



M81511/14 Functions A and B RFI Environmental Backshells

Glenair Connector
Designator J

M81511/14-050

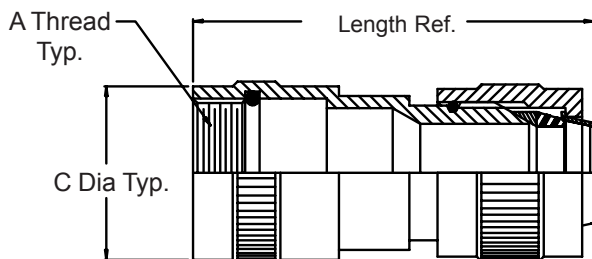
Basic Part No.

Dash No.

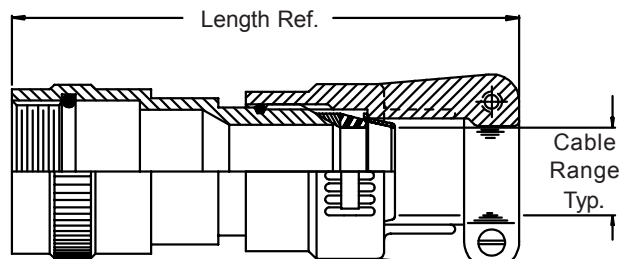
MIL-C-81511

Inactive for New Design

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. For Functions C and D see page 38-2.



Function "A" Adapter Assembly



Function "B" Adapter Assembly

TABLE I

Dash No.	Shell Size	Function	A Thread Class 2B	C Dia. Max	Length Ref.	Cable Range	
						Min	Max
001	08	A	.500 - 28 UNEF			.062 (1.6)	.125 (3.2)
002	08	A	.500 - 28 UNEF	.555 (14.1)	2.22 (56.4)	.125 (3.2)	.250 (6.4)
003	08	B	.500 - 28 UNEF			.062 (1.6)	.125 (3.2)
004	08	B	.500 - 28 UNEF	.555 (14.1)	2.72 (69.1)	.125 (3.2)	.250 (6.4)
005	08	A	.500 - 28 UNEF			.062 (1.6)	.125 (3.2)
006	08	A	.500 - 28 UNEF	.555 (14.1)	2.72 (69.1)	.125 (3.2)	.250 (6.4)
007	08	B	.500 - 28 UNEF			.062 (1.6)	.125 (3.2)
008	08	B	.500 - 28 UNEF	.555 (14.1)	3.22 (81.8)	.125 (3.2)	.250 (6.4)
009	10	A	.625 - 28 UN			.125 (3.2)	.250 (6.4)
010	10	A	.625 - 28 UN	.680 (17.3)	2.22 (56.4)	.250 (6.4)	.375 (9.5)
011	10	A	.625 - 28 UN			.375 (9.5)	.500 (12.7)
012	10	B	.625 - 28 UN	.680 (17.3)	2.72 (69.1)	.125 (3.2)	.250 (6.4)
013	10	B	.625 - 28 UN			.250 (6.4)	.375 (9.5)
014	10	B	.625 - 28 UN	.680 (17.3)	2.72 (69.1)	.375 (9.5)	.500 (12.7)
015	10	A	.625 - 28 UN			.125 (3.2)	.250 (6.4)
016	10	A	.625 - 28 UN	.680 (17.3)	2.72 (69.1)	.250 (6.4)	.375 (9.5)
017	10	A	.625 - 28 UN			.375 (9.5)	.500 (12.7)
018	10	B	.625 - 28 UN	.680 (17.3)	3.22 (81.8)	.125 (3.2)	.250 (6.4)
019	10	B	.625 - 28 UN			.250 (6.4)	.375 (9.5)
020	10	B	.625 - 28 UN	.680 (17.3)	3.22 (81.8)	.375 (9.5)	.500 (12.7)
021	14	A	.875 - 28 UN			.250 (6.4)	.375 (9.5)
022	14	A	.875 - 28 UN	.930 (23.6)	2.22 (56.4)	.375 (9.5)	.500 (12.7)
023	14	A	.875 - 28 UN			.500 (12.7)	.625 (15.9)
024	14	B	.875 - 28 UN	.930 (23.6)	2.72 (69.1)	.250 (6.4)	.375 (9.5)
025	14	B	.875 - 28 UN			.375 (9.5)	.500 (12.7)
026	14	B	.875 - 28 UN	.930 (23.6)	2.72 (69.1)	.500 (12.7)	.625 (15.9)
027	14	A	.875 - 28 UN			.250 (6.4)	.375 (9.5)
028	14	A	.875 - 28 UN	.930 (23.6)	2.72 (69.1)	.375 (9.5)	.500 (12.7)
029	14	A	.875 - 28 UN			.500 (12.7)	.625 (15.9)
030	14	B	.875 - 28 UN	.930 (23.6)	3.22 (81.8)	.250 (6.4)	.375 (9.5)
031	14	B	.875 - 28 UN			.375 (9.5)	.500 (12.7)
032	14	B	.875 - 28 UN	.930 (23.6)	3.22 (81.8)	.500 (12.7)	.625 (15.9)
033	16	A	1.000 - 28 UN			.250 (6.4)	.375 (9.5)
034	16	A	1.000 - 28 UN	1.056 (26.8)	2.22 (56.4)	.375 (9.5)	.500 (12.7)
035	16	A	1.000 - 28 UN			.500 (12.7)	.625 (15.9)
036	16	B	1.000 - 28 UN	1.056 (26.8)	2.72 (69.1)	.250 (6.4)	.375 (9.5)
037	16	B	1.000 - 28 UN			.375 (9.5)	.500 (12.7)

Table I Continued on Page 39-7

M81511/14 Functions A and B RFI Environmental Backshells



EMI/RFI
Environmental
Backshells

TABLE I (Continued From Page 39-6)

Dash No.	Shell Size	Function	A Thread Class 2B	C Dia. Max	Length Ref.	Cable Range			
						Min		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)	

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. For Functions C and D see page 38-2.