



SRC Mil-C-17 Coax Cable Assemblies



RG & Mil-C-17 Replacement	RG6	RG8	RG58	RG59	RG142
Center Conductor	Copper Clad Steel	Bare Copper	Bare Copper	Copper Clad Steel	Silver Plated Copper Clad Steel
Dimension in. (mm)	.0285 (.72)	.0888 (2.26)	.032 (.81)	.0226 (.55)	.037 (.94)
Dielectric	PE .185	PE .285	PE .116	PE .146	PTFE .116
Jacket	PVC-II .332	PVC-IIA .405	PVC-I .195	PVC-IIA .242	FEP .195
Min. Inside Bend in. rad	3.0	2.0	1.0	1.2	1.0
Impedance Ohm	76	50	50	75	50
Capacitance pF/ft @ 1 GHz	20.6	29.6	30.8	20.6	29.4
Velocity of Propagation % of C	66	66	66	66	69.5
Shielding dB	40	40	40	40	60
Max Voltage vrms	3000	4,000	1,900	2,300	1,900
Temperature range °C	-40 +185	-40 +80	-40 +185	-40 +185	-55 +200
Power (Max Freq) W	NA	320	90	130	1100
Cutoff Frequency MHz	3000	1000	1000	1000	8000
Attenuation (dB/100 ft)					
100 MHz	0.4	2.0	4.6	3.3	3.8
400 MHz	1.0	4.3	9.4	6.9	7.8
1000 MHz	2.1	7.3	15.3	11.4	12.8
3000 MHz	5.2	NA	NA	NA	23.8
5000 MHz	NA	NA	NA	NA	NA
Power (kW)					
100 MHz	0.31	1.0	0.30	0.27	1.66
400 MHz	0.15	0.47	0.14	0.13	0.80
1000 MHz	0.09	0.28	0.09	0.08	0.48
3000 MHz	0.05	NA	NA	NA	0.26
5000 MHz	NA	NA	NA	NA	NA

RG & Mil-C-17 Replacement	RG214	RG223	RG316	RD316	RG400
Center Conductor	Bare Copper	Silver Plated Copper Clad	Silver Plated Copper Clad Steel	Silver Plated Copper Clad Steel	Silver Plated Copper Clad
Dimension in. (mm)	.0888 (2.26)	.035 (.89)	.021 (.53)	.021 (.53)	.039 (.98)
Dielectric	PE .285	PE .116	PTFE .060	PTFE .060	PTFE .116
Jacket	PVC-IIA .425	PVC-IIA .212	FEP .098	FEP .114	FEP-IX .195
Min. Inside Bend in. rad	2.5	1.0	0.5	0.5	1.0
Impedance Ohm	50	50	50	50	50
Capacitance pF/ft @ 1 GHz	30.8	30.8	29.4	29.4	29.4
Velocity of Propagation % of C	66	66	69.5	69.5	69.5
Shielding dB	60	60	40	60	40
Max Voltage vrms	5,000	1,900	1,200	900	1,900
Temperature range °C	-40 +185	-40 +185	-55 +200	-55 +200	-55 +200
Power (Max Freq) W	330	86	210	210	1050
Cutoff Frequency MHz	11,000	12,400	3000	3000	12,400
Attenuation (dB/100 ft)					
100 MHz	2.0	4.0	8.0	8.0	4.4
400 MHz	4.3	8.2	16.2	16.2	9.0
1000 MHz	7.3	13.4	26.1	26.1	14.7
3000 MHz	14.2	24.8	46.7	46.7	26.9
5000 MHz	19.7	33.5	NA	NA	36.1
11000 MHz	33.8	54.1	NA	NA	57.9
Power (kW)					
100 MHz	0.97	0.32	0.59	0.41	1.47
400 MHz	0.46	0.16	0.29	0.27	0.71
1000 MHz	0.27	0.09	0.17	0.13	0.43
3000 MHz	0.14	0.05	0.09	0.11	0.23
5000 MHz	0.10	0.04	NA	NA	0.17
11000 MHz	0.06	0.02	NA	NA	0.10