)
006	08	A	.500 - 28 UNEF	2.72 (69.1)	.125 (3.2)	.250 (6.4)
007	08	B	.500 - 28 UNEF	3.22 (81.8)	.062 (1.6)	.125 (3.2)
008	08	B	.500 - 28 UNEF	3.22 (81.8)	.125 (3.2)	.250 (6.4)
009	10	A	.625 - 28 UN	2.22 (56.4)	.125 (3.2)	.250 (6.4)
010	10	A	.625 - 28 UN	2.22 (56.4)	.250 (6.4)	.375 (9.5)
011	10	A	.625 - 28 UN	2.22 (56.4)	.375 (9.5)	.500 (12.7)
012	10	B	.625 - 28 UN	2.72 (69.1)	.125 (3.2)	.250 (6.4)
013	10	B	.625 - 28 UN	2.72 (69.1)	.250 (6.4)	.375 (9.5)
014	10	B	.625 - 28 UN	2.72 (69.1)	.375 (9.5)	.500 (12.7)
015	10	A	.625 - 28 UN	2.72 (69.1)	.125 (3.2)	.250 (6.4)
016	10	A	.625 - 28 UN	2.72 (69.1)	.250 (6.4)	.375 (9.5)
017	10	A	.625 - 28 UN	2.72 (69.1)	.375 (9.5)	.500 (12.7)
018	10	B	.625 - 28 UN	3.22 (81.8)	.125 (3.2)	.250 (6.4)
019	10	B	.625 - 28 UN	3.22 (81.8)	.250 (6.4)	.375 (9.5)
020	10	B	.625 - 28 UN	3.22 (81.8)	.375 (9.5)	.500 (12.7)
021	14	A	.875 - 28 UN	2.22 (56.4)	.250 (6.4)	.375 (9.5)
022	14	A	.875 - 28 UN	2.22 (56.4)	.375 (9.5)	.500 (12.7)
023	14	A	.875 - 28 UN	2.22 (56.4)	.500 (12.7)	.625 (15.9)
024	14	B	.875 - 28 UN	2.72 (69.1)	.250 (6.4)	.375 (9.5)
025	14	B	.875 - 28 UN	2.72 (69.1)	.375 (9.5)	.500 (12.7)
026	14	B	.875 - 28 UN	2.72 (69.1)	.500 (12.7)	.625 (15.9)
027	14	A	.875 - 28 UN	2.72 (69.1)	.250 (6.4)	.375 (9.5)
028	14	A	.875 - 28 UN	2.72 (69.1)	.375 (9.5)	.500 (12.7)
029	14	A	.875 - 28 UN	2.72 (69.1)	.500 (12.7)	.625 (15.9)
030	14	B	.875 - 28 UN	3.22 (81.8)	.250 (6.4)	.375 (9.5)
031	14	B	.875 - 28 UN	3.22 (81.8)	.375 (9.5)	.500 (12.7)
032	14	B	.875 - 28 UN	3.22 (81.8)	.500 (12.7)	.625 (15.9)
033	16	A	1.000 - 28 UN	2.22 (56.4)	.250 (6.4)	.375 (9.5)
034	16	A	1.000 - 28 UN	2.22 (56.4)	.375 (9.5)	.500 (12.7)
035	16	A	1.000 - 28 UN	2.22 (56.4)	.500 (12.7)	.625 (15.9)
036	16	B	1.000 - 28 UN	2.72 (69.1)	.250 (6.4)	.375 (9.5)
037	16	B	1.000 - 28 UN	2.72 (69.1)	.375 (9.5)	.500 (12.7)

Table I Continued on Page F-4



Function "A" Adapter Assembly



Function "B" Adapter Assembly

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. For functions C and D see page F-5.

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

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Straight EMI/RFI Environmental Backshell A & B

TABLE I: Dash Number and Dimensions (Continued from Page F-3)

Dash No.	Shell Size	Function	A Thread Class 2B	C Dia Max	Length Ref.	Cable Range Min	Cable Range Max
038	16	B	1.000 - 28 UN	1.056 (26.8)	2.72 (69.1)	.500 (12.7)	.625 (15.9)
039	16	A	1.000 - 28 UN	1.056 (26.8)	2.72 (69.1)	.250 (6.4)	.375 (9.5)
040	16	A	1.000 - 28 UN	1.056 (26.8)	2.72 (69.1)	.375 (9.5)	.500 (12.7)
041	16	A	1.000 - 28 UN	1.056 (26.8)	2.72 (69.1)	.500 (12.7)	.625 (15.9)
042	16	B	1.000 - 28 UN	1.056 (26.8)	3.22 (81.8)	.250 (6.4)	.375 (9.5)
043	16	B	1.000 - 28 UN	1.056 (26.8)	3.22 (81.8)	.375 (9.5)	.500 (12.7)
044	16	B	1.000 - 28 UN	1.056 (26.8)	3.22 (81.8)	.500 (12.7)	.625 (15.9)
045	18	A	1.125 - 28 UN	1.180 (30.0)	2.22 (56.4)	.375 (9.5)	.500 (12.7)
046	18	A	1.125 - 28 UN	1.180 (30.0)	2.22 (56.4)	.500 (12.7)	.625 (15.9)
047	18	A	1.125 - 28 UN	1.180 (30.0)	2.22 (56.4)	.625 (15.9)	.750 (19.1)
048	18	B	1.125 - 28 UN	1.180 (30.0)	2.72 (69.1)	.375 (9.5)	.500 (12.7)
049	18	B	1.125 - 28 UN	1.180 (30.0)	2.72 (69.1)	.500 (12.7)	.625 (15.9)
050	18	B	1.125 - 28 UN	1.180 (30.0)	2.72 (69.1)	.625 (15.9)	.750 (19.1)
051	18	A	1.125 - 28 UN	1.180 (30.0)	2.72 (69.1)	.375 (9.5)	.500 (12.7)
052	18	A	1.125 - 28 UN	1.180 (30.0)	2.72 (69.1)	.500 (12.7)	.625 (15.9)
053	18	A	1.125 - 28 UN	1.180 (30.0)	2.72 (69.1)	.625 (15.9)	.750 (19.1)
054	18	B	1.125 - 28 UN	1.180 (30.0)	3.22 (81.8)	.375 (9.5)	.500 (12.7)
055	18	B	1.125 - 28 UN	1.180 (30.0)	3.22 (81.8)	.500 (12.7)	.625 (15.9)
056	18	B	1.125 - 28 UN	1.180 (30.0)	3.22 (81.8)	.625 (15.9)	.750 (19.1)
113	20	A	1.250 - 28 UN	1.305 (33.1)	2.30 (58.4)	.500 (12.7)	.625 (15.9)
114	20	A	1.250 - 28 UN	1.305 (33.1)	2.30 (58.4)	.625 (15.9)	.750 (19.1)
115	20	A	1.250 - 28 UN	1.305 (33.1)	2.30 (58.4)	.750 (19.1)	.875 (22.2)
116	20	B	1.250 - 28 UN	1.305 (33.1)	2.80 (71.1)	.500 (12.7)	.625 (15.9)
117	20	B	1.250 - 28 UN	1.305 (33.1)	2.80 (71.1)	.625 (15.9)	.750 (19.1)
118	20	B	1.250 - 28 UN	1.305 (33.1)	2.80 (71.1)	.750 (19.1)	.875 (22.2)
119	20	A	1.250 - 28 UN	1.305 (33.1)	2.80 (71.1)	.500 (12.7)	.625 (15.9)
120	20	A	1.250 - 28 UN	1.305 (33.1)	2.80 (71.1)	.625 (15.9)	.750 (19.1)
121	20	A	1.250 - 28 UN	1.305 (33.1)	2.80 (71.1)	.750 (19.1)	.875 (22.2)
122	20	B	1.250 - 28 UN	1.305 (33.1)	3.30 (83.8)	.500 (12.7)	.625 (15.9)
123	20	B	1.250 - 28 UN	1.305 (33.1)	3.30 (83.8)	.625 (15.9)	.750 (19.1)
124	20	B	1.250 - 28 UN	1.305 (33.1)	3.30 (83.8)	.750 (19.1)	.875 (22.2)
125	22	A	1.375 - 28 UN	1.430 (36.3)	2.30 (58.4)	.625 (15.9)	.750 (19.1)
126	22	A	1.375 - 28 UN	1.430 (36.3)	2.30 (58.4)	.750 (19.1)	.875 (22.2)
127	22	A	1.375 - 28 UN	1.430 (36.3)	2.30 (58.4)	.875 (22.2)	1.000 (25.4)
128	22	B	1.375 - 28 UN	1.430 (36.3)	2.80 (71.1)	.625 (15.9)	.750 (19.1)
129	22	B	1.375 - 28 UN	1.430 (36.3)	2.80 (71.1)	.750 (19.1)	.875 (22.2)
130	22	B	1.375 - 28 UN	1.430 (36.3)	2.80 (71.1)	.875 (22.2)	1.000 (25.4)
131	22	A	1.375 - 28 UN	1.430 (36.3)	2.80 (71.1)	.625 (15.9)	.750 (19.1)
132	22	A	1.375 - 28 UN	1.430 (36.3)	2.80 (71.1)	.750 (19.1)	.875 (22.2)
133	22	A	1.375 - 28 UN	1.430 (36.3)	2.80 (71.1)	.875 (22.2)	1.000 (25.4)
134	22	B	1.375 - 28 UN	1.430 (36.3)	3.30 (83.8)	.625 (15.9)	.750 (19.1)
135	22	B	1.375 - 28 UN	1.430 (36.3)	3.30 (83.8)	.750 (19.1)	.875 (22.2)
136	22	B	1.375 - 28 UN	1.430 (36.3)	3.30 (83.8)	.875 (22.2)	1.000 (25.4)
137	24	A	1.500 - 28 UN	1.555 (39.5)	2.30 (58.4)	.750 (19.1)	.875 (22.2)
138	24	A	1.500 - 28 UN	1.555 (39.5)	2.30 (58.4)	.875 (22.2)	1.000 (25.4)
139	24	A	1.500 - 28 UN	1.555 (39.5)	2.30 (58.4)	1.000 (25.4)	1.125 (28.6)
140	24	B	1.500 - 28 UN	1.555 (39.5)	2.80 (71.1)	.750 (19.1)	.875 (22.2)
141	24	B	1.500 - 28 UN	1.555 (39.5)	2.80 (71.1)	.875 (22.2)	1.000 (25.4)
142	24	B	1.500 - 28 UN	1.555 (39.5)	2.80 (71.1)	1.000 (25.4)	1.125 (28.6)
143	24	A	1.500 - 28 UN	1.555 (39.5)	2.80 (71.1)	.750 (19.1)	.875 (22.2)
144	24	A	1.500 - 28 UN	1.555 (39.5)	2.80 (71.1)	.875 (22.2)	1.000 (25.4)
145	24	A	1.500 - 28 UN	1.555 (39.5)	2.80 (71.1)	1.000 (25.4)	1.125 (28.6)
146	24	B	1.500 - 28 UN	1.555 (39.5)	3.30 (83.8)	.750 (19.1)	.875 (22.2)
147	24	B	1.500 - 28 UN	1.555 (39.5)	3.30 (83.8)	.875 (22.2)	1.000 (25.4)
148	24	B	1.500 - 28 UN	1.555 (39.5)	3.30 (83.8)	1.000 (25.4)	1.125 (28.6)

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