

## MIL-DTL-17 ( MIL-C-17 )

軍規同軸電纜適用於低損耗且穩定工作需求，從相對較低的頻率到較高頻率的微波和雷達區域的頻譜。它提供信號傳輸與同軸/三軸電纜最根據軍事規範要求，設計了標準化以滿足掃頻，回波損耗和衰減的要求。

可提供許多不同種類和配置的 MIL-DTL-17 規格同軸電纜，範圍從 25  $\Omega$  到 185  $\Omega$  的阻抗，以及多樣式的總體直徑從 0.034 in。到 1.770 in。還有各種材料可供介電質、導體、被覆護套和隔離供選擇使用。

由於 MIL-DTL-17 電纜的多功能性和可靠性，可用於航空航天應用。例如：用於地面支持設備的天線，安全通信，雷達系統，飛行引導設備等；也可用於簡單的功率傳輸（連續或間歇）之傳導能量、電路元件、延遲線、阻抗匹配設備。

本規範以前列在 MIL-C-17 下，並有幾個可相對應的商業用的 RG 電纜。

軍用標準也可以對應到 M17 同軸電纜。

詳細規格請參考下列表格及技術資料，或洽佳昭公司協助。



佳昭企業有限公司  
NEARSON ENTERPRISE CORP.

• TEL:886-2-2957-9823 • FAX:886-2-2957-9712  
• <http://www.nearson.com.tw>

## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/2-RG6	CCS 0.0285 (0.724)	PE 0.185 (4.70)	34SC-34BC 0.243 (6.17)	PVC-IIA 0.332 (8.43)	NA	0.082  (0.122)	75 +/-3  66	20.6  (67.6)	3,000	-40 +185  (-40 +85)	3 GHz Unswpt	Use M17/180-00001 LS/LT Jacket
M17/6-RG11	TC 7/.0159" 0.0477 (1.21)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	NA	0.098  (0.146)	75 +/-3  66	20.8  (67.6)	5,000	-40 +185  (-40 +85)	1GHz Unswpt	Use M17/181-00001 LS/LT Jacket
M17/6-RG12	TC 7/.0159" 0.0477 (1.21)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	Alum.Braid 0.463 (11.76)	0.144  (0.200)	75 +/-3  66	20.6  (67.6)	5,000	-40+185  (-40+85)	1 GHz Unswpt	Use M17/181-00002 LS/LT Jacket
M17/15-RG22	2-BC7/.0152" 0.0456 (1.16)	PE 0.285 (7.24)	34TC:34TC 0.343 (8.71)	PVC-IIA 0.420 (10.67)	NA	0.134  (0.200)	95 +/- 5  66	16.0  (52.5)	1,000	-40+185  (-40 +85)	200 MHz Unswpt	Use M17/182-00001 LS/LT Jacket
M17/15-RG111	2-BC 7/.0152" 0.0456 (1.16)	PE 0.285 (7.24)	34TC:34TC 0.343 (8.71)	PVC-IIA 0.420 (10.67)	Alum. Braid 0.478 (12.14)	0.161  (0.240)	95 +/- 5  66	16.0  (52.5)	1,000	-40 +185  (-40 +85)	200MHz Unswpt	Use M17/182-00002 LS/LT Jacket
M17/16-RG23	2-BC 7/.0285" 0.0855 (2.17)	PE: 2 cores 0.380 (9.65)	34BC:34BC .438 x .847 (11.1 x 21.5)	PVC-IIA .650 x .945 (16.5 x 24.0)	NA	0.530  (0.789)	125 +/- 5  66	12.0  (39.4)	7,000	-40 +185  (-40 +85)	400 MHz Unswpt	Inactive for new design
M17/16-RG24	2-BC 7/.0285" 0.0855 (2.17)	PE: 2 cores 0.380 (9.65)	34BC:34BC .438 x .847 (11.1 x 21.5)	PVC-IIA .650 x .945 (16.5 x 24.0)	Alum. Braid .708 x 1.003 (18.0 x 25.5)	0.730  (1.087)	125 +/-5  66	12.0  (39.4)	7,000	-40+185  (-40 +85)	400 MHz Unswpt	Inactive for new design
M17/19-RG25	TC 19/.0117" 0.0585 (1.49)	Rubber-E 0.288 (7.32)	34TC-34TC 0.382 (9.70)	Rubber-IV 0.505 (12.83)	NA	0.225  (0.335)	48 +/-4  42	50.0  (164.1)	10,000	-67 +194  (-55 +90)	1 MHz Unswpt	Triaxial Pulse Cable
M17/21-RG26	TC 19/.0117" 0.0585 (1.49)	Rubber-E 0.288 (7.32)	34TC 0.317 (8.05)	Rubber-IV 0.425 (10.80)	Alum. Braid 0.505 (12.83)	0.210  (0.313)	48 +/-4  42	50.0  (164.1)	10,000	-40 +185  (-40 +85)	1 MHz Unswpt	Coaxial Pulse Cable Armored
M17/22-RG27	TC 19/.0185" 0.0925 (2.35)	Rubber-D 0.455 (11.56)	34TC 0.484 (12.29)	Rubber-IV 0.595 (15.11)	Alum. Braid 0.670 (17.02)	0.330  (0.492)	48 +/-4  42	50.0  (164.1)	15,000	-40 +185  (-40 +85)	1 MHz Unswpt	Coaxial Pulse Cable Armored
M17/22-00001	TC 19/.0185" 0.0925 (2.35)	Rubber-D 0.455 (11.56)	34TC 0.484 (15.11)	Rubber-IV 0.595 (15.11)	NA	0.330  (0.492)	48 +/-4  42	50.0  (164.1)	15,000	-40 +185  (-40 +85)	1 MHz Unswpt	Coaxial Pulse Cable
M17/23-RG28	TC 19/.0185" 0.0925 (2.35)	Rubber-D 0.455 (11.58)	34TC:34GS 0.559 (14.20)	Rubber-IV 0.735 (18.67)	NA	0.400  (164.1)	48 +/-4  42	50.0  (164.1)	15,000	-40 +185  (-40 +85)	1 MHz Unswpt	Triaxial Pulse Cable
M17/24-RG34	TC 7/.0249" 0.0747 (1.90)	PE 0.460 (11.68)	33BC 0.493 (12.52)	PVC-IIA 0.630 (16.00)	NA	0.231  (0.344)	75 +/-3  66	22.0  (72.2)	6,500	-40+185  (-40+85)	1 GHz Unswpt	
M17/28-RG58	TC 19/.0072" 0.0355 (0.90)	PE 0.116 (2.95)	36TC 0.139 (3.53)	PVC-IIA 0.195 (4.95)	NA	0.026  (0.039)	50 +/-2  66	30.8  (101.1)	1,900	-40+185  (-40+85)	05 to 1 GHz Swept	Use: M17/183-00001 LS/LT Jacket
M17/29-RG59	CCS 0.0226 (0.57)	PE 0.146 (3.71)	34BC 0.175 (4.45)	PVC-IIA 0.242 (6.15)	NA	0.035  (0.052)	75 +/-3  66	20.6  (67.6)	2,300	-40+185  (-40 +85)	1 GHz Unswpt	Use: M17/184-00001 LS/LT Jacket
M17/30-RG62	CCS 0.0253 (0.64)	Airspaced PE 0.146 (3.71)	34BC 0.175 (4.45)	PVC-IIA 0.242 (6.15)	NA	0.038  (0.057)	93 +/-5  81	13.5  (44.3)	1,000	-40 +176  (-40 +80)	1 GHz Unswpt	Use: M17/185-00001 LS/LT Jacket
M17/31-RG63	CCS 0.0253 (0.64)	Airspaced PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	NA	0.138  (0.206)	125 +/-6  86	11.0  (36.1)	750	-40 +176  (-40 +80)	1 GHz Unswpt	Use: M17/218-00001 LS/LT Jacket
M17/31-RG79	CCS 0.0253 (0.64)	Airspaced PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.088  (0.131)	125 +/-5  81	10.0  (32.8)	1,000	-40 +175  (-40 +80)	1GHz Unswpt	Use: M17/218-00002 LS/LT Jacket
M17/33-RG64	TC 19/.0117" 0.0585  (1.49)	Rubber-E 0.288  (7.32)	34TC:34TC 0.346  (8.79)	Rubber-IV 0.450  (11.68)	NA	0.220  (0.328)	48 +/-4  42	55.0  (180.5)	10,000	-40 +185  (-40 +85)	1 MHz Unswpt	Coaxial Pulse Cable
M17/34-RG65	.008" MW Helix 0.1280 (3.25)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	NA	0.110  (0.164)	950 +/-50  2	48.0  (157.5)	1,500	-40 +176  (-40 +85)	5 MHz Unswpt	Coaxial Delay Line 0.15 uSec/foot
M17/45-RG108	2:TC 7/.0126" 0.0378 (0.96)	PE (2 cores) 0.079 (2.01)	36TC 0.181 (4.60)	PVC-IIA 0.235 (5.97)	NA	0.035  (0.052)	78 +/-7  68	19.6  (64.3)	1,000	-40 +185  (-40 +85)	10 MHz Unswpt	Use: M17/186-00001 LS/LT Jacket
M17/47-RG114	CCS 0.007 (0.18)	Airspaced PE 0.285 (7.24)	34BC 0.314 (7.98)	PVC-IIA 0.405 (10.29)	NA	0.089  (1.33)	185 +/-10  85	6.5  (21.3)	1,000	-40 -176  (-40 +80)	1 GHz Unswpt	Use: M17/208-00001 LS/LT Jacket



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part	Conductor inches No.	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (mm)	Impedance ohms (kg/m)	Capacitance pF/ft Vp (%)	Max Oper. Voltage (pF/m)	Temp. Range vrms	M17 Test F (C)	Comments Frequency
M17/52-RG119	BC 0.1019 (2.59)	PTFE 0.332 (8.43)	33BC:34BC 0.394 (10.01)	FG Braid-V 0.465 (11.81)	NA	0.228 (0.340)	50 +/-2 69.5	29.4 (96.5)	6,000	-67 +392 (-55 +200)	.05 - 1 GHz Swept	High Power Coax
M17/52-RG120	BC 0.1019 (2.59)	PTFE 0.332 (8.43)	33BC:34BC 0.394 (10.01)	FG Braid-V 0.465 (11.81)	Alum Braid 0.525 (13.34)	0.286 (0.426)	50 +/-2 69.5	29.4 (96.5)	6,000	-67 +392 (-55 +200)	.05 - 1GHz Swept	Armored M17/52-RG119
M17/52-00001	BC 0.1019 (2.59)	PTFE 0.332 (8.43)	33SC:33SC 0.394 (10.01)	FG Braid-V 0.465 (11.81)	NA	0.228 (0.340)	50 +/-2 69.5	29.4 (96.5)	6,000	-67 +392 (-55 +200)	.05 - 3GHz Swept	High Frequency M17/52-RG119
M17/54-RG122	TC 27/.005" 0.0308 (0.78)	PE 0.096 (2.44)	36TC 0.119 (3.02)	PVC-IIA 0.160 (4.06)	NA	0.021 (0.031)	50 +/-2 66	30.8 (101.1)	1,900	-40 +185 (-40 +85)	.05 - 1 GHz Swept	Use M17/187-00001 LS/LT Jacket
M17/56-RG130	2:BC 7/.0285" 0.0855 (2.17)	PE 0.472 (11.99)	30TC 0.518 (13.16)	PVC-IIA 0.625 (15.88)	NA	0.300 (0.447)	95 +/-5 66	16.3 (53.5)	3,000	-40 +185 (-40 +85)	200 MHz UnSwept	Balanced Shielded Line
M17/56-RG131	2:BC 7/.0285" 0.0855 (2.17)	PE 0.472 (11.99)	30TC 0.518 (13.16)	PVC-IIA 0.625 (15.88)	Alum. Braid 0.710 (18.03)	0.400 (0.596)	95 +/-5 66	16.3 (53.5)	3,000	-40 +185 (-40 +85)	200 MHz UnSwept	Armored M17/56-RG130
M17/60-RG142	SCCS 0.037 (0.94)	PTFE 0.116 (2.95)	36SC: 36SC 0.162 (4.11)	FEP-IX 0.195 (4.95)	NA	0.043 (0.064)	50 +/-2 69.5	29.4 (96.5)	1,900	-67 +392 (-55 +200)	.05 - 8 GHz Swept	50 ohm Low Loss High Temperature Coax
M17/62-RG144	SCCS 7/.0175" 0.0525 (1.33)	PTFE 0.285 (7.24)	34SC 0.314 (7.98)	FG Braided-V 0.410 (10.41)	NA	0.140 (0.209)	75 +/-3 69.5	19.5 (64.0)	5,000	-67 +392 (-55 +200)	3 GHz UnSwept	75 ohm Low Loss High Temperature Coax
M17/64-RG35	BC 0.1045 (2.65)	PE 0.680 (17.27)	30BC 0.726 (18.44)	PVC-IIA 0.870 (22.10)	Alum. Braid 0.945 (24.00)	0.545 (0.812)	75 +/- 3 66	20.6 (67.6)	10,000	-40 +185 (-40 +85)	1 GHz UnSwept	Armored M17/209-00001
M17/64-RG164	BC 0.1045 (2.65)	PE 0.680 (17.27)	30BC 0.726 (18.44)	PVC-IIA 0.870 (22.10)	NA	0.505 (0.752)	75 +/- 3 66	20.6 (67.6)	10,000	-40 +185 (-40 +185)	1 GHz UnSwept	Use: M17/209-0001 LS/LT Jacket
M17/65-RG165	SC 7/.0315" 0.094 (2.39)	PTFE 0.285 (7.24)	34SC 0.314 (7.98)	FG Braid-V 0.410 (10.41)	NA	0.142 (0.212)	50 +/- 2 69.5	29.4 (96.5)	2,500	-67 +482 (-55 +250)	0.05 - 3 GHz Swept	
M17/65-RG166	SC 7/.0315" 0.094 (2.39)	PTFE 0.285 (7.24)	34SC 0.314 (7.98)	FG Braid-V 0.410 (10.41)	Alum. Braid 0.470 (11.94)	0.189 (0.282)	50 +/- 2 69.5	29.4 (96.5)	2,500	-67 +482 (55 +250)	0.05 - 3 GHz Swept	Armored M17/65-RG165
M17/67-RG177	BC 0.195 (4.95)	PE 0.680 (17.27)	34SC: 34SC 0.738 (18.75)	PVC-IIA 0.895 (22.73)	NA	0.520 (0.775)	50 +/- 2 66	30.8 (101.1)	11,000	-40 +185 (-40 +85)	0.05 - 3 GHz Swept	Use: M17/210-00001 LS/LT Jacket
M17/72-RG211	BC 0.192 (4.88)	PTFE 0.620 (15.75)	32BC 0.657 (16.69)	FG Braid-V 0.730 (18.54)	NA	0.516 (0.769)	50 +/- 2 69.5	29.4 (96.5)	7,000	-67 +482 (-55 +250)	0.05 - 3 GHz Swept	
M17/73-RG212	SC 0.0556 (1.41)	PE 0.185 (4.70)	34SC:34SC 0.243 (6.17)	PVC-IIA 0.332 (8.43)	NA	0.089 (0.133)	50 +/- 2 66	30.8 (101.1)	3,000	-40 +185 (-40 +85)	0.05 - 3 GHz Swept	Use: M17/188-00001 LS/LT Jacket
M17/74-RG213	BC 7/.0296" 0.0888 (2.26)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	NA	0.111 (0.165)	50 +/- 2 66	30.8 (101.1)	5,000	-40 +185 (-40 +85)	0.05 - 1 GHz Swept	Use M17/189-00001 LS/LT Jacket
M17/74-RG215	BC 7/.0296" 0.0888 (2.26)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.138 (0.206)	50 +/- 2 66	30.8 (101.1)	5,000	-40 +185 (-40 +85)	0.05 - 11GHz Swept	Use M17/189-00002 LS/LT Jacket
M17/75-RG214	SC 7/.0296" 0.0888 (2.26)	PE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	PVC-IIA 0.425 (10.80)	NA	0.130 (0.194)	50 +/- 2 66	30.8 (101.1)	5,000	-40 +185 (-40 +85)	0.05 - 11GHz Swept	Use M17/190-00001 LS/LT Jacket
M17/75-RG365	SC 7/.0296" 0.0888 (2.26)	PE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	TPE 0.425 (10.80)	NA	0.130 (0.194)	50 +/-2 66	30.8 (101.1)	5,000	-67 +185 (-55 +85)	0.05 - 11GHz Swept	
M17/77-RG216	TC 7/.0159" 0.0477 (1.21)	PE 0.285 (7.24)	34BC:34BC 0.343 (8.71)	PVC-IIA 0.425 (10.80)	NA	0.124 (0.185)	75 +/-3 66	20.6 (67.6)	5,000	-40 +105 (-40 +85)	3 GHz UnSwept	Use M17/191-00001 LS/LT Jacket
M17/78-RG217	BC 0.106 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.436 (11.07)	PVC-IIA 0.545 (13.84)	NA	0.225 (0.335)	50 +/-2 66	30.8 (101.1)	7,000	-40 +185 (-40 +85)	0.05 - 3GHz Swept	Use M17/192-00001 LS/LT Jacket



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M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M1778-00001	BC 0.106 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.436 (12.07)	PVC-IIA 0.545 (13.84)	NA	0.225  (0.335)	50 +/-2  66	30.8  (101.1)	7,000	-40 +176  (-40 +85)	0.05 - 3GHz Swept	Temperature-cycled M1778-RG217
M1779-RG218	BC 0.195 (4.95)	PE 0.680 (17.27)	30BC 0.726 (18.44)	PVC-IIA 0.870 (22.10)	NA	0.510  (0.760)	50 +/-2  66	30.8  (101.1)	11,000	-40 +185  (-40 +85)	0.05 - 1GHz Swept	Use M17/193-00001 LS/LT Jacket
M1779-RG219	BC 0.195 (4.95)	PE 0.680 (17.27)	30BC 0.726 (18.44)	PVC-IIA 0.870 (22.10)	Alum.Braid 0.945 (24.00)	0.550  (0.819)	50 +/-2  66	30.8  (101.1)	11,000	-40 +185  (-40 +85)	0.05 - 1GHz Swept	Use M17/193-00002 LS/LT Jacket
M1781-00001	BC 0.260 (6.60)	PE 0.910 (23.11)	30BC 0.956 (24.28)	PVC-IIA 1.120 (28.45)	NA	0.820  (1.221)	50 +/-2  66	30.8  (101.1)	14,000	-40 +185  (-40 +85)	1 GHz UnSwept	
M1781-00002	BC 0.260 (6.60)	PE 0.910 (23.11)	30BC 0.956 (24.28)	PVC-IIA 1.120 (28.45)	Alum.Braid 1.195 (30.35)	0.880  (1.311)	50 +/-2  66	30.8  (101.1)	14,000	-40 +185  (-40 +85)	1 GHz UnSwept	Armored M1781-00001
M1784-RG223	SC 0.035 (0.89)	PE 0.116 (2.95)	36SC:36SC 0.162 (4.11)	PVC-IIA 0.212 (5.38)	NA	0.041  (0.061)	50 +/-2  66	30.8  (101.1)	1,900	-40 +185  (-40 +85)	.04-12.4 GHz Swept	Use M17/194-00001 LS/LT Jacket
M1786-00001	SC 7/.0312" 0.0936 (2.38)	PTFE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	FG Braid-V 0.430 (10.92)	NA	0.195  (0.290)	50 +/-2  69.5	29.4  (96.5)	5,000	-67 +392  (-55 +200)	400 MHz UnSwept	
M1786-00002	SC 7/.0312" 0.0936 (2.38)	PTFE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	FG Braid-V 0.430 (10.92)	Alum.Braid 0.490 (12.45)	0.222  (0.331)	50 +/-2  69.5	29.4  (96.5)	5,000	-67 +392  (-55 +200)	400 MHz UnSwept	Armored M1786-00001
M1787-00001	SC 19/.0254" 0.127 (3.23)	Taped PTFE 0.370 (9.40)	34BC:34SC 0.428 (5.03)	FG Braid-V 0.500 (12.70)	NA	0.448  (0.667)	50 +/-2  71	29.0  (95.1)	7,000	-67 +392  (-55 +200)	400 MHz UnSwept	
M1790-RG71	CCS 0.0253 (0.54)	Air-space PE 0.146 (3.71)	34BC:36TC 0.198 (5.03)	PE-III A 0.245 (6.22)	NA	0.050  (0.074)	93 +/-5  81	13.5  (44.3)	1,000	-67 +185  (-55 +85)	1GHz UnSwept	Use M17/195-00001 LS/LT Jacket
M1792-RG115	SC 7/.0280" 0.084 (2.13)	Taped PTFE 0.255 (6.48)	34SC:34SC 0.313 (7.95)	FG Braid-V 0.415 (10.54)	NA	0.185  (0.276)	50 +/- 2  71	29.0  (95.1)	5,000	-67 +392  (-55 +200)	.05-12.4 GHz Swept	
M1792-00001	SC 7/.0280" 0.084 (2.13)	Taped PTFE 0.255 (6.48)	34SC:34SC 0.313 (7.95)	FEP-IX 0.344 (8.74)	NA	0.185  (0.276)	50 +/- 2  71	29.0  (95.1)	5,000	-67 +392  (-55 +200)	.05-12.4 GHz Swept	
M1793-RG178	SCCS 7/.0040" 0.012 (0.30)	PTFE 0.033 (0.84)	38SC 0.051 (1.30)	FEP-IX 0.071 (1.80)	NA	0.006  (0.009)	50 +/- 2  69.5	29.4  (96.5)	1,000	-67 +392  (-55 +200)	.05-3 GHz Swept	
M1793-00001	SCCS 7/.0040" 0.012 (0.30)	PTFE 0.033 (0.84)	38SC 0.051 (1.30)	PFA-XIII 0.071 (1.80)	NA	0.006  (0.009)	50 +/- 2  69.5	29.4  (96.5)	1,000	-67 +446  (-55 +230)	.05-3 GHz Swept	
M1794-RG179	SCCS 7/.0040" 0.012 (0.30)	PTFE 0.063 (1.60)	38SC 0.081 (2.06)	FEP-IX 0.100 (2.54)	NA	0.010  (0.015)	75 +/- 3  69.5	19.5  (64.0)	1,200	-67 +392  (-55 +200)	3 GHz UnSwept	
M1795-RG180	SCCS 7/.0040" 0.012 (0.30)	PTFE 0.102 (2.59)	38SC 0.120 (3.05)	FEP-IX 0.141 (3.58)	NA	0.0198  (0.029)	95 +/-5  69.5	15.4  (50.5)	1,500	-67 +392  (-55 +200)	3 GHz UnSwept	
M1797-RG210	SCCS 0.0253 (0.64)	Air-space PTFE 0.146 (3.71)	34SC 0.175 (4.45)	FG Braid-V 0.242 (6.15)	NA	0.050  (0.074)	93 +/- 5  85	13.5  (44.3)	1,000	-67 +392  (-55 +200)	3 GHz UnSwept	
M17100-RG133	BC 0.0253 (0.64)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	NA	0.095  (0.142)	95 +/- 5  66	16.3  (53.5)	5,000	-40 +185  (-40 +85)	1 GHz UnSwept	
M17109-RG301	HR 7/.0203" 0.0609 (1.55)	PTFE 0.185 (4.70)	36HR 0.208 (5.28)	FEP-IX 0.245 (6.22)	NA	0.056  (0.083)	50 +/- 2  69.5	29.4  (96.5)	3,000	-67 +392  (-55 +200)	3 GHz UnSwept	
M17110-RG302	SCCS 0.0253 (0.64)	PTFE 0.146 (3.71)	36SC 0.169 (4.29)	FEP-IX 0.202 (5.13)	NA	0.040  (0.060)	75 +/- 3  69.5	19.5  (64.0)	2,300	-67 +392  (-55 +200)	3 GHz UnSwept	
M17111-RG303	SCCS 0.0370 (0.94)	PTFE 0.116 (2.95)	36SC 0.139 (3.53)	FEP-IX 0.170 (4.32)	NA	0.031  (0.046)	50 +/- 2  69.5	29.4  (96.5)	1,900	-67 +392  (-55 +200)	0.05-3 GHz Swept	



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/112-RG304	SCCS 0.0590 (1.50)	PTFE 0.185 (4.70)	34SC:34SC 0.243 (6.17)	FEP-IX 0.280 (7.11)	NA	0.094  (0.140)	50 +/- 2  69.5	29.4  (96.5)	3,000	-67 +392  (-55 +200)	0.05-8 GHz Swept	
M17/113-RG316	SCCS 7/.0067" 0.0201 (0.51)	PTFE 0.060 (1.52)	38SC 0.078 (1.98)	FEP-IX 0.098 (2.49)	NA	0.012  (0.018)	50 +/- 2  69.5	29.4  (96.5)	1,200	-67 +392  (-55 +200)	0.05-3 GHz Swept	
M17/116-RG307	SC 19/.0058" 0.0290 (0.74)	Foam PE 0.146 (3.71)	34SC- PUR-34SC 0.234 (5.94)	PE-III A 0.265 (6.73)	NA	0.080  (0.119)	75 +/- 3  81	16.9  (55.4)	1,000	-67 +185  (-55 +80)	1 GHz UnSwept	
M17/119-RG174	CCS 7/.0063" 0.0189 (0.48)	PE 0.060 (1.52)	38TC 0.078 (1.98)	PVC-II A 0.110 (2.79)	NA	0.009  (0.013)	50 +/- 2  66	30.8  (101.1)	1,500	-40 +185  (-40 +85)	0.05-1 GHz Swept	Use M17/196-00001 LS/LT Jacket
M17/124-RG328	TC Braid 0.4850 (12.32)	Rubber H,J,H 1.065 (27.05)	30TC: 33GS:30TC 1.251 (31.78)	Neoprene 1.460 (37.08)	NA	1.600  (2.383)	25 +/- 2  48	85.0  (278.9)	15,000	-67 +185  (-55 +85)	1 GHz UnSwept	
M17/125-RG329	TC19/.0117" 0.0585 (1.49)	Rubber H,J,H 0.380 (9.65)	30TC:33GS:30TC 0.571 (14.50)	Neoprene 0.700 (17.78)	NA	0.353  (0.526)	50 +/- 2  43	50.0  (164.1)	15,000	-67 +194  (-55 +90)	1 GHz UnSwept	
M17/126-RG391	TC 7/.0159" 0.0477 (8.23)	CPE & PE 0.295 (10.29)	34TC 0.324	PVC-II A 0.405 (10.49)	NA  64	0.100  (75.5)	72 +/-3	23.0  (-40 +85)	5,000	-40 +185 UnSwept	1 GHz LS/LT Jacket	Use: M17/211-00001
M17/126-RG392	TC 7/.0159" 0.0477 (1.21)	CPE & PE 0.295 (7.49)	34TC 0.324 (8.23)	PVC-II A 0.405 (10.29)	Alum.Braid 0.475 (12.07)	0.125  (0.186)	72 +/-3  64	23.0  (75.5)	5,000	-40 +185  (-40 +85)	1 GHz UnSwept	Armored M17/211-00001
M17/127-RG393	SC 7/.0312" 0.094 (2.39)	PTFE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	FEP-IX 0.390 (9.91)	NA	0.175  (0.261)	50 +/-2  69.5	29.4  (96.5)	5000	-67 +392  (-55 +200)	.05-11 GHz Swept	
M17/128-RG400	SC 19/.0080" 0.0384 (0.98)	PTFE 0.116 (2.95)	36SC:36SC 0.162 (4.11)	FEP-IX 0.195 (4.95)	NA	0.050  (0.074)	50 +/-2  69.5	29.4  (96.5)	1,900	-67 +392  (-55 +200)	.05-12.4 GHz Swept	
M17/129-RG401	SC 0.0641 (1.63)	PTFE 0.209 (5.31)	BC Tube 0.250 (6.35)	None	NA	0.105  (0.156)	50 +/-0.5  69.5	29.4  (96.5)	3,000	-40 +194  (-40 +90)	0.4-18 GHz Swept	
M17/129-00001	SC 0.0641 (1.63)	PTFE 0.209 (5.31)	TC Tube 0.250 (6.35)	None	NA	0.106  (0.158)	50 +/-0.5  69.5	29.4  (96.5)	3,000	-40 +194  (-40 +90)	0.4-18 GHz Swept	Tin Plated M17/129-RG401
M17/130-RG402	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	BC Tube 0.141 (3.58)	None	NA	0.0344  (0.051)	50 +/-2  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/130-00001	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	TC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/-1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tin Plated M17/130-RG402
M17/130-00002	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	BC Tube 0.141 (3.58)	None	NA	0.0344  (0.051)	50 +/-1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/130-00003	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	TC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/-1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tin Plated M17/130-00002
M17/130-00004	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	BC Tube 0.141 (3.58)	None	NA	0.0344  (0.051)	50 +/-1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/130-00005	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	TC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/-1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tin Plated M17/130-00004
M17/130-00006	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	BC Tube 0.141 (3.58)	None	NA	0.0344  (0.051)	50 +/-1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/130-00007	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	TC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/- 1  69.5	29.4  (96.5)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tin Plated M17/130-00006
M17/130-00008	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	AL Tube 0.141 (3.58)	None	NA	0.0188  (0.028)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/130-00009	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	Tinned AL Tube 0.141 (3.58)	None	NA	0.0205  (0.031)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tin Plated M17/130-00008
M17/130-00010	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	AL Tube 0.141 (3.58)	None	NA	0.0188  (0.028)	50 +/- 1  9.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/130-00011	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	Tinned AL Tube 0.141 (3.58)	None	NA	0.0205  (0.031)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tin Plated M17/130-00010
M17/130-00012	SCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	SC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Silver Plated M17/130-00004
M17/130-00013	SNCCS 0.0362 (0.92)	PTFE 0.1175 (2.98)	SC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz Swept	Silver Plated M17/130-00006
M17/130-00014	SCCS .0362 (0.92)	PTFE 0.1175 (2.98)	TC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz	90/10 Tin Plated 300u" minimum
M17/130-00015	SC .0362 (0.92)	PTFE 0.1175 (2.98)	TC Tube 0.141 (3.58)	None	NA	0.0351  (0.052)	50 +/- 1  69.5	29.9  (98.1)	1,900	-40 +257  (-40 +125)	0.5-20 GHz	90/10 Tin Plated 300u" minimum
M17/131-RG403	SCCS 7/.004 0.0120 (0.30)	PTFE 0.033 (0.84)	38SC-FEP-38SC 0.088 (2.24)	FEP-IX 0.116 (2.95)	NA	0.015  (0.022)	50 +/-2  69.5	29.4  (96.5)	1,000	-67 +392  (-55 +200)	0.05-10 GHz Swept	RG-178 Triax
M17/132-00001	SCCS 7/.004 0.0120 (0.30)	PTFE & CPT 0.035 (0.91)	38SC 0.054 (1.37)	FEP-IX 0.071 (1.80)	NA	0.018  (0.027)	50 +/-2  68	30.4  (99.7)	1,000	-40 +392  (-40 +200)	1 GHz UnSwept	RG-178 Low Noise
M17/133-RG405	SCCS 0.0201 (0.51)	PTFE 0.065 (1.68)	BC Tube 0.0865 (2.20)	None	NA	0.0153  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/133-00001	SCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	TC Tube 0.0865 (2.20)	None	NA	0.0158  (0.024)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20GHz Swept	Tinplated M17/133-RG405
M17/133-00002	SC 0.0201 (0.51)	PTFE 0.066 (1.68)	BC Tube 0.0865 (2.20)	None	NA	0.0152  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20GHz Swept	
M17/133-00003	SC 0.0201 (0.51)	PTFE 0.066 (1.68)	TC Tube 0.0865 (2.20)	None	NA	0.0157  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20GHz Swept	Tinplated M17/133-00002
M17/133-00004	SNCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	BC Tube 0.0865 (2.20)	None	NA	0.0154  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/133-00005	SNCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	TC Tube 0.0865 (2.20)	None	NA	0.0159  (0.024)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tinplated M17/133-00004
M17-133-00006	SCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	BC Tube 0.0865 (2.20)	None	NA	0.0153  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17-133-00007	SCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	TC Tube 0.0865 (2.20)	None	NA	0.0158  (0.024)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tinplated M17/133-00006
M17/133-00008	SC 0.0201 (0.51)	PTFE 0.066 (1.68)	BC Tube 0.0865 (2.20)	None	NA	0.0152  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/133-00009	SC 0.0201 (0.51)	PTFE 0.066 (1.68)	TC Tube 0.0865 (2.20)	None	NA	0.0157  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tinplated M17/133-00008
M17/133-00010	SNCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	BC Tube 0.0865 (2.20)	None	NA	0.0154  (0.023)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	
M17/133-00011	SNCCS 0.0202 (0.51)	PTFE 0.066 (1.68)	TC Tube 0.0865 (2.20)	None	NA	0.0159  (0.024)	50 +/-1.5  69.5	29.4  (96.5)	1,500	-40 +257  (-40 +125)	0.5-20 GHz Swept	Tinplated M17/133-00010



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/133-00012	SCCS 0.0201 (0.51)	PTFE 0.066 (0.68)	AL Tube 0.066 (2.20)	None	NA	0.0075 (0.011)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	
M17/133-00013	SCCS 0.0201 (0.051)	PTFE 0.066 (1.68)	Tinned AL Tube 0.0865 (2.20)	None	NA	0.008 (0.012)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	Tinplated M17/133-00012
M17/133-00014	SNCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	AL Tube 0.0865 (2.20)	None	NA	0.0075 (0.011)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	
M17/133-00015	SNCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	Tinned AL Tube 0.0865 (2.20)	None	NA	0.008 (0.012)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	Tinplated M17/133-00014
M17/133-00016	SCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	SC Tube 0.0865 (2.20)	None	NA	0.0158 (0.024)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	Silver plated M17/133-00006
M17/133-00017	SNCCS 0.0201 (0.51)	PTFE 0.066 (1.68)	SC Tube 0.0865 (2.20)	None	NA	0.0158 (0.024)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	Silver plated M17/133-00010
M17/133-00018	SC .0201 (0.51)	PTFE 0.066 (1.68)	TC Tube .0865 (2.20)	NA	NA	.0157 (.023)	50 +/-1.5 69.5	29.9 (98.1)	1,500	-40 +257 (-40 +125)	0.5-20 GHz Swept	90/10 Tinplated 300u" (minimum)
M17/134-00001	SC 0.033 (0.84)	PE 0.116 (2.95)	36SC-PE-36SC 0.198 (5.03)	PE-III A 0.245 (6.22)	NA	0.045 (0.067)	50 +/-2 66	30.8 (101.1)	1,900	-40 +158 (-40 +70)	.05-3 GHz Swept	Water blocked Triax
M17/134-00002	SC 0.033 (0.84)	PE 0.116 (2.95)	36SC-PE-36SC 0.198 (5.03)	PE-III A 0.245 (6.22)	NA	0.045 (0.067)	50 +/-2 66	30.8 (101.1)	1,900	-40 +158 (-40 +70)	.05-3 GHz Swept	Non-water blocked M17/134-00001
M17/134-00003	SC 0.033 (0.84)	PE 0.116 (2.95)	36SC-XLPE-36SC 0.198 (5.03)	XLPE 0.245 (6.22)	NA	0.050 (0.074)	50 +/-2 66	32.2 (105.6)	1,900	-22 +185 (-30 +85)	.05-3 GHz Swept	Non-halogen, Low Smoke M17/134-00001
M17/134-00004	SC 0.033 (0.84)	PE 0.116 (2.95)	36SC-XLPE-36SC 0.198 (5.03)	XLPE 0.245 (6.22)	NA	0.050 (0.074)	50 +/-2 66	32.2 (105.6)	1,900	-22 +185 (-30 +85)	.05-3 GHz Swept	Non-halogen, Low smoke M17/134-00002
M17/135-00001	SC 7/.0296 0.089 (2.24)	PE 0.285 (7.24)	33SC-PE-33SC 0.398 (10.11)	PUR 0.500 (12.70)	NA	0.160 (0.238)	50 +/-2 66	30.8 (101.1)	5,000	-40 +158 (-4 +70)	.05-3 GHz Swept	Water blocked Triax
M17/135-00002	SC 7/.0296 0.089 (2.24)	PE 0.285 (7.24)	33SC-PE-33SC 0.398 (10.11)	PUR 0.500 (12.70)	NA	0.160 (0.238)	50 +/-2 66	30.8 (101.1)	5,000	-40 +158 (-40 +70)	.05-3 GHz Swept	Non-water blocked M17/135-00001
M17/135-00003	SC 0.081 (2.06)	PE 0.285 (7.24)	33SC-PE-33SC 0.398 (10.11)	PE-III A 0.500 (12.70)	NA	0.185 (0.276)	50 +/-2 66	30.8 (101.1)	5,000	-40 +158 (-40 +70)	.05-3 GHz Swept	Water blocked Triaxial
M17/135-00004	SC 0.081 (2.06)	PE 0.285 (7.24)	33SC-PE-33SC 0.398 (10.11)	PE-III A 0.500 (12.70)	NA	0.185 (0.276)	50 +/-2 66	30.8 (101.1)	5,000	-40 +158 (-40 +70)	.05-3 GHz Swept	Non-Water blocked M17/135-00003
M17/135-00005	SC 0.081 (2.06)	PE 0.285 (7.24)	33SC-XLPE-33SC 0.398 (10.11)	XLPE 0.500 (12.70)	NA	0.185 (0.276)	50 +/-2 66	32.0 (105.0)	5,000	-22 +185 (-30 +85)	.05-3 GHz Swept	Water blocked Non-Halogen, Low smoke M17/135-00003
M17/135-00006	SC 0.081 (2.06)	PE 0.285 (7.24)	33SC-XLPE-33SC 0.398 (10.11)	XLPE 0.500 (12.70)	NA	0.185 (0.276)	50 +/-2 66	32.0 (105.0)	5,000	-22 +185 (-30 +85)	.05-3 GHz Swept	Non-Water blocked Non-Halogen, Low smoke M17/135-00004
M17/136-00001	SCCS 7/.004 0.0120 (0.30)	PTFE 0.063 (1.60)	38SC 0.081 (2.06)	PFA-XIII 0.100 (2.54)	NA	0.012 (0.018)	75 +/- 3 69.5	19.5 (64.0)	1,200	-67 +446 (-55 +230)	3 GHz UnSwept	High Temperature M17/94-RG179
M17/137-00001	SCCS 7/.004 0.0120 (0.30)	PTFE 0.102 (2.59)	38SC 0.120 (3.05)	PFA-XIII 0.141 (3.58)	NA	0.020 (0.030)	95 +/- 5 69.5	15.4 (50.5)	1,500	-67 +446 (-55 +230)	3 GHz UnSwept	High Temperature M17/95-RG180
M17/138-00001	SCCS 7/.0067 0.0201 (0.51)	PTFE 0.060 (1.52)	38SC 0.078 (1.98)	PFA-XIII 0.098 (2.49)	NA	0.0122 (0.018)	50 +/- 1.5 69.5	29.4 (96.5)	1,500	-67 +446 (-55 +230)	0.50-3 GHz Swept	High Temperature M17/113-RG316
M17/139-00001	SCBeCu 7/.004 0.0120 (2.59)	PTFE 0.102 (3.05)	38SC CadBr 0.120 (3.58)	PFA-XIII 0.141	NA (0.029)	0.0194 69.5	95 +/- 5 (50.5)	15.4	1,500	-67 +446 (-55 +230)	3 GHz UnSwept	High Strength M17/95-RG180



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/151-00001	SCCS 0.0113 (0.29)	PTFE 0.037 (0.94)	BC Tube 0.047 (1.19)	None	NA	0.0045 (0.0067)	50 +/- 2.5 69.5	29.4 (96.5)	1,000	-40 +212 (-40 +100)	0.50-20 GHz Swept	.047" Semirigid
M17/151-00002	SCCS 0.0113 (0.29)	PTFE 0.037 (0.94)	TC Tube 0.047 (1.19)	None	NA	0.0048 (0.007)	50 +/- 2.5 69.5	29.4 (96.5)	1,000	-40 +212 (-40 +100)	0.50-20 GHz Swept	Tinplated M17/151-00001
M17/152-00001	SCCS 7/.0067 0.0201 (0.51)	PTFE 0.060 (1.52)	38SC:38SC 0.096 (2.44)	FEP-IX 0.114 (2.90)	NA	0.0185 (0.028)	50 +/- 2 69.5	29.4 (96.5)	1,200	-67 +392 (-55 +200)	.05-12.4 GHz Swept	Double Shielded M17/113-RG316
M17/153-00001	SCCS 7/.0063 0.0189 (0.48)	PE 0.060 (1.52)	38SC:38SC 0.096 (2.44)	PVC-IIA 0.114 (2.90)	NA	0.0300 (0.045)	50 +/- 2 66	30.8 (101.1)	1,500	-40 +185 (-40 +85)	.05-12.4 GHz Swept	Canceled. Use M17/152-00001
M17/154-00001	SCCS 0.0080 (0.20)	PTFE 0.026 (0.66)	BC Tube 0.034 (0.86)	None	NA	0.0026 (0.0031)	50 +/- 3 69.5	29.4 (96.5)	750	-40 +212 (-40 +100)	0.50-20 GHz Swept	.034" Semirigid
M17/154-00002	SCCS 0.008 (0.20)	PTFE 0.026 (0.66)	TC Tube 0.034 (0.86)	None	NA	0.0028 (0.0042)	50 +/- 2 69.5	29.4 (96.5)	750	-40 +212 (-40 +100)	0.50-20 GHz Swept	Tinplated M17/154-00001
M17/155-00001	TC19/.0072 0.0355 (0.90)	PE 0.116 (2.95)	36TC 0.139 (3.53)	PVC-IIA 0.195 (4.95)	NA	0.0260 (0.039)	50 +/- 2 66	30.8 (101.1)	1,900	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/197-00001 LS/LT Jacket
M17/156-00001	BC 0.1019 (2.59)	PTFE 0.332 (8.43)	32BC:32BC 0.394 (10.01)	FG Braid-V 0.465 (11.81)	NA	0.2400 (0.357)	50 +/- 2 69.5	29.4 (96.5)	6,000	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/52-RG119
M17/157-00001 Jacket	TC 27/.005	PE 0.0308 (0.78)	36TC 0.096 (2.44)	PVC-IIA 0.1190 (3.02)	NA 0.160 (4.06)	0.0210	50 +/- 2 66	30.8 (101.1)	1,900	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/198- UnSwept LS/LT
M17/158-00001	SCCS 0.0370 (0.94)	PTFE 0.116 (2.95)	36SC:36SC 0.162 (4.11)	FEP-IX 0.195 (4.95)	NA	0.0560 (0.083)	50 +/- 2 69.5	29.4 (96.5)	1,900	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/60-RG142
M17/159-00001	SC 7/.0315 0.0940 (2.39)	PTFE 0.285 (7.24)	34SC 0.3140 (7.98)	FG Braid-V 0.410 (10.41)	NA	0.2180 (0.325)	50 +/- 2 69.5	29.4 (96.5)	2,500	-67 +482 (-55 +250)	400 MHz UnSwept	Unswept M17/65-RG165
M17/160-00001	BC 0.680 (4.95)	PE 0.738 (17.27)	34SC:34SC 0.895 (18.75)	PVC-IIA 0.410 (22.73)	NA	0.520 (0.775)	50 +/- 2 66	30.8 (101.1)	11,000	-40 +185 (-40 +85)	400 MHz UnSwept	Use: M17/212-00001 LS/LT Jacke
M17/161-00001	BC 0.192 (4.88)	PTFE 0.620 (15.75)	32BC 0.657 (16.69)	FG Braid-V 0.730 (18.54)	NA	0.6500 (0.968)	50 +/- 2 69.5	29.4 (96.5)	7,000	-67 +482 (-55 +250)	400 MHz UnSwept	Unswept M17/72-RG211
M17/161-00002	BC 0.192 (4.88)	PTFE 0.620 (15.75)	32BC 0.657 (16.69)	FG Braid-V 0.730 (18.54)	Alum. Braid 0.795 (20.19)	0.650 (0.968)	50 +/- 2 69.5	29.4 (96.5)	7,000	-67 +482 (-55 +250)	400 MHz UnSwept	Armored M17/161-00001
M17/162-00001 Jacket	SC	PE 0.0556 (1.41)	34SC:34SC 0.185 (4.70)	PVC-IIA 0.243 (6.17)	NA 0.332 (8.43)	0.0890	50 +/- 2 66	30.8 (101.1)	3,000	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/199- UnSwept LS/LT
M17/163-00001	BC 7/.0296 0.0888 (2.26)	PE 0.285 (7.24)	33BC 0.318 (8.08)	PVC-IIA 0.405 (10.29)	NA	0.1110 (0.165)	50 +/- 2 66	30.8 (101.1)	5,000	-40 +185 (-40 +85)	400 MHz UnSwept	Unswept M17/74-RG213
M17/164-00001	SC 7/.0296 0.0888 (2.26)	PE 0.2850 (7.24)	34SC:34SC 0.398 (10.11)	PVC-IIA 0.425 (10.80)	NA	0.140 (0.209)	50 +/- 2 66	30.8 (101.1)	5,000	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/214-00001 LS/LT Jacket
M17/164-00002	SC 7/.0296 0.0888 (2.26)	PE 0.285 (7.24)	34SC:34SC 0.398 (10.11)	TPE 0.425 (10.80)	NA	0.140 (0.209)	50 +/- 2 66	30.8 (101.1)	5,000	-67 +185 (-55 +85)	400 MHz UnSwept	Unswept M17/75-RG365
M17/165-00001	BC 0.106 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.436 (11.07)	PVC-IIA 0.545 (13.84)	NA	0.225 (0.335)	50 +/- 2 66	30.8 (101.1)	7,000	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/215-00001 LS/LT Jacket
M17/165-00002	BC 0.106 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.436 (11.07)	PVC-IIA 0.545 (13.84)	Alum. Braid 0.615 (15.62)	0.310 (0.462)	50 +/- 2 66	30.8 (101.1)	7,000	-40 +185 (-40 +85)	400 MHz UnSwept	Armored M17/215-00001
M17/166-00001	BC 0.195 (4.95)	PE 0.680 (17.27)	30BC 0.726 (18.44)	PVC-IIA 0.870 (22.10)	NA	0.510 (0.760)	50 +/- 2 66	30.8 (101.1)	11,000	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/216-00001 LS/LT Jacket



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Aarmor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/167-00001	SC 0.035 (0.89)	PE 0.116 (2.95)	36SC:36SC 0.162 (4.11)	PVC-IIA 0.212 (5.38)	NA	0.041 (0.061)	50 +/- 2 66	30.8 (101.1)	1,900	-40 +185 (-40 +85)	400 MHz UnSwept	Unswept M17/84-RG223 Use M17/200-00001 LS/LT Jacket
M17/168-00001	SC 7/.028 0.084 (2.13)	Taped PTFE 0.255 (6.48)	34SC:34SC 0.313 (7.95)	FG Braid-V 0.415 (10.54)	NA	0.185 (0.276)	50 +/- 2 71	29.0 (95.1)	5,000	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/92-RG115
M17/168-00002	SC 7/.028 0.084 (2.13)	Taped PTFE 0.255 (6.48)	34SC:34SC 0.313 (7.95)	FEP-IX 0.344 (8.74)	NA	0.185 (0.276)	50 +/- 2 71	29.0 (95.1)	5,000	-67 +392 (-55 +200)	400 MHz UnSwept	FEP Jacketed Unswept M17/92-RG115
M17/169-00001	SCCS 7/.004 0.012 (0.30)	PTFE 0.033 (0.84)	38SC 0.051 (1.30)	FEP-IX 0.071 (1.80)	NA	0.006 (0.009)	50 +/- 2 69.5	29.4 (96.5)	1,000	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/93-RG178
M17/170-00001	SCCS 0.037 (0.94)	PTFE 0.116 (2.95)	36SC 0.139 (3.53)	FEP-IX 0.170 (4.32)	NA	0.039 (0.058)	50 +/- 2 69.5	29.4 (96.5)	1,900	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/111-RG303
M17/171-00001	SCCS 0.0590 (1.50)	PTFE 0.185 (4.70)	34SC:34SC 0.243 (6.17)	FEP-IX 0.280 (7.11)	NA	0.092 (0.138)	50 +/- 2 69.5	29.4 (96.5)	3,000	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/112-RG304
M17/172-00001	SCCS 7/.0067 0.0201 (0.51)	PTFE 0.060 (1.52)	38SC 0.078 (1.98)	FEP-IX 0.098 (2.49)	NA	0.012 (0.017)	50 +/- 2 69.5	29.4 (96.5)	1,200	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/113-RG316
M17/173-00001	CCS 7/.0063 0.0189 (0.48)	PE 0.060 (1.52)	38TC 0.078 (1.98)	PVC-IIA 0.110 (2.79)	NA	0.0095 (0.014)	50 +/- 2 66	30.8 (101.1)	1,500	-40 +185 (-40 +85)	400 MHz UnSwept	Use M17/217-00001 LS/LT Jacket
M17/174-00001	SC 7/.0312 0.094 (2.39)	PTFE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	FEP-IX 0.390 (9.91)	NA	0.175 (0.261)	50 +/- 2 69.5	29.4 (96.5)	2,500	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/127-RG393
M17/175-00001	SC 19/.008 0.0384 (0.98)	PTFE 0.116 (2.95)	36SC:36SC 0.162 (4.11)	FEP-IX 0.195 (4.95)	NA	0.050 (0.074)	50 +/- 2 69.5	29.4 (96.5)	1,900	-67 +392 (-55 +200)	400 MHz UnSwept	Unswept M17/128-RG400
M17/176-00002	2C:SPA 19/.005 0.0235 (0.60)	PTFE 0.042 (1.07)	38SC:BeCu 0.102 (2.59)	PFA-XIII 0.129 (3.28)	NA	0.018 (0.027)	77 +/- 3 71	24.0 (78.7)	1,000	-67 +392 (-55 +200)	10 MHz UnSwept	Use up to 10 MHz maximum
M17/176-00003	2C:SPA 19/.005 0.0235 (0.60)	ETFE 0.042 (1.07)	38SC:BeCu 0.102 (2.59)	PFA,FEP, ETFE,ETCFE 0.125 (3.18)	NA	0.016 (0.024)	77 +/- 3 78	24.0 (78.7)	1,000	-67 +302 (-55 +150)	10 MHz UnSwept	Use up to 10 MHz maximum
M17/177-00001	SCCS 7/.004 0.012 (0.30)	PTFE 0.102 (2.59)	38SC-FEP- 38SC 0.159 (4.04)	FEP-IX 0.184 (4.67)	NA	0.034 (0.051)	95 +/- 3 69.5	15.4 (50.5)	1,500	-67 +392 (-55 +200)	3 GHz UnSwept	Use up to 3000 MHz maximum
M17/178-00001	SCCS 7/.004 0.012 (0.30)	PTFE 0.102 (2.59)	38SC:34NC Composite .170" (4.32)	Polyester Braid 0.270 (6.86)	NA	0.060 (0.089)	95 +/- 5 69.5	15.4 (50.5)	1,500	-67 +302 (-55 +150)	3 GHz UnSwept	Use up to 3000 MHz maximum
M17/179-00001	SCCS 7/.004 0.012 (0.30)	PTFE 0.063 (1.60)	38SC:34NC Composite .123" (3.12)	Polyester Braid 0.195 (4.95)	NA	0.036 (0.054)	75 +/- 3 69.5	19.5 (64.0)	1,200	-67 +302 (-55 +150)	3 GHz UnSwept	Use up to 3000 MHz maximum
M17/180-00001	CCS 0.0285 (0.72)	PE 0.185 (4.70)	34SC-34BC 0.243 (6.17)	XLPE 0.332 (8.43)	NA	0.092 (0.137)	75 +/- 3 66	20.6 (67.6)	2,700	-22 +176 (-30 +80)	3 GHz UnSwept	Non-halogen Low smoke M17/2-RG6
M17/181-00001	TC // .0159 0.0477 (1.21)	PE 0.285 (7.24)	33BC 0.318 (8.08)	XLPE 0.405 (10.29)	NA	0.108 (0.161)	75 +/- 3 66	20.6 (67.6)	5,000	-22 +176 (-30 +80)	1 GHz UnSwept	Non-halogen Low smoke M17/6-RG11
M17/181-00002	TC 7/.0159 0.0477 (1.21)	PE 0.285 (7.24)	34BC 0.318 (8.08)	XLPE 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.132 (0.197)	75 +/- 3 66	20.6 (67.6)	5,000	-22 +176 (-30 +80)	1 GHz UnSwept	Armored M17/181-00001
M17/182-00001	2C:BC 7/.0152 0.0456 (1.16)	PE 0.285 (7.24)	34TC:34TC 0.343 (8.71)	XLPE 0.405 (10.67)	NA	0.142 (0.212)	95 +/- 5 66	16.3 (53.5)	1,000	-22 +176 (-30 +80)	200 MHz UnSwept	Non halogen Low smoke M17/15-RG22
M17/182-00002	2C:BC 7/.0152 0.0456 (1.16)	PE 0.285 (7.24)	34TC:34TC 0.343 (8.71)	XLPE 0.420 (10.67)	Alum. Braid 0.490 (12.45)	0.169 (0.252)	95 +/- 5 66	16.3 (53.5)	1,000	-22 +176 (-30 +80)	200 MHz UnSwept	Armored M17/182-00001
M17/183-00001	TC 19/.0072 0.0355 (0.90)	PE 0.116 (2.95)	36TC 0.139 (3.53)	XLPE 0.195 (4.95)	NA	0.030 (0.045)	50 +/- 2 66	30.8 (101.1)	1,900	-22 +176 (-30 +80)	0.05-1 GHz Swept	Non-halogen Low smoke M17/28-RG58



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/184-00001	CCS 0.0226 (0.57)	PE 0.146 (3.71)	34BC 0.175 (4.45)	XLPE 0.242 (6.15)	NA	0.043 (0.064)	75 +/-3 66	20.6 (67.6)	2,300	-22 +176 (-30 +80)	1 GHz UnSwept	Non-halogen Low smoke M17/29-RG59
M17/185-00001	CCS 0.0253 (0.64)	Air spaced PE 0.146 (3.71)	34BC 0.175 (4.45)	XLPE 0.242 (6.15)	NA	0.042 (0.063)	93 +/-5 81	13.5 (44.3)	750	-22 +176 (-30 +80)	1 GHz UnSwept	Non-halogen Low smoke M17/30-RG62
M17/186-00001	2C:TC 7.0126 0.0378 (0.96)	PE (each) 0.079 (2.01)	36TC 0.181 (4.60)	XLPE 0.235 (5.97)	NA	0.041 (0.061)	75 +/-3 68	19.6 (64.3)	1,000	-22 +176 (-30 +80)	10 MHz UnSwept	Non-halogen Low smoke M17/45-RG108
M17/187-00001	TC 27.005 0.0308 (0.78)	PE 0.096 (2.44)	36TC 0.119 (3.02)	XLPE 0.160 (4.06)	NA	0.023 (0.034)	50 +/-2 66	30.8 (101.1)	1,900	-22 +176 (-30 +80)	0.05-1 GHz Swept	Non-halogen Low smoke M17/54-RG122
M17/188-00001	SC 0.0556 (1.41)	PE 0.185 (4.70)	34SC:34SC 0.243 (6.17)	XLPE 0.332 (8.43)	NA	0.099 (0.147)	50 +/-2 66	30.8 (101.1)	3,000	-22 +176 (-30 +80)	0.05-11 GHz Swept	Non-halogen Low smoke M17/73-RG212
M17/189-00001	BC 7.0296 0.0888 (2.26)	PE 0.285 (7.24)	33BC 0.318 (8.08)	XLPE 0.405 (10.29)	NA	0.121 (0.180)	50 +/-2 66	30.8 (101.1)	5,000	-22 +176 (-30 +80)	0.05-1GHz Swept	Non-halogen Low smoke M17/74-RG213
M17/189-00002	BC 7.0296 0.0888 (2.26)	PE 0.285 (7.24)	33BC 0.318 (8.08)	XLPE 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.146 (0.217)	50 +/-2 66	30.8 (101.1)	5,000	-22 +176 (-30 +80)	0.05-1 GHz Swept	Armored M17/189-00001
M17/190-00001	SC 7.0296 0.0888 (2.26)	PE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	XLPE 0.425 (10.80)	NA	0.154 (0.229)	50 +/-2 66	30.8 (101.1)	5,000	-22 +176 (-30 +80)	0.05-11 GHz Swept	Non-halogen Low smoke M17/75-RG214
M17/191-00001	TC 7.0159 0.0477 (1.21)	PE 0.285 (7.24)	34BC:34BC 0.343 (8.71)	XLPE 0.425 (10.80)	NA	0.139 (0.207)	75 +/-3 66	20.6 (67.6)	5,000	-22 +176 (-30 +80)	3 GHz UnSwept	Non-halogen Low smoke M17/77-RG216
M17/192-00001	BC 0.106 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.436 (11.07)	XLPE 0.545 (13.84)	NA	0.248 (0.369)	50 +/-2 66	30.8 (101.1)	7,000	-22 +176 (-30 +80)	0.05-3 GHz Swept	Non-halogen Low smoke M17/78-RG217
M17/192-00002	BC 0.106 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.436 (11.07)	XLPE 0.545 (13.84)	NA	0.248 (0.369)	50 +/-2 66	30.8 (101.1)	7,000	-22 +176 (-30 +80)	0.05-3 GHz Swept	M17/192-00001 with temperature cycling
M17/193-00001	BC 0.195 (4.95)	PE 0.680 (17.27)	30BC 0.726 (18.44)	XLPE 0.870 (22.10)	NA	0.521 (0.776)	50 +/-2 66	30.8 (101.1)	11,000	-22 +176 (-30 +80)	0.05-1 GHz Swept	Non-halogen Low smoke M17/79-RG218
M17/193-00002	BC 0.195 (4.95)	PE 0.680 (17.27)	30BC 0.726 (18.44)	XLPE 0.870 (22.10)	Alum. Braid 0.945 (24.00)	0.571 (0.851)	50 +/-2 66	30.8 (101.1)	11,000	-22 +176 (-30 +80)	0.05-1 GHz Swept	Armored M17/193-00001
M17/194-00001	SC 0.0350 (0.89)	PE 0.116 (2.95)	36SC:36SC 0.160 (4.11)	XLPE 0.212 (5.38)	NA	0.044 (0.066)	50 +/-2 66	30.8 (101.1)	1,900	-22 +176 (-30 +80)	0.04-12.4 GHz Swept	Non-halogen Low smoke M17/84-RG223
M17/195-00001	CCS 0.0253 (0.64)	Air Space PE 0.146 (3.71)	34BC:34TC 0.198 (5.03)	XLPE 0.245 (2.79)	NA	0.053 (0.079)	93 +/-5 85	13.5 (44.3)	750	-22 +176 (-30 +80)	1 GHz UnSwept	Non-halogen Low smoke M17/90-RG71
M17/196-00001	CCS 7.0063 0.0189 (0.48)	PE 0.060 (1.52)	38TC 0.078 (1.98)	XLPE 0.110 (2.79)	NA	0.009 (0.013)	50 +/-2 66	30.8 (101.1)	1,500	-22 +176 (-30 +80)	0.05-1 GHz Swept	Non-halogen Low smoke M17/119-RG174
M17/197-00001	TC 19.0072 0.0355 (0.90)	PE 0.116 (2.95)	36TC 0.139 (3.53)	XLPE 0.195 (4.95)	NA	0.0310 (0.046)	50 +/-2 66	30.8 (101.1)	1,500	-22 +176 (-30 +80)	400 MHz UnSwept	Non-halogen Low Smoke M17/155-00001
M17/198-00001	TC 27.005 0.0308 (0.78)	PE 0.096 (2.44)	36TC 0.119 (3.02)	XLPE 0.160 (4.06)	NA	0.024 (0.036)	50 +/-2 66	30.8 (101.1)	1,900	-22 +176 (-30 +80)	400 MHz UnSwept	Non-halogen Low smoke M17/157-00001
M17/199-00001	SC 0.0556 (1.41)	PE 0.185 (4.70)	34SC:34SC 0.243 (6.17)	XLPE 0.332 (8.43)	NA	0.100 (0.149)	50 +/-2 66	30.8 (101.1)	3,000	-22 +176 (-30 +80)	400 MHz UnSwept	Non-halogen Low smoke M17/162-00001
M17/200-00001	SC 0.0350 (0.89)	PE 0.116 (2.95)	36SC:36SC 0.162 (4.11)	XLPE 0.212 (5.38)	NA	0.044 (0.066)	50 +/-2 66	30.8 (101.1)	1,900	-22 +176 (-30 +80)	400 MHz UnSwept	Non-halogen Low smoke M17/167-00001
M17/201-00001	2C:SPA 19.005 (0.248) (0.63)	XLETFE 0.052 (1.32)	38TC 0.070 (1.78)	XLETFE 0.137 (3.48)	NA	0.0142 (0.021)	77 +/-5 66	30.0 (98.4)	600	-85 +302 (-65 +150)	1 MHz UnSwept	Single Shield Data Bus Cable



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/201-00002	2C:SPA 19/.0063 0.0312 (0.79)	XLETFE 0.064 (1.63)	38TC 0.087 (2.21)	XLETFE 0.165 (4.19)	NA	0.0219 (0.033)	77 +/-5 66	30.0 (98.4)	600	-85 +302 (-65+150)	1 MHz UnSwept	Single Shield Data Bus Cable
M17/201-00003	2C:SPA 19/.005 0.0248 (0.63)	XLETFE 0.048 (1.22)	38TC 0.066 (1.68)	XLETFE 0.130 (3.30)	NA	0.0159 (0.024)	77 +/-5 66	30.0 (98.4)	600	-85 +302 (-65+150)	1 MHz UnSwept	Single Shield Data Bus Cable
M17/202-00001	2C:SPA 19/.005 0.0248 (0.63)	XLETFE 0.048 (1.22)	38TC: 38TC 0.084 (2.13)	XLETFE 0.147 (3.73)	NA	0.0262 (0.039)	77 +/-5 66	30.0 (98.4)	600	-85 +302 (-65+150)	1 MHz UnSwept	Single Shield Data Bus Cable
M17/203-00001	2C:SPA 19/.005 0.0248 (0.63)	XLETFE 0.048 (1.22)	38TC:38TC Mu Metal Interlayer .140" (3.56)	XLETFE 0.161 (4.09)	NA	0.0291 (0.043)	77 +/-5 66	30.0 (98.4)	600	-85 +302 (-65+150)	1 MHz UnSwept	Single Shield Data Bus Cable
M17/205-00018	SC 0.0298 (0.76)	LDTFE 0.083 (2.11)	Helical SPC Tape 38SC: .109" (2.77)	PFA-XIII 0.120 (3.05)	NA	0.015 (0.022)	50 +/-2 82	27.0 (88.6)	1,900	-67 +392 (-55 +200)	0.05-18 GHz Swept	Consider: TFlex 405 or TFlex 402
M17/205-00050	SC 0.0298 (0.76)	LDTFE Tape 0.083 (2.11)	Helical SPC Tape 38SC: .109" (2.77)	PFA-XIII 0.120 (3.05)	NA	0.015 (0.022)	50 +/-2 82	27.0 (88.6)	1,900	-67 +392 (-55 +200)	0.05-50 GHz Swept	Consider TFlex 405 or TFlex 402
M17/206-00018	SC 0.0365 (0.93)	PTFE 0.117 (2.97)	SC Strip-Al Kptn 38SC: .154" (3.91)	FEP-IX 0.169 (4.29)	NA	0.040 (0.060)	50 +/-2 69.5	32.0 (105.0)	1,900	-67 +392 (-55 +200)	0.05-18 GHz Swept	Consider: SF-142
M17/206-00030	SC 0.0365 (0.93)	PTFE 0.117 (2.97)	SC Strip-Al Kptn 38SC: .154" (3.91)	FEP-IX 0.169 (4.29)	NA	0.040 (0.060)	50 +/-2 69.5	32.0 (105.0)	1,900	-67 +392 (-55 +200)	0.05-30 GHz Swept	Consider: SF-142
M17/208-00001	BCCS 0.007 (0.18)	Air Space PE 0.285 (7.24)	34BC 0.314 (7.98)	XLPE 0.405 (10.29)	NA	0.089 (0.133)	185 +/-10 83	7.2 (23.6)	1,000	-40 +176 (-40 +80)	1GHz UnSwept	Non halogen Low smoke M17/47-RG114
M17/209-00001	BCCS 0.1054 (2.68)	PE 0.680 (17.27)	30BC 0.726 (18.44)	XLPE 0.670 (22.10)	NA	0.505 (0.752)	75 +/-3 66	22.0 (72.2)	10,000	-40 +176 (-40 +80)	1GHz UnSwept	Non halogen Low smoke M17/64-RG164
M17/210-00001	BC 0.195 (4.95)	PE 0.680 (17.27)	34SC:34SC 0.738 (18.75)	XLPE 0.895 (22.73)	NA	0.572 (0.852)	50 +/-2 66	32.2 (105.6)	11,000	-40 +176 (-40 +80)	1GHz UnSwept	Non halogen Low smoke M17/67-RG177
M17/211-00001	TC 7/.0159 0.0477 (1.21)	CPE & PE 0.295 (7.49)	34TC 0.324 (8.23)	XLPE 0.405 (10.29)	NA	0.110 (0.164)	72 +/-3 63	24.0 (78.7)	5,000	-40 +176 (-40 +80)	1 GHz UnSwept	Non halogen Low smoke M17/126-RG391
M17/211-00002	BC 7/.0159 0.0477 (1.21)	CPE & PE 0.295 (7.49)	34 TC 0.324 (8.23)	XLPE 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.135 (0.201)	72 +/-3 63	24.0 (78.7)	5,000	-40 +176 (-40 +80)	1 GHz UnSwept	Armored M17/211-00001
M17/211-00003	BC 7/.0159 0.0477 (1.21)	CPE&PE 0.295 (17.27)	34TC 0.324 (8.23)	XLPE 0.405 (10.29)	NA	0.110 (0.201)	72 +/-3 63	24.0 (78.7)	5,000	-40 +176 (-40 +80)	1GHz UnSwept	M17/211-00001 +IR Spec.
M17/212-00001	BC 0.195 (4.95)	PE 0.680 (17.27)	34SC:34SC 0.738 (18.75)	XLPE 0.895 (22.73)	NA	0.572 (0.852)	50 +/-2 66	32.2 (105.6)	11,000	-40 +176 (-40 +80)	400 MHz UnSwept	Non halogen Low smoke M17/160-00001
M17/213-00001	BC 7/.0296 0.0888 (2.26)	PE 0.285 (7.24)	33BC 0.318 (8.08)	XLPE 0.405 (10.29)	NA	0.121 (0.180)	50 +/-2 66	32.2 (105.6)	5,000	-40 +176 (-40 +80)	400 MHz UnSwept	Non halogen Low smoke M17/163-00001
M17/214-00001	SC 7/.0296 0.888 (2.26)	PE 0.285 (7.24)	34SC:34SC 0.343 (8.71)	XLPE 0.425 (10.80)	NA	0.154 (0.229)	50 +/-2 66	32.2 (105.6)	7,000	-40 +176 (-40 +80)	400 MHz UnSwept	Non halogen Low smoke M17/164-00001
M17/215-00001	BC 0.1060 (2.69)	PE 0.370 (9.40)	33BC:33BC 0.403 (10.24)	XLPE 0.545 (13.84)	NA	0.248 (0.369)	50 +/-2 66	32.2 (105.6)	7,000	-40 +176 (-40 +80)	400 MHz UnSwept	Non halogen Low smoke M17/165-00001
M17/216-00001	BC 0.195 (4.95)	PE 0.680 (17.27)	30BC 0.726 (18.44)	XLPE 0.870 (22.10)	NA	0.521 (0.776)	50 +/-2 66	32.2 (105.6)	11,000	-40 +176 (-40 +80)	400 MHz UnSwept	Non halogen Low smoke M17/166-00001
M17/217-00001	BCCS 7/.0063 0.0189 (0.48)	PE 0.060 (1.52)	38TC 0.078 (1.98)	XLPE 0.110 (2.79)	NA	0.010 (0.015)	50 +/-2 66	32.2 (105.6)	1,500	-40 +176 (-40 +80)	400 MHz UnSwept	Non halogen Low smoke M17/173-00001
M17/218-00001	BCCS 0.0253 (0.64)	Air Spaced PE 0.285 (7.24)	33BC 0.318 (8.08)	XLPE 0.405 (10.29)	NA	0.095 (0.142)	125 +/-6 86	11.0 (36.1)	750	-40 +176 (-40 +80)	1 GHz UnSwept	Non halogen Low smoke M17/31-RG63



## M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/218-00002	BCCS 0.0253 (0.64)	Air Spaced PE 0.285 (7.24)	33BC 0.318 (8.08)	XLPE 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.138 (.206)	125 +/-6 86	11.0 (36.1)	750	-40 +176 (-40 +80)	1 GHz UnSwept	Armored M17/218-00001
M17/219-00001	SCCS 0.0232 (0.59)	PTFE 0.076 (1.93)	BC Tube 0.096 (2.44)	None	NA	0.015 (0.022)	50 +/-1 59.5	32.0 -105	1,700	-40 +257 (-40 +125)	0.50-50 GHz Swept	Proposed Spec
M17/220-00001	BC 0.044 (1.12)	Foam PE 0.116 (2.95)	36TC: Al Tape 0.144 (3.66)	XLPE 0.195 (4.95)	NA	0.037 (0.055)	50 +/-2 83	24.5 (80.4)	1,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/220-00002	BC 0.044 (1.12)	Foam PE 0.116 (2.95)	36TC: Al Tape 0.144 (3.66)	XLPE 0.195 (4.95)	Alum. Braid 0.265 (6.73)	0.051 (0.076)	50 +/-2 83	24.5 (80.4)	1,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/220-00001
M17/221-00001	BC 0.056 (1.42)	Foam PE 0.150 (3.81)	36TC: Al Tape 0.178 (4.52)	XLPE 0.242 (6.15)	NA	0.051 (0.076)	50 +/-2 84	24.2 (79.4)	1,500	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/221-00002	BC 0.056 (1.42)	Foam PE 0.150 (3.81)	36TC: Al Tape 0.178 (4.52)	XLPE 0.242 (6.15)	Alum. Braid 0.312 (7.92)	0.066 (0.098)	50 +/-2 84	24.2 (79.4)	1,500	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/221-00001
M17/222-00001	BC 0.070 (1.78)	Foam PE 0.190 (4.83)	34TC: Al Tape 0.225 (5.72)	XLPE 0.300 (7.62)	NA	0.087 (0.130)	50 +/-2 85	24.1 (79.1)	2,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/222-00002	BC 0.070 (1.78)	Foam PE 0.190 (4.83)	34TC: Al Tape 0.225 (5.72)	XLPE 0.300 (7.62)	Alum. Braid 0.370 (9.40)	0.105 (0.158)	50 +/-2 85	24.1 (79.1)	2,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/222-00001
M17/223-00001	BCCAI 0.108 (2.74)	Foam PE 0.285 (7.24)	34TC: Al Tape 0.320 (8.13)	XLPE 0.405 (10.29)	NA	0.114 (0.170)	50 +/-2 85	23.9 (78.4)	3,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/223-00002	BCCAI 0.108 (2.74)	Foam PE 0.285 (7.24)	34TC: Al Tape 0.320 (8.13)	XLPE 0.405 (10.29)	Alum. Braid 0.475 (12.07)	0.140 (0.209)	50 +/-2 85	23.9 (78.4)	3,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/223-00001
M17/224-00001	BCCAI 0.142 (3.61)	Foam PE 0.370 (9.40)	30TC: Al Tape 0.409 (10.39)	XLPE 0.500 (12.70)	NA	0.132 (0.197)	50 +/-2 86	23.6 (77.4)	4,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/224-00002	BCCAI 0.142 (3.61)	Foam PE 0.370 (9.40)	34TC: Al Tape 0.409 (10.39)	XLPE 0.500 (12.70)	Alum. Braid 0.570 (14.48)	0.163 (0.243)	50 +/-2 86	23.6 (77.4)	4,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/224-00001
M17/225-00001	BCCAI 0.176 (4.47)	Foam PE 0.455 (11.56)	34TC: Al Tape 0.490 (12.45)	XLPE 0.590 (14.99)	NA	0.168 (0.250)	50 +/-2 87	23.4 (76.8)	5,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/225-00002	BCCAI 0.176 (4.47)	Foam PE 0.455 (11.56)	34TC: Al Tape 0.490 (12.45)	XLPE 0.590 (14.99)	Alum. Braid 0.665 (16.89)	0.204 (0.304)	50 +/-2 87	23.4 (76.8)	5,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/225-00001
M17/226-00001	BC Tube 0.262 (6.65)	Foam PE 0.680 (17.27)	30TC: Al Tape 0.732 (18.59)	XLPE 0.870 (22.10)	NA	0.375 (0.559)	50 +/-2 87	23.4 (76.8)	7,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/226-00002	BC Tube 0.262 (6.65)	Foam PE 0.680 (17.27)	30TC: Al Tape 0.732 (18.59)	XLPE 0.870 (22.10)	Alum. Braid 0.945 (24.00)	0.427 (0.636)	50 +/-2 87	23.4 (76.8)	7,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/226-00001
M17/227-00001	BC Tube 0.349 (8.86)	Foam PE 0.920 (23.37)	30TC: Al Tape 0.972 (24.69)	XLPE 1.200 (30.48)	NA	0.686 (1.022)	50 +/-2 88	23.1 (75.8)	8,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/227-00002	BC Tube 0.349 (8.86)	Foam PE 0.920 (23.37)	30TC: Al Tape 0.972 (24.69)	XLPE 1.200 (30.48)	Alum. Braid 1.300 (33.02)	0.758 (1.129)	50 +/-2 88	23.1 (75.8)	8,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/227-00001
M17/228-00001	BC Tube 0.527 (13.39)	Foam PE 1.350 (34.29)	30TC: Al Tape 1.401 (35.59)	XLPE 1.670 (42.42)	NA	1.05 (1.564)	50 +/-2 89	22.8 (74.8)	10,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Non-halogen Low smoke Low loss
M17/228-00002	BC Tube 0.527 (13.39)	Foam PE 1.350 (34.29)	30TC: Al Tape 1.401 (35.59)	XLPE 1.670 (42.42)	Alum. Braid 1.300 (33.02)	1.13 (1.683)	50 +/-2 89	22.8 (74.8)	10,000	-22 +185 (-30 +85)	0.05-2.5 GHz Swept	Armored M17/228-00001
M17/233-0001	BC 7/0159 0.0477 (1.21)	CPE & PE 0.295 (7.49)	34 TC 0.324 (8.23)	XLPE 0.405 (10.29)	Magnetic Shield +XLPE .560 (14.22)	0.235 (0.350)	72 +/-3 63	24.0 (78.7)	5,000	-40 +176 (-40 +80)	1 GHz UnSwept	Magnetic Shielded M17/211-00003



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
1-3	WAVEGUIDE										
4	BC 0.032	PE 0.116	2:BC	PVC-I 0.226	NA	0.025	50	30.8	1,900	-40 +80	Use: M17/28-RG58
5	BC 0.0508	PE 0.185	2:BC	PVC-I 0.332	NA	0.088	52.5	28.5	3,000	-40 +80	Use: M17/73-RG212
5A	SC 0.0508	PE 0.181	2:SC	PVC-II 0.328	NA	0.088	50	30.8	3,000	-40 +80	Use: M17/73-RG212
5B	SC 0.0508	PE 0.181	2:SC	PVC-IIA 0.328	NA	0.087	50	30.8	3,000	-40 +80	Use: M17/73-RG212
6	CCS 0.0285	PE 0.185	2:SC,BC	PVC-II 0.332	NA	0.081	76	20.0	2,700	-40 +80	Use: M17/2-RG6
6A	CCS 0.0285	PE 0.185	2:SC,BC	PVC-IIA 0.332	NA	0.082	75	20.6	2,700	-40 +80	Use: M17/2-RG6
7	BC 0.0359	Air-space PE 0.250	1:BC	PVC-I 0.370	NA	0.080	95	13.5	1,000	-40 +80	Use: M17/31-RG63
8	7/.0285 BC 0.0855	PE 0.285	1:BC	PVC-I 0.405	NA	0.106	52	29.6	4,000	-40 +80	Use: M17/74-RG213
8A	7/.0285 BC 0.0855	PE 0.285	1:BC	PVC-IIA 0.405	NA	0.106	52	29.6	5,000	-40 +80	Use: M17/74-RG213
9	7/.0285 SC 0.0855	PE 0.280	2:SC,BC	PVC-II 0.420	NA	0.140	51	30.2	4,000	-40 +80	Use: M17/75-RG214
9A	7/.0285 SC 0.0855	PE 0.280	2:SC	PVC-II 0.420	NA	0.140	51	30.2	4,000	-40 +80	Use: M17/75-RG214
9B	7/.0285 SC 0.0855	PE 0.280	2:SC	PVC-IIA 0.420	NA	0.150	50	30.8	5,000	-40 +80	Use: M17/75-RG214
10	7/.0285 BC 0.0855	PE 0.285	1:BC	PVC-II 0.405	Alum. Braid 0.463	0.146	52	29.6	4,000	-40 +80	Use: M17/74-RG215
10A	7/.0285 BC 0.0855	PE 0.285	1:BC	PVC-IIA 0.405	Alum. Braid 0.463	0.146	52	29.6	5,000	-40 +80	Use: M17/74-RG215
11	7/.0159 TC 0.0477	PE 0.285	1:BC	PVC-I 0.405	NA	0.096	75	20.6	4,000	-40 +80	Use: M17/6-RG11
11A	7/.0159 TC 0.0477	PE 0.285	1:BC	PVC-IIA 0.405	NA	0.096	75	20.6	5,000	-40 +80	Use: M17/6-RG11
12	7/.0159 TC 0.0477	PE 0.285	1:BC	PVC-II 0.405	Alum. Braid 0.463	0.141	75	20.6	4,000	-40 +80	Use: M17/6-RG12
12A	7/.0159 TC 0.0477	PE 0.285	1:BC	PVC-IIA 0.405	Alum. Braid 0.463	0.141	75	20.6	5,000	-40 +80	Use: M17/6-RG12
13	7/.0159 TC 0.0477	PE 0.280	2:BC	PVC-I 0.420	NA	0.126	74	20.8	4,000	-40 +80	Use: M17/77-RG216
13A	7/.0159 TC 0.0477	PE 0.370	2:BC	PVC-IIA 0.420	NA	0.126	74	20.8	5,000	-40 +80	Use: M17/77-RG216
14	BC 0.102	PE 0.370	2:BC	PVC-II 0.545	NA	0.216	52	29.6	5,500	-40 +80	Use: M17/78-RG217
14A	BC 0.102	PE 0.370	2:BC	PVC-IIA 0.545	NA	0.216	52	29.6	7,000	-40 +80	Use: M17/78-RG217



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
15	CCS 0.0571	PE 0.370	2:BC	PVC-I 0.545	NA	0.197	76	20.0	5,000	-40 +80	
16	BC tube 0.125	PE 0.460	1:BC	PVC-I 0.630	NA	0.254	52	29.6	6,000	-40 +80	
17	BC 0.188	PE 0.680	1:BC	PVC-II 0.870	NA	0.460	52	29.6	11,000	-40 +80	Use: M17/79-RG218
17A	BC 0.188	PE 0.680	1:BC	PVC-IIA 0.870	NA	0.460	52	29.6	11,000	-40 +80	Use: M17/79-RG218
17B	CANCELLED, REASSIGNED NEW NOMENCLATURE RG177										
18	BC 0.188	PE 0.680	1:BC	PVC-II 0.870	Alum. Braid 0.925	0.585	52	29.6	11,000	-40 +80	Use: M17/79-RG219
18A	BC 0.188	PE 0.680	1:BC	PVC-IIA 0.870	Alum. Braid 0.928	0.585	52	29.6	11,000	-40 +80	Use: M17/79-RG219
19	BC 0.25	PE 0.91	1:BC	PVC-II 1.120	NA	0.740	52	29.6	14,000	-40 +80	Use: M17/81-00001
19A	BC 0.25	PE 0.91	1:BC	PVC-IIA 1.120	NA	0.740	52	29.6	14,000	-40 +80	Use: M17/81-00001
20	BC 0.25	PE 0.91	1:BC	PVC-II 1.120	Al. Braid 1.178	0.925	52	29.6	14,000	-40 +80	Use: M17/81-00002
20A	BC 0.25	PE 0.91	1:BC	PVC-IIA 1.12	Al. Braid 1.178	0.925	52	29.6	14,000	-40 +80	Use: M17/81-00002
21	HR 0.0508	PE 0.185	2:SC	PVC-II 0.332	NA	0.087	53	29.0	2,700	-40 +80	
21A	HR 0.0508	PE 0.185	2:SC	PVC-IIA 0.332	NA	0.087	53	29.0	2,700	-40 +80	
22	2: BC 7/.0152 0.0456	PE 0.285	1:TC	PVC-I 0.405	NA	0.105	95	16.3	1,000	-40 +80	Use: M17/15-RG22
22A	2: BC 7/.0152 0.0456	PE 0.285	2:TC	PVC-II 0.420	NA	0.151	95	16.3	1,000	-40 +80	Use: M17/15-RG22
22B	2: BC 7/.0152 0.0456	PE 0.285	2:TC	PVC-IIA 0.420	NA	0.151	95	16.3	1,000	-40 +80	Use: M17/15-RG22
23	2: BC 7/.0285 0.0855	PE, 2cores 0.380	2:BC	PVC-I 0.650x0.945	NA	0.490	125	12.0	3,000	-40 +80	Use: M17/16-RG23
23A	2: BC 7/.0285 0.0855	PE, 2cores 0.380	2:BC	PVC-IIA 0.650x0.945	NA	0.490	125	12.0	3,000	-40 +80	Use: M17/16-RG23
24	2: BC 7/.0285 0.0855	PE, 2 cores 0.380	2:BC	PVC-IIA 0.650x0.945	Al. Braid 0.708x1.003	0.670	125	12.0	3,000	-40 +80	Use: M17/16-RG24
24A	2: BC 7/.0285 0.0855	PE, 2 cores 0.380	2:BC	PVC-II 0.650x0.945	Al. Braid 0.708x1.003	0.670	125	12.0	3,000	-40 +80	Use: M17/16-RG24
25A	TC 19/.0117 0.0585	Rubber-E 0.288	2:TC	Rubber-IV 0.505		0.205	48	50.0	10,000	-40 +80	
26A	TC 19/.0117 0.0585	Rubber-E 0.288	1:TC	Rubber-IV	Al. Braid 0.483	0.189	48	50.0	10,000	-40 +80	
27A	TC 19/.0185 0.0925	Rubber-D 0.455	1:TC	Rubber-IV	Al. Braid 0.653	0.304	48	50.0	15,000	-40 +80	



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
28B	TC 19/.0185 0.0925	Rubber-D 0.455	2:TC, GS	Rubber-IV 0.750	NA	0.370	48	50.0	15,000	-40 +80	
29	BC 0.032	PE 0.116	1:TC	PE-III 0.184	NA	0.021	53.5	28.8	1,900	-55 +80	Use: M17/28-RG58
30	BC 7/.0159 0.0477	PIB 0.185	1:BC	PVC-I 0.250	NA	0.044	50	27.0	1,500	-40 +80	Use: M17/73-RG212
31	BC 7/.0285 0.0855	PIB 0.285	1:BC	PVC-I 0.405	NA	0.106	51	31.0	2,000	-40 +80	Use: M17/74-RG213
32	BC 7/.0285 0.0855	PIB 0.285	1:BC	PVC-I 0.405	Al. Braid 0.465	0.141	51	29.0	2,000	-40 +80	Use: M17/74-RG215
33	BC 0.1019	PE 0.370	None	Lead 0.470	NA	0.390	51	30.2	6,000	-55 +80	
34	BC 7/.0285 0.0855	PE 0.455	1:BC	PVC-I 0.625	NA	0.224	71	21.7	5,200	-40 +80	Use: M17/24-RG34
34A	BC 7/.0249 0.0747	PE 0.460	1:BC	PVC-IIA 0.630	NA	0.224	75	20.6	6,500	-40 +80	Use: M17/24-RG34
34B	BC 7/.0249 0.0747	PE 0.460	1:BC	PVC-IIA 0.630	NA	0.224	75	20.6	6,500	-40 +80	Use: M17/24-RG34
35	BC 0.1144	PE 0.680	1:BC	PVC-II 0.870	Al. Braid 0.928	0.525	71	21.7	10,000	-40 +80	Use: M17/64-RG35
35A	BC 0.1045	PE 0.680	1:BC	PVC-IIA 0.870	Al. Braid 0.928	0.525	75	20.6	10,000	-40 +80	Use: M17/64-RG35
35B	BC 0.1045	PE 0.680	1:BC	PVC-IIA 0.870	Al. Braid 0.928	0.525	75	20.6	10,000	-40 +80	Use: M17/64-RG35
36	BC 0.162	PE 0.910	1:BC	PVC-I 1.120	Al. Braid 1.180	0.805	69	22.3	13,000	-40 +80	
37	TC 0.032	Rubber-C 0.140	1:TC	PE-III 0.210	NA	0.040	52.5	38.0	750	-55 +80	
38	TC 0.0453	Rubber-C 0.196	2:TC	PE-III 0.312	NA	0.110	52.5	38.0	1,000	-55 +80	
39	CCS 0.0253	Rubber-C 0.196	2:TC	PE-III 0.312	NA	0.100	72.5	28.6	1,000	-55 +80	
40	CCS 0.0253	Rubber-C 0.196	2:TC	Rubber-IV 0.420	NA	0.150	72.5	28.0	1,000	-40 +80	
41	TC 16/.010 0.049	Rubber-C 0.250	1:TC	Rubber-IV 0.425	NA	0.150	67.5	27.6	3,000	-40 +80	
42	Resistance wire 0.0285	PE 0.196	2:SC	PVC-II 0.342	NA	0.050	78	19.7	2,700	-40 +80	Use: M17/2-RG6
43	2:BC 7/.0285 0.0855	Rubber-B 0.472	1:BC	PVC-I 0.617	NA		95	17.6	1,500	-40 +80	Use: M17/56-RG131
44-47	STUD SUPPORTED RIGID LINES See MIL-HDBK 216, Para. 5.5										
48-53	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL-HDBK 216, Para. 623										
54	BC 7/.0159 0.0477	PE 0.185	1:BC	PVC-I 0.275	NA	0.045	58	26.5	2,500	-40 +80	Use: M17/73-RG212



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
54A	BC 7/.0152 0.0456	PE 0.178	1:TC	PE-III 0.245	NA	0.041	58	26.5	3,000	-55 +80	Use: M17/73-RG212
55	BC 0.0320	PE 0.116	2:TC	PE-III 0.200	NA	0.032	53.5	28.8	1,900	-55 +80	Use: M17/84-RG223
55A	SC 0.0350	PE 0.116	2:SC	PVC-IIA 0.200	NA	0.034	50	30.8	1,900	-40 +80	Use: M17/84-RG223
55B	SC 0.0320	PE 0.116	2:TC	PVC-IIA 0.200	NA	0.033	53.5	28.8	1,900	-55 +80	Use: M17/84-RG223
56	TC 19/.0117 0.0585	Rubber-D 0.308	2:BC	PVC-I 0.535	NA	0.243	48	50.0	8,000	-40 +80	
57	2:BC 7/.0285 0.0855	PE 0.472	1:TC	PVC-I 0.625	NA	0.225	95	16.3	3,000	-40 +80	Use: M17/56-RG130
57A	2:BC 7/.0285 0.0855	PE 0.472	1:TC	PVC-IIA 0.625	NA	0.225	95	16.3	3,000	-40 +80	Use: M17/56-RG130
58	BC 0.0320	PE 0.116	1:TC	PVC-I 0.195	NA	0.029	53.5	28.8	1,900	-40 +80	Use: M17/28-RG58
58A	TC 19/.0071 0.0355	PE 0.116	1:TC	PVC-I 0.195	NA	0.029	52	29.6	1,900	-40 +80	Use: M17/28-RG58
58B	BC 0.0320	PE 0.116	1:TC	PVC-IIA 0.195	NA	0.029	53.5	28.8	1,900	-40 +80	Use: M17/28-RG58
58C	TC 19/.0071 0.0355	PE 0.116	1:TC	PVC-IIA 0.195	NA	0.029	50	30.8	1,900	-40 +80	Use: M17/28-RG58
59	CCS 0.0253	PE 0.146	1:BC	PVC-I 0.242	NA	0.032	73	21.1	2,300	-40 +80	Use: M17/29-RG59
59A	CCS 0.0253	PE 0.146	1:BC	PVC-IIA 0.242	NA	0.032	73	21.1	2,300	-40 +80	Use: M17/29-RG59
59B	CCS 0.0230	PE 0.146	1:BC	PVC-IIA 0.242	NA	0.032	75	20.6	2,300	-40 +80	Use: M17/29-RG59
60	Str. C 0.0508	Rubber-C 0.250	1:BC	Rubber-IV 0.425	NA	0.150	50	39.0	1,100	-40 +80	
61	SPECIAL	500 OHM	LINE								
62	CCS 0.0253	Air Space PE 0.146	1:BC	PVC-I 0.242	NA	0.038	93	13.5	750	-40 +80	Use: M17/30-RG62
62A	CCS 0.0253	Air Space PE 0.146	1:BC	PVC-IIA 0.242	NA	0.038	93	13.5	750	-40 +80	Use: M17/30-RG62
62B	CCS 7/.0080 0.0240	Air Space PE 0.146	1:BC	PVC-IIA 0.242	NA	0.038	93	13.5	750	-40 +80	Use: M17/30-RG62
63	CCS 0.0253	Air Space PE 0.285	1:BC	PVC-I 0.405	NA	0.083	125	10.0	1,000	-40 +80	Use: M17/31-RG63
63A	BC 0.0253	Air Space PE 0.285	1:BC	PVC-I 0.405	NA	0.083	125	10.0	1,000	-40 +80	Use: M17/31-RG63
63B	CCS 0.0253	Air-space PE 0.285	1:BC	PVC-IIA 0.405	NA	0.083	125	10.0	1,000	-40 +80	Use: M17/31-RG63
64	TC 19/.0117 0.0585	Rubber-D 0.308	2:TC	Rubber-IV 0.495	NA	0.225	48	60.0	10,000	-40 +80	



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
64A	TC 19/.0117 0.0585	Rubber-E 0.288	2:TC	Rubber-IV 0.460	NA	0.205	48	50.0	10,000	-40 +80	
65	0.008 Formex-F 0.1280 dia Helix	PE 0.285	1:BC	PVC-I 0.405	NA	0.096	950	44.0	1,000	-40 +80	Use: M17/34-RG65
65A	0.008 Formex-F 0.1280 dia Helix	PE 0.285	1:BC	PVC-IIA 0.405	NA	0.096	950	44.0	1,000	-40 +80	Use: M17/34-RG65
66-69	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-25 See Mil HDBK 216, Para. 6.17 -6.23										
71	CCS 0.0253	Air-Space PE 0.146	2:TC	PVC-I 0.245		0.046	93	13.5	750	-40 +80	Use: M17/90-RG71
71A	CCS 0.0253	Air-Space PE 0.146	2:TC	PE-III 0.245		0.046	93	13.5	750	-55 +80	Use: M17/90-RG71
71B	CCS 0.0253	Air-Space PE 0.146	2:TC	PE-IIIA 0.245	NA	0.046	93	13.5	750	-55 +80	Use: M17/90-RG71
72	CCS 0.0253	Air-Space PE 0.460	1:BC	PVC-I 0.630	NA	0.169	150	7.8	750	-40 +80	Low Capacitance
73	BC 0.0650	PE 0.116	2:BC	Copper Braid 0.175	NA	0.031	25	61.6	1,000	-55 +80	Low Impedence
74	BC 0.1020	PE 0.370	2:BC	PVC-II 0.545	Al.Braid 0.603	0.310	52	29.6	5,500	-40 +80	Use: M17/165-00002
74A	BC 0.1020	PE 0.370	2:BC	PVC-IIA 0.545	Al.braid 0.603	0.310	52	29.6	7,000	-40 +80	Use: M17/165-00002
75	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-25 See Mil HDBK 216, Para. 6.17 -6.21										
76	STUD SUPPORTED RIGID LINE NA See Mil HDBK 216, Para. 5.5										
77A	TC 19/.0117 0.0585	Rubber-E 0.288	2:TC	PVC-IIA 0.450	NA	0.195	48	50.0	8,000 peak	-40 +80	
78A	TC 19/.0117 0.0585	Rubber-E 0.288	1:TC	PVC-IIA 0.420	NA	0.149	48	50.0	8,000 peak	-40 +80	
79	CCS 0.0253	Air-space PE 0.285	1:BC	PVC-I 0.405	Al. Braid 0.463	0.136	125	10.0	1,000	-40 +80	Use: M17/31-RG79
79A	CCS 0.0253	Air-space PE 0.285	1:BC	PVC-I 0.405	Al. Braid 0.463	0.130	125	10.0	1,000	-40 +80	Use: M17/31-RG79
79B	CCS 0.0253	Air-space PE 0.285	1:BC	PVC-IIA 0.405	Al. Braid 0.463	0.136	125	10.0	1,000	-40 +80	Use: M17/31-RG79
80	RIGID LINE	See Mil HDBK 216 para 5.2									
81	BC 0.0625	MGO-G 0.321	None	Copper Tube .325	NA	0.172	50	37.0	3,000	>250	
82	BC 0.1250	MGO-G 0.650	None	Copper Tube .750	NA	0.698	50	36.0	5,000	>250	
83	BC 0.102	PE 0.240	1:BC	PVC-I 0.405	NA	0.120	35	44.0	2,000	-40 +80	Low Impedance
84A	BC 0.1045	PE 0.680	1:BC	PVC-IIA	Lead 1.000	1.325	75	20.6	10,000	-40 +80	



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
85A	BC 0.1045	PE 0.680	1:BC	PVC-IIA	Lead 1.565	2.910	75	20.6	10,000	-40 +80	
86	7/.0285 -2 Cond.BC 0.0855	PE 0.300 x .650	None	None	NA	0.100	200	7.8	10,000	-55 +80	Twin Lead
87A	SC 7/.032 0.0960	PTFE 0.280	2:SC	FG Braid-V 0.425	NA	0.180	50	29.4	5,000	-55 +250	Use: M17/127-RG393
88	TC 19/.0117 0.0585	Rubber-E 0.288	4:TC	PVC-I 0.515	NA	0.211	48	50.0	10,000	-40 +80	
88A	TC 19/.0117 0.0585	Rubber-E 0.288	4:TC	PVC-IIA 0.515	NA	0.211	48	50.0	10,000	-40 +80	
88B	TC 19/.0117 0.0585	Rubber-E 0.288	4:TC	Rubber-IV 0.565	NA	0.238	48	50.0	10,000	-40 +80	
89	CCS 0.0253	Air-Space PE 0.285	1:BC	PVC-I 0.632	NA	0.195	125	10.0	1,000	-40 +80	Use: M17/31-RG63
90	SC 7/.0201 0.0603	PE 0.195	3:SC, GC, SC	PVC-IIA 0.425	NA		50	30.8	3,000	-40 +80	Excellent Shielding
91	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDEK 216, Para . 6.17 -6.23										
92	RIGID COAXIAL LINE, See MIL. HDBK 216 para. 5.2										
93	BC 19/.0400 0.2000	Taped PTFE 0.573	1:BC	FG Braid-V 0.710	NA	0.475	50	29.0	10,000	-55 +250	Use: M17/72-RG211
94	SC 19/.0225 0.1125	Taped PTFE 0.292	2:BC	FG Braid-V 0.445		0.270	50	29.0	7,000	-55 +250	Use: M17/87-00001
94A	SC 19/.0254 0.1270	Taped PTFE 0.370	2:BC	FG Braid-V 0.500		0.445	50	29.0	7,000	-55 +250	Use: M17/87-00001
95-99	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See Mil HDBK 216, Para 6.17 -6.23										
100	BC 19/.0147 0.0735	PE 0.146	1:BC	PVC-I 0.242	NA	0.046	35	44.0	2,000	-40 +80	Use up to 1000 MHz
101	BC 0.0641	Rubber	1:TC .588	NA	NA		75				
102	2:BC 0.0808	Rubber	1:TC 1.088	NA	NA		140				
103-107	RECTANGULAR WAVE GUIDECOVERED BY MIL-W-85 See MIL HDEK 216, Para. 6.17 -6.23										
108	2:TC 7/.0126 0.0378	PE (each) 0.079	1:TC	PVC-II 0.235	NA	0.032	78	19.7	1,000	-40 +80	Use: M17/45-RG108
108A	2:TC 7/.0126 0.0378	PE (each) 0.079	1:TC	PVC-IIA 0.235	NA	0.032	78	19.7	1,000	-40 +80	Use: M17/45-RG108
109-110	RECTANGULARWAVE GUIDECOVERED BY MIL-W-85 See MIL HDEK 216, Para. 6.17 -6.23										
111	2:BC 7/.0152 0.0456	PE 0.285	2:TC	PVC-II	Al. Braid 0.478	0.146	95	16.3	1,000	-40 +80	Use: M17/15-RG111
111A	2:BC 7/.0152 0.0456	PE 0.285	2:TC	PVC-IIA	Al. Braid 0.478	0.146	95	16.3	1,000	-40 +80	Use: M17/15-RG111



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
112-113		RECTANGULAR WAVE GUIDE COVERED BY See MIL HDBK 216, Para 6.17 -6.23				MIL-W-85					
114	CCS 0.0070	Air-space PE 0.285	1:BC	PVC-IIA 0.405	NA	0.087	185	6.5	1,000	-40 +80	Use: M17/47-RG114
114A	CCS 0.0070	Air-space PE 0.285	1:BC	PVC-I 0.405	NA	0.087	185	6.5	1,000	-40 +80	Use: M17/47-RG114
115	SC 7/.0280 0.0840	Taped PTFE 0.250	2:SC	FG Braid-V 0.375	NA	0.148	50	29.0	5,000	-55 +250	Use: M17/168-00001
115A	SC 7/.0280 0.0840	Taped PTFE 0.255	2:SC	FG Braid-V 0.415	NA	0.180	50	29.0	5,000	-55 +250	Use: M17/168-00001
116	SC 7/.0320 0.0960	PTFE 0.280	2:SC	FG Braid-V	Al. Braid 0.475	0.198	50	29.4	5,000	-55 +250	Use: M17/86-00002
117	BC 0.1880	PTFE 0.620	1:BC	FG Braid-V .730	NA	0.641	50	29.4	7,000	-55 +250	Use: M17/72-RG211
117A	BC 0.1880	PTFE 0.620	1:BC	FG Braid-V	NA	0.641	50	29.4	7,000	-55 +250	Use: M17/72-RG211
118	BC 0.1880	PTFE 0.620	1:BC	FG Braid-V	Al. Braid 0.780	0.682	50	29.4	7,000	-55 +250	Use: M17/161-00002
118A	BC 0.1880	PTFE 0.620	1:BC	FG Braid-V	Al. Braid 0.780	0.682	50	29.4	7,000	-55 +250	Use: M17/161-00002
119	BC 0.1020	PTFE 0.332	2:BC	FG Braid-V 0.465	NA	0.225	50	29.4	6,000	-55 +250	Use: M17/52-RG119
120	BC 0.1020	PTFE 0.332	2:BC	FG Braid-V	Al. Braid 0.523	0.282	50	29.4	6,000	-55 +250	Use: M17/52-RG120
121		RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDBK 216, Para 17 -6.23									
122	TC 27/.0050 0.0300	PE 0.096	1:TC	PVC-IIA 0.160	NA	0.016	50	30.8	1,900	-40 +80	Use: M17/54-RG122
124	TCCS 0.0253	Taped PTFE 0.135	1:TC	FG Braid-V 0.240	NA	0.210	73	19.9	2,300	-55 +250	Use: M17/110-RG302
125	CCS 0.0159	Air-space PE 0.46	1:BC	PVC-IIA 0.600	NA	0.180	150	7.8	2,000	-40 +80	Low Capacitance
126	HR 7/.0203 0.0609	PTFE 0.185	1:HR	FG Braid-V 0.280	NA	0.070	50	29.4	3,000	-55 +250	Use: M17/109-RG301
127		RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDBK 216, Para. 6.17 -6.23									
128		RIGID LINE See MIL HDBK 216, Para. 5.2									
129		RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDBK 216, Para. 6.17 -6.23									
130	2:BC 7/.0285 0.0855	PE 0.472	1:TC	PVC-I 0.625	NA	0.220	95	17.0	3,000	-40 +80	Use: M17/56-RG130
131	2:BC 7/.0285 0.0855	PE 0.472	1:TC	PVC-I 0.625	Al. Braid 0.683	0.290	95	17.0	3,000	-40 +80	Use: M17/56-RG131
132		RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDBK 216, Para. 6.17 -6.23									



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
133	BC 0.0285	PE 0.285	1:BC	PVC-I 0.405	NA	0.094	95	16.3	4,000	-40 +80	Use: M17/100-RG133
133A	BC 0.0253	PE 0.285	1:TC	PVC-IIA 0.405	NA	0.094	95	16.3	4,000	-40 +80	Use: M17/100-RG133
134		RIGID LINE	See MIL	HDBK 216,	Para. 5.2						
135-139		RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85	See MIL HDBK 216, Para. 6.17 -6.23								
140 0.0250	SCCS 0.146	PTFE	1:SC 0.233	FG Braid-V	NA	0.056	75	19.5	2,300	-55 +250	Use: M17/110-RG302
141 0.0359	SCCS 0.116	PTFE	1:SC 0.190	FG Braid-V	NA	0.036	50	29.4	1,900	-55 +250	Use: M17/111-RG303
141A 0.0390	SCCS 0.116	PTFE	1:SC 0.190	FG Braid-V	NA	0.036	50	29.4	1,900	-55 +250	Use: M17/111-RG303
142	SCCS 0.0359	PTFE 0.116	2:SC	FG Braid-V 0.195	NA	0.047	50	29.4	1,900	-55 +250	Use: M17/60-RG142
142A	SCCS 0.0390	PTFE 0.116	2:SC	FG Braid-V 0.195	NA	0.047	50	29.4	1,900	-55 +250	Use: M17/60-RG142
142B	SCCS 0.0390	PTFE 0.116	2:SC	FEP 0.195	NA	0.050	50	29.4	1,900	-55 +250	Use: M17/60-RG142
143 0.0570	SCCS 0.185	PTFE	2:SC 0.325	FG Braid-V	NA	0.114	50	29.4	3,000	-55 +250	Use: M17/112-RG304
143A 0.0590	SCCS 0.185	PTFE	2:SC 0.325	FG Braid-V	NA	0.109	50	29.4	3,000	-55 +250	Use: M17/112-RG304
144	SCCS 7/.0179 0.0537	PTFE 0.285	1:SC	FG Braid-V 0.410	NA	0.137	75	19.5	5,000	-55 +250	Use: M17/62-RG144
145 0.0720	2:BC	Air-space PE	BC Tube	Lead/tar	NA		75	14.6			
146	CCS 0.0070	Air-space PTFE 0.285	1:BC	FG Braid-V 0.375	NA	0.108	190	6.0	1,000	-55 +200	Low capacitance
147	BC 0.2500	PE 0.910	1:BC	PVC-I 1.120	Al. Braid 1.937		52	29.6	14,000	-40 +80	Use: M17/81-00002
148	BC 7/.0285 0.0855	PE 0.285	1:BC	PVC-I 0.405	Al. Braid 0.800		52	29.6	4,000	-40 +80	Use: M17/74-RG213
149	TC 7/.0159 0.0480	PE 0.285	1:BC	PVC-IIA 0.405	NA	0.105	75	20.6	5,000	-40 +80	Use: M17/126-RG391
150	TC 7/.0159 0.0480	PE 0.285	1:BC	PVC-IIA 0.405	Al. Braid 0.463	0.112	75	20.6	5,000	-40 +80	Use: M17/126-RG392
151-155		RIGID LINES COVERED BY MIL-L-3890.	See MIL HDBK 216, para. 5.4								
156	TC 7/.0285 0.0855	PE & CPE 3:TC,GS,TC 0.285		PVC-IIA 0.540	NA	0.211	50	32.8	10,000	-40 +80	Triaxial Pulse Cable
157	TC 19/.0201 0.1005	PE & CPE 3:TC,GS,TC 0.455		PVC-IIA 0.725	NA	0.317	50	32.8	15,000	-40 +80	Triaxial Pulse Cable
158	TC 37/.0284 0.1988	PE & CPE 3:TC,GS,TC 0.455		PVC-IIA 0.725	NA	0.380	25	65.5	15,000	-40 +80	Triaxial Pulse Cable



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
159	SC	Taped PTFE 0.0320	1:SC 0.116	FG Braid-V	NA 0.195	0.035	50	29.0	1,900	-55 +250	Use: M17/111-RG303
160	2:TC,2:BC 19/0142 0.071	PE 0.322	1:BC	PVC-I 1.055	NA		125	12.0	3,000	-40 +80	4 conductor balanced line
161	S Cad.BR 7/004 0.012	PTFE 0.057	1:SC	Nylon 0.082	NA	0.015	70	20.9	1,000	-60 +120	
162	RIGID LINE See MIL HDBK 216, Para. 5.2										
163	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDBK 216, para. 6.17 - 6.23										
164	BC 0.1045	PE 0.680	1:BC	PVC-IIA 0.870	NA	0.490	75	20.6	10,000	-40 +80	Use: M17/64-RG164
165	SC 7/.0320 0.0960	PTFE 0.285	1:SC	FG Braid-V 0.410	NA	0.121	50	29.4	5,000	-55 +250	Use: M17/65-RG165
166	SC 7/.0320 0.0960	PTFE 0.285	1:SC	FG Braid-V 0.410	Al. Braid 0.460	0.144	50	29.4	5,000	-55 +250	Use: M17/65-RG166
167-173	RECTANGULAR WAVE GUIDE COVERED BY MIL-W-85 See MIL HDBK216, para. 6.17 - 6.23										
174	CCS 7/.0063 0.0189	PE 0.060	1:TC	PVC-I 0.100	NA	0.008	50	30.8	1,500	-40 +80	Use: M17/119-RG174
174A	CCS 7/.0063 0.0189	PE 0.060	1:TC	PVC-IIA 0.100	NA	0.008	50	30.8	1,500	-40 +80	Use: M17/119-RG174
175	RIGID LINE										
176	Helix over magnetic PE core 0.135	PE 0.285	1:Magnet wire	PVC-I 0.405	NA	0.120	2240	49.0	5,000	-40 +80	
177	BC 0.1950	PE 0.680	2:SC	PVC-IIA 0.895	NA	0.470	50	30.8	11,000	-40 +80	Use: M17/67-RG177
178	SCCS 7/.0040 0.0120	PTFE 0.036	1:SC	KEL-F 0.072	NA	0.0054	50	29.4	1,000	-40 +150	Use: M17/93-RG178
178A	SCCS 7/.0040 0.0120	PTFE 0.034	1:SC	KEL-F 0.072	NA	0.005	50	29.4	1,000	-40 +150	Use: M17/93-RG178
178B	SCCS 7/.0040 0.0120	PTFE 0.034	1:SC	FEP-IX 0.072	NA	0.0054	50	29.4	1,000	-55 +200	Use: M17/93-RG178
179	SCCS 7/.0040 0.0120	PTFE 0.057	1:SC	KEL-F 0.100	NA	0.010	70	20.9	1,200	-55 +150	Use: M17/94-RG179
179A	SCCS 7/.0040 0.0120	PTFE 0.063	1:SC	KEL-F 0.100	NA	0.010	75	19.5	1,200	-40 +150	Use: M17/94-RG179
179B	SCCS 7/.0040 0.0120	PTFE 0.063	1:SC	FEP-IX 0.100	NA	0.010	75	19.5	1,200	-55 +200	Use: M17/94-RG179
180	SCCS 7/.0040 0.0120	PTFE 0.103	1:SC	KEL-F 0.140	NA	0.019	93	15.4	1,500	-40 +150	Use: M17/95-RG180
180A	SCCS 7/.0040 0.0120	PTFE 0.102	1:SC	KEL-F 0.140	NA	0.019	95	15.4	1,500	-40 +150	Use: M17/95-RG180
180B	SCCS 7/.0040 0.0120	PTFE 0.102	1:SC	FEP-IX 0.140	NA	0.019	95	15.4	1,500	-55 +200	Use: M17/95-RG180



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
181	2:BC 7/.0159 0.0477	PE 0.210	2:BC	PVC-IIA 0.640	NA	0.198	125	12.0	3,500	-40 +80	Balanced line
182	2BC 19/.0142 2TC 19/.0066	PE 4 cores 2/.332-2/.146	2:BC	PVC-IIAea/ PVC-II.055	NA		125	12.0	2,300	-40 +80	4 conductor coax
183	BC 0.251	PS Helix 0.632	Al. Tube .750	None	NA	0.380	50	23.0	1,800	-40 +80	M17/226-00001
184	RECTANGULAR	WAVE GUIDE	(MIL-W-18988 [ships]; canceled 20 March, 1961)								
185	Mag wire Helix on PE core 0.0031	Air-space PE 0.188	MW	PVC-IIA 0.282	NA		2000			-40 +80	Delay line cable
186	TFE Helix over core 0.008	Air-space PE 0.292	MW	PVC-IIA 0.405	NA		1000			-40 +80	Delay line cable
187	SCCS 7/.0040 0.0120	PTFE 0.060	1:SC	PTFE 0.105	NA	0.010	75	19.5	1,200	-55 +250	Use: M17/136-00001
187A	SCCS 7/.0040 0.0120	PTFE 0.060	1:SC	PTFE 0.105	NA	0.010	75	19.5	1,200	-55 +250	Use: M17/136-00001
188	SCCS 7/.0067 0.0201	PTFE 0.060	1:SC	PTFE 0.105	NA	0.011	50	29.4	1,200	-55 +250	Use: M17/138-00001
188A	SCCS 7/.0067 0.0201	PTFE 0.060	1:SC	PTFE 0.105	NA	0.011	50	29.4	1,200	-55 +250	Use: M17/138-00001
189	BC 0.2510	PS Helix 0.632	2:SC	PE-III A 0.875	NA	0.570	50	23.0	3,500	-55 +80	Use RG389
190	TC 19/.0117 0.0585	Rubber H,J,3: 0.380	TC,GS,TC	Neoprene VIII 0.700	NA	0.353	50	50.0	15,000	-55 +80	
191	TC Braid 0.485	Rubber H,J,H 1.065	3:TC,GS,TC	Neoprene VIII 1.460	NA	1.469	25	85.0	15,000 peak	-55 +80	
192	GS Tube TC Braid 1.055	Butyl Rubber	3:TC,GS,TC	Rubber 2.200	NA		12.5	175.0	15,000 peak	-55 +80	
193	GS Tube TC Braid 1.055	Silicon Rubber	3:TC,GS,TC	Rubber 2.100	NA		12.5	159.0	30,000 peak	-55 +80	
194	GS Tube TC Braid 1.055	Silicon Rubber	3:TC,GS,TC	Rubber	Al. Armor 1.945		12.5	159.0	30,000 peak	-55 +80	
195	SCCS 7/.004 0.012	PTFE 0.102	1:SC	PTFE 0.145	NA	0.020	95	15.4	1,500	-55 +250	Use: M17/137-00001
195A	SCCS 7/.004 0.012	PTFE 0.102	1:SC	PTFE 0.145	NA	0.020	95	15.4	1,500	-55 +250	Use: M17/137-00001
196	SCCS 7/.004 0.012	PTFE 0.034	1:SC	PTFE 0.072	NA	0.006	50	29.4	1,000	-55 +250	Use: M17/93-00001
196A	SCCS 7/.004 0.012	PTFE 0.034	1:SC	PTFE 0.072	NA	0.006	50	29.4	1,000	-55 +250	Use: M17/93-00001
197	BC 00001	PS Helix	Al. Tube	None 0.300	NA 0.758	0.500 .875	50	22.0 peak	2,400	-55 +80	M17/227-
198	BC 0.114	PS Helix 0.421	Al. Tube .500'	PE 0.600	NA	0.155	70	16.0	1,300 peak	-55 +80	
199	BC 0.209	PS Helix 0.758	Al. Tube .875	PE 1.015	NA	0.435	70	16.0	2,400 peak	-55 +80	



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
200	BC Tube .301 id/ .405 od	PS Helix 1.472	Al. Tube	PE 1.765	NA	0.900	70	16.0	4,600 peak	-55 +250	
201-208	RECTANGULAR WAVE GUIDE COVERED BY MIL - W- 85. See MIL HDBK 216, para. 6.17 - 6.23										
209	SC 19/.0378 0.189	Air-space PTFE 0.500	2:SC	SR & Polyester/VI 0.725	NA	0.432	50	25.0	3,200	-55 +150	Low loss RG211A
210	SCCS 0.0253	Air-space PTFE 0.146	1:SC	FG Braid-V 0.242	NA	0.040	93	13.5	750	-55 +250	Use: M17/97-RG210
211	BC 0.1900	PTFE 0.620	1:BC	FG Braid-V 0.730	NA	0.641	50	29.4	7,000	-55 +250	Use: M17/72-RG211
211A	BC 0.1900	PTFE 0.620	1:BC	FG Braid-V 0.730	NA	0.641	50	29.4	7,000	-55 +250	Use: M17/72-RG211
212	SC 0.0556	PE 0.185	2SC	PVC-IIA 0.332	NA	0.083	50	29.4	3,000	-40 +80	Use: M17/73-RG212
213	BC 7/.0296 0.0888	PE 0.285	1:BC	PVC-IIA 0.405	NA	0.099	50	30.8	5,000	-40 +80	Use: M17/74-RG213
214	SC 7/.0296 0.0888	PE 0.285	2:SC	PVC-IIA 0.425	NA	0.126	50	30.8	5,000	-40 +80	Use: M17/75-RG214
215	BC 7/.0296 0.0888	PE 0.285	1:BC	PVC-IIA 0.425	Al. Braid 0.463	0.121	50	30.8	5,000	-40 +80	Use: M17/74-RG215
216	TC 7/.0159 0.0477	PE 0.285	2:BC	PVC-IIA 0.425	NA	0.114	75	20.6	5,000	-40 +80	Use: M17/77-RG216
217	BC 0.106	PE 0.370	2:BC	PVC-IIA 0.545	NA	0.201	50	30.8	7,000	-40 +80	Use: M17/78-RG217
218	BC 0.195	PE 0.680	1:BC	PVC-IIA 0.870	NA	0.460	50	30.8	11,000	-40 +80)	Use: M17/79-RG218
219	BC 0.195	PE 0.680	1:BC	PVC-IIA 0.870	Al. Braid 0.928	0.585	50	30.8	11,000	-40 +80	Use: M17/79-RG219
220	BC 0.260	PE 0.910	1:BC	PVC-IIA 1.120	NA	0.740	50	30.8	14,000	-40 +80	Use: M17/81-00001
221	BC 0.260	PE 0.910	1:BC	PVC-IIA 1.120	Al. Braid 1.178	0.925	50	30.8	14,000	-40 +80	Use: M17/81-00002
222	HR 0.0556	PE 0.185	2:SC	PVC-IIA 0.332	NA	0.087	50	30.8	3,000	-40 +80	Use: M17/162-00001
223	SC 0.0350	PE 0.116	2:SC	PVC-IIA 0.211	NA	0.034	50	30.8	1,900	-40 +80	Use: M17/84-RG223
224	BC 0.106	PE 0.370	2:BC	PVC-IIA 0.545	Al. Braid 0.603	0.310	50	30.8	7,000	-40 +80	Use: M17/165-00002
225	SC 7/.0312 0.0936	PTFE 0.285	2:SC	FG Braid-V 0.430	NA	0.180	50	29.4	5,000	-55 +250	Use: M17/86-00001
226	SC 19/.0254 0.127	Taped PTFE 0.370	2:BC	FG Braid-V 0.500	NA	0.445	50	29.4	7,000	-55 +250	Use: M17/87-00001
227	SC 7/.0312 0.0936	PTFE 0.285	2:SC	FG Braid-V 0.430	Al. Braid 0.488	0.198	50	29.4	5,000	-55 +250	Use: M17/86-00002
228	BC 0.1900	PTFE 0.620	1:BC	FG Braid-V 0.730	Al. Braid 0.788	0.682	50	29.4	7,000	-55 +250	Use: M17/161-00002



## RG Cable Descriptions

RG-/U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
228A	BC 0.1900	PTFE 0.620	1:BC	FG Braid-V 0.730	Al. Braid 0.788	0.682	50	29.4	7,000	-55 +250	Use: M17/161-00002
229	SC 7/.032 0.096	PTFE 0.285	1:SC	FG Braid-V 0.430	Al. Braid 0.460	0.144	50	29.4	5,000	-55 +250	Use: M17/65-RG166
230	TC 37/.0284 0.1988	Rubber-D 0.455	3:TC,GS,GS	Rubber-IV 0.740	NA		25	100.0	15,000	-40 +80	
231	BC Tube 0.162	Foam PE 0.450	Al. Tube	None	NA	0.118	50	25.0	5,000 peak	-55 +80	Per MIL-C-23806/IA
231A	BC 0.162	Foam PE 0.45	Al. Tube	None	NA	0.156	50	25.0	5,000 peak	-55 +80	Per MIL-C-23806/IB +Amendment 1
232	BC 0.300	PE Helix 0.758	Al. Tube .875"	PE-III A 1.015	NA	0.570	50	22.0	2,400	-55 +80 peak	
233	BC Tube .481/.591	PS Helix 1.472	Al. Tube	PE-III A 1.765	NA	1.050	50	22.0	4,700 peak	-55 +80	
234	BC Tube 1.015/1.570	PS Helix 2.775	Al. Tube	PE-III A 3.295	NA	3.110	50	22.0	8,700 peak	-55 +80	
235	SC 7/.0284 0.0852	Taped PTFE 0.255	2:SC	SIL/DAC/VI 0.450		0.160	50	29.5	5,000	-55 +80	Use M17/168-00001
236	BC 0.162	PS Helix 0.421	Al. Tube .500	None	NA	0.165	50	24.0	1,300	-55 +80 peak	
237	BC 0.162	PS Helix 0.421	Al. Tube .500	PE-III A 0.600	NA	0.195	50	24.0	1,300	-55 +80 peak	
238		CANCELLED	REPLACE WITH RG197/U								
239		CANCELLED	REPLACE WITH RG232/U								
240	BC Tube .481/.591	PS Helix 1.420	Al. Tube 1.625	None	NA	0.930	50	22.0	4,700 peak	-55 +80	
241		CANCELLED REPLACE WITH RG233									
242	BC Tube 1.036	PS Helix 2.850	Al. Tube 3.125	None	NA	2.700	50	22.0	8,700 peak	-55 +80	
243		CANCELLED REPLACE WITH RG234									
244	BC 0.102	PS Helix 0.421	Al. Tube .500	None	NA	0.118	75	15.5	1,200 peak	-55 +80	
245	BC 0.102	PS Helix 0.421	Al. Tube .500	PE-III A 0.600	NA	0.148	75	15.5	1,200 peak	-55 +80	
246	BC 0.1880	PS Helix 0.758	Al. Tube 0.875	None	NA	0.348	75	15.2	2,200 peak	-55 +80	
247	BC 0.1880	PS Helix 0.758	Al. Tube 0.875	PE-III A 1.015	NA	0.418	75	15.2	2,200 peak	-55 +80	
248	BC Tube .274/.374	PS Helix 1.472	Al. Tube 1.625	None	NA	0.948	75	15.0	4,300 peak	-55 +80	
249	BC Tube .274/.374	PS Helix 1.472	Al. Tube 1.625	PE-III A 1.765	NA	1.068	75	15.0	4,300 peak	-55 +80	
250	BC Tube .632/.732	PS Helix 2.850	Al. Tube 3.125	None	NA	2.395	75	15.0	8,500 peak	-55 +80	



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
251	BC Tube .632/.732	PS Helix 2.850	Al. Tube 3.125	PE-III A 3.295	NA	2.805	75	15.0	8,500 peak	-55 +80	
252	BC 0.1670	PE Tubes 0.456	Al. Tube 0.530	None	NA	0.175	50	24.0	1,000	-55 +80	M17/225-00001
253	BC 0.1670	PE Tubes 0.456	Al. Tube 0.530	PE 0.655	NA	0.225	50	24.0	1,000	-55 +80	M17/225-00001
254	SC 7/.0312 0.3110	PE Tubes 0.833	Al. Tube .953	PE 1.100	NA	0.655	50	24.0	1,860	-55 +80	M17/227-00001
255	BC 0.3110	PE Tubes 0.833	Al. Tube .953	None	NA	0.555	50	24.0	1,860	-55 +80	M17/227-00001
256	SC Tube .255/.311	PTFE Tubes 0.833	Al. Tube .953	None	NA	0.550	50	24.0	1,860	-55 +80	
257	BC Tube .486/.606	PS Tubes 1.622	Al. Tube 1.786	None	NA	1.200	50	24.0	3,640	-55 +80	
258	BC Tube .486/.606	PE Tubes 1.622	Al. Tube 1.786	PE 1.926	NA	1.380	50	24.0	3,640	-55 +80	
259	BC Tube 0.1150	PTFE Tubes 0.318	Al. Tube .390	None	NA	0.100	50	24.0	697	-55 +80	M17/223-00001
260	BC Tube 0.1150	PE Tubes 0.318	Al. Tube .390	PE-III A 0.450	NA	0.140	50	24.0	697	-55 +80	M17/223-00001
263	BC 0.1720	Air-space PTFE 0.421	Al. Tube .500	None	NA	0.170	50	21.5	1,300	(-40 +250 peak)	M17/225-00001
264	2:TC,2:BC 19/.0142 0.068	PE (ea core) 0.176	2:TC,2:BC,(BC)	PVC-II A 0.750	NA	0.336	36.8	41.0	2,000	-40 +80	Use RG264C/U
264A	2:TC,2:BC 19/.0142 0.068	PE (ea core) 0.176	2:TC,2:BC,(BC)	PUR 0.750	NA	0.327	36.8	41.0	2,000	-40 +80	Use RG264C/U
264C	2:TC,2:BC 0.068	PE (ea core) 0.186	2:TC,2:BC,(BC)	PUR 0.765	NA	0.327	40	38.4	2,000	-40 +80	Water tight per MIL-C-23020
265	BC Tube 0.677	PE Helix 1.578	CCS. Tube	PE-III A 2.070	NA		50	22.3	145 KW peak	-40 +80	
266	Cond. ovr Mag. core 0.0113 over 0.144	PE 0.285	75 Spiral wound wires	PVC-I 0.400	NA	0.120	1530	53.0	5,000 DC	-40 +80	Delay Line Cable
267	BC Tube 0.355	PS Helix	Corr. CCS Tube	PE-III A 1.190	NA		50	22.2	44 KW peak	-40 +80	
268	BC 0.161	PE Helix 0.350	Corr. BC Tube .350	None	NA	0.234	50	23.0	10 KW peak	-55 +80	
269	BC Tube .287/.358	PE Helix 0.795	Corr. BC Tube .795	None	NA	0.430	50	22.2	44 KW peak	-55 +80	
269A	BC Tube .287/.358	PE Helix 0.795	Corr. BC Tube .795	None	NA	0.430	50	22.2	44 KW peak	-55 +80	
270	BC Tube .588/.688	PE Helix 1.578	Corr. BC Tube 1.830	None	NA	0.875	50	22.3	145 KW peak	-55 +80	
270A	BC Tube .588/.688	PE Helix 1.578	Corr. BC Tube 1.830	None	NA	0.875	50	22.3	145 KW peak	-55 +80	
271-278	RECTANGULAR WAVE GUIDES COVERED BY MIL-W-85 See MIL HDBK216, para 6.17 - 6.23										



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Aarmor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
279	SCCS 19/.0050 0.025	Air-space PTFE 0.110	1:SC	FG Braid-V 0.145	NA	0.125	75	16.9	1,000	-55 +250	Extra flexible high temp.
280	BC 0.1144	Taped PTFE 0.327	2:SC	FEP-IX 0.468	NA	0.200	50	25.4	3,000	-55 +200	Low Loss High frequency
281	SC 19/ .0378 0.1890	Taped PTFE 0.500	2:SC	Sil/DAC-VI 0.720	NA	0.400	50	25.4	4,000	-55 +150	Low Loss High Power
282	SC 0.0253	Irradiated PE 0.099	2:SC	FEP 0.200	NA	0.031	54.5	28.2	4,500	-40 +150	
283	SC 19/ .0117 0.0585	Rubber-D 0.288	2:SC	Rubber-IV 0.475	NA	0.145	46	50.0	8,000	-55 +150	
284A	BC 0.2200	PE Helix 0.795	Corr.BC 1.005	None	NA	0.410	75	15.0	29 KW peak	-55 +80	
285A	BC 0.1140	PTFE Helix 0.795	Corr.BC 1.005	None	NA	0.430	100	13.0	22 KW peak	-55 +200	
286	BC Tube .360/.430	PE Helix 1.570	Corr.BC 1.830	None	NA	0.720	75	15.1	100 KW peak	-55 +80	
287	BC 0.1970	PE Helix 1.570	Corr.BC 1.830	None	NA	0.750	100	13.5	73 KW peak	-55 +80	
288	BC Tube 1.2221 /1.3330	PE Helix 2.960	CCS 3.75	None	NA	3.000	50	21.6	440 KW peak	-40 +80	
289	CCS Tube 0.740/0.820	PE Helix 2.960	CCS 3.75	None	NA	3.000	75	14.7	290 KW peak	-40 +80	
290-291	RECTANGULAR WAVE GUDES COVERED BY MIL-W-85 See MIL HDBK 216, para. 6.17 - 6.23.										
292	BC Tube 0.4300	PE Helix 1.570	Corr.BC 1.830	PE 2.000	NA	1.040	75	15.1	100 KW peak	-55 +80	
293	BC 0.1060	PE 0.375	1:SC	PE-III A 0.545	NA	0.160	50	30.8	7,000	-55 +80	Water tight cable per Mil-C-23020
293A	BC 0.1060	PE 0.370	1:SC	PE-III A 0.545	NA	0.160	50	30.8	7,000	-55 +80	Water tight cable per Mil-C-23020
294	1:BC, 1:TC (2cond) 0.0808	PE 0.472	1:TC	PE-III A 0.630	NA	0.205	95	16.3	3,000	-55 +80	Water tight cable per Mil-C-23020
294A	1:BC, 1:TC (2cond) 0.0808	PE 0.472	1:SC	PE-III A 0.630	NA	0.205	95	16.3	3,000	-55 +80	Water tight cable per Mil-C-23020
295	BC 0.195	PE 0.680	1:SC	PE-III A 0.895	NA	0.420	50	30.8	11,000	-55 +80	Water tight cable per Mil-C-23020
296	SC 37/.0336 0.2352	Silicone Rubber 0.906	1:SC	Neoprene 1.190	NA		50	36.4	13,800	-55 +80	
297	BC Tube 0.287/0.355	PTFE Helix 0.795	Corr.BC Tube	None	NA		50	21.4	44 KW peak	-55 +200	
298	CCS 7/.0201 0.0603	PE 0.115	None	Foam PE .650	NA	0.090				-55 +80	Buoyant Cable per Mil-C-22667
299-300	RECTANGULAR WAVE GUIDE										
301	HR 7/.0203 0.0609	PTFE 0.185	1:HR	FEP.IX .245	NA	0.056	50	29.4	3,000	-55 +200	Use M17/109-RG301
302	SCCS 0.025	PTFE 0.146	1:SC	FEP.IX .201	NA	0.031	75	19.5	2,300	-55 +200	Use M17/110-RG302



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
303	SCCS 0.039	PTFE 0.116	1:SC	FEP-IX .170	NA	0.030	50	29.4	1,900	-55 +200	Use M17/111-RG303
304	SCCS 0.059	PTFE 0.185	2:SC	FEP-IX .280	NA	0.088	50	29.4	3,000	-55 +200	Use M17/112-RG304
305	BC Tube .360/.430	FEP 1.570	BC Tube 1.830	PE-III A 1.990	NA		75	19.5	2,720	-55 +80	
306A	BC 0.173	Foam PE 0.801	Al.Tube .875	PE-III A 1.015	NA	0.545	75	16.9	5,700	-55 +80	Per Mil-C-23806
307	SC 19/.0058 0.029	Foam PE 0.146	2:SC PUR Int	PE-111A 0.270	NA	0.070	75	16.9	1,000	-55 +80	Use M17/116-RG307
307A	BC 19/.0058 0.029	Foam PE 0.146	2:SC PUR Int	PE-111A 0.270	NA	0.070	75	16.9	1,000	-55 +80	Use M17/116-RG307
308-315	BEAD SUPPORTED RIGID LINES, See MIL-R-9671										
316	SCCS 7/.0067 0.0201	PTFE 0.060	1:SC	FEP-IX 0.102	NA	0.012	50	29.4	1,200	-55 +80	Use M17/113-RG316
317	2: BC 7/.0290 0.0870	FEP 0.446	1:TC	Neprene 0.710	NA		95	15.4	10,000	-55 +80	Water blocked
318	BC Tube .287/.358	PE Helix 0.795	Corr. BC 1.005	PE-III A 1.125	NA	0.530	50	22.0	44KW peak	-55 +80	
319	BC Tube .588/.688	PE Helix 1.570	Corr. BC 1.830	PE-III A 2.000	NA	1.040	50	22.0	145 KW peak	-55 +80	
320	WAVE GUIDE									-55 +80	
321	Corr. BC Tube 1.1400	PE Helix	Corr. BC	None	NA	1.210	50	21.7	320 KW peak	-55 +80	
322	Corr. BC 1.1400	PE Helix	Corr. BC	PE 3.040	NA	1.780	50	21.7	320 KW peak	-55 +80	
323	BC Tube .312	Foam PE 0.3120	Corr. BC	PE 1.060	NA	0.420	50	25.4	1,480	-55 +80	Use M17/227-00001
324	BC Tube .312	Foam PE 0.3120	Corr. BC	None	NA	0.320	50	25.4	1,480	-55 +80	Use M17/227-00001
325	SCC Al. 19/0.020 0.1000	PE Spline 0.260	2:SC Strip	PUR 0.350	NA	0.100	50	26.3	750	-55 +80	Low loss
326	SCC Al. 19/0.040 0.2000	PE Spline 0.550	2:SC Strip	PUR 0.697	NA	0.240	50	26.3	1,700	-55 +80	Low loss
327	SCC Al. 19/0.064 0.3200	PE Spline 0.840	2:SC Strip	PUR 1.010	NA	0.550	50	26.3	2,500	-55 +80	Low loss
328	TC Braid 0.4850	Rubber H,J,H3 1.065	TC,GS,TC	Neoprene 1.460	NA	1.469	25	85.0	20,000	-55 +80	
329	TC 19/.0117 0.0585	Rubber H,J,H3 0.380	TC,GS,TC	Neoprene 0.700	NA	0.353	50	50.0	15,000	-55 +80	
330	SC	Foam PE	1:SC		NA		50	25.0			
331	CCA 0.1620	Foam PE 0.450	Al. Tube .500	PE-III A 0.600	NA	0.187	50	25.4	2,500	-55 +80	M17/225-00001
332	BC 0.280	Foam PE 0.801	Al. Tube .875	None	NA	0.466	50	25.4	4,500	-55 +80	M17/227-00001



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
333	CCA 0.2880	Foam PE 0.801	Al. Tube .875	PE-III A 1.015	NA	0.548	50	25.4	4,500	-55 +80	M17/227-00001
334	BC 0.098	Foam PE 0.450	Al. Tube .500	None	NA	0.109	75	16.9	2,500	-55 +80	Per MIL-C-23806
335	BC 0.098	Foam PE 0.450	Al. Tube .500	PE-III A 0.625	NA	0.143	75	16.9	2,500	-55 +80	Jacketed RG334/U
336	BC 0.173	Foam PE 0.801	Al. Tube .875	None	NA	0.315	75	16.9	4,000	-55 +80	Per MIL-C-23806
337-359	RECTANGULAR WAVE GUIDES COVERED BY MIL-W-85. See MIL HDBK 216, Para 6.17 - 6.23										
360	BC 0.243	Foam PE 0.676	Al. Tube .750	PE-III A 0.825	NA	0.397	50	25.4	4,000	-55 +80	Per MIL-C-23806
361-365	DATA NOT AVAILABLE										
366	BC 0.1600	Foam PE 0.540	Corr. BC	PE-III A 0.620	NA		50	25.4	4,000	-55 +80	M17/225-00001
367	Corr. BC	PE Helix	Corr. BC 5.200	PE-III A	NA	4.590	50	21.7 PEAK	830KW	-55 +80	
369	BC 0.117	PE Tubes 0.318	Al. Tube .390	PE-III A 0.470	NA	0.140	50	24.0	700	-55 +80	M17/223- 00001
370	BC 0.117	PE Tubes 0.318	Al. Tube .390	None	NA	0.100	50	24.0	700	-40 +80	M17/223- 00001
372-373	EXPERIMENTAL BUOYANT COAXIAL TRANSMISSION LINE										
374	BC 0.0285	PE 0.160	None	Foam PE 0.650	NA	0.097				-55 +80	Buoyant Antenna
375	RECTANGULAR WAVE GUIDE										
376	BC Tube 0.3120	Foam PE	Corr. Al. Tube	PE-III A 1.060	NA	0.390	50	25.4	6,000	-55 +80 00001	M17/227-
377	SC Tube 0.1650	PTFE Tubes	Al. Tube .530	None	NA	0.170	50	24.0	1,000	-55 +250	
378	BC Tube 0.7130	PE Helix	Corr. Al. Tube	PE-III A 2.000	NA	0.620	50	22.1	145 KW peak	-55 +80	
379-381	ELLIPTICAL WAVE GUIDES										
382	RIGID LINE										
383	2: (2000 pound break) 0.0403	PE	None	Foam PE 0.650	NA		100			-55 +80	Buoyant Twisted pair
384	BC 0.0508	PE	1: BC Strip	Foam PE 0.650	NA		50	30.8		-55 +80	Buoyant Antenna
385	SC 0.1530	Semi-solid PTFE 0.425	Corr. Al Tube	Optional 0.660	NA	0.178	50	25.4	1,500	-55 +250	Low loss cable per MIL-C-22931
386	CCS 0.0508	PE	Non-hosing	Foam PE 0.650	NA					-55 +80	Buoyant Antenna Cable
387	DATA NOT AVAILABLE										



## RG Cable Descriptions

RG-U Number	Conductor inches	Dielectric inches	Shields	Jacket inches	Armor inches	Weight lbs/foot	Impedance ohms	Capacitance pF/foot	Max Oper. Voltage vms	Temperature Range °C	Comments
388	SC	PE	SC	PE-III A 0.545	NA		50	30.8		-55 +80	Watertight Cable
389	BCCA I 0.2500	PE Spline 0.635	2:SC	PE-III A 0.875	NA	0.366	50	22.8	2,000	-55 +80	Low loss RG189/U
390	DATA	NOT AVAILABLE									
391	TC 7/.0159 0.0480	CPE & PE 0.285	1:TC	PVC-II A 0.405	NA	0.092	72	23.0	5,000	-55 +80	Use M17/126-RG391
392	TC 7/.0159 0.0480	CPE & PE 0.285	1:TC	PVC-II A 0.405	Al. braid 0.475	0.114	72	23.0	5,000	-55 +80	Use M17/126-RG392
393	SC 7/.0312 0.0936	PTFE 0.285	2:SC	FEP-IX 0.390	NA	0.165	50	29.4	5,000	-55 +200	Use M17/127-RG393
397	SC 7/.032 0.0960	Air-space PTFE 0.270	2:SC	FEP-IX 0.350	NA	0.125	50	25.4	2,000	-55 +200	Low loss RG393/U
400	SC 19/.0077 0.0384	PTFE 0.116	2:SC	FEP-IX 0.195	NA	0.050	50	29.4	1,900	-55 +200	Use M17/128-RG400
401	SC 0.0645	PTFE 0.215	BC. Tube .250	None	NA	0.081	50	29.4	3,000	-55 +90	Use M17/129-RG401
402	SCCS 0.036	PTFE 0.119	BC. Tube .141	None	NA	0.0320	50	29.4	2,500	-55 +100	Use M17/130-RG402
403	SC 7/.004 0.012	PTFE 0.034	2:SC, FEP Int.Lay	FEP-IX 0.116	NA	0.0075	50	29.4	1,000	-55 +200	Use M17/131-RG403
404	SC 7/.004 0.012	PTFE & CPT 0.034	1:SC	FEP-IX 0.072	NA	0.0054	50	31.5	2,000	-55 +200	Use M17/132-00001
405	SCCS 0.0201	PTFE 0.066	BC Tube .0865	None	NA	0.0150	50	29.4	1,500	-55 +100	Use M17/133-RG405



# GENERAL ELECTRICAL PROPERTIES 電子特性

	Cable Type	Impedance (ohms)	Capacitance (pF/foot)	Velocity (%)	Dielectric Constant	Time Delay (nS/foot)	
50 OHM	Solid Polyethylene	50	30.8	65.9	2.30	1.54	
	Foam PE	50	24.5	83.0	1.45	1.22	
	Foam PE	50	24.2	84.0	1.42	1.21	
	Foam PE	50	23.9	85.0	1.38	1.20	
	Foam PE	50	23.6	86.0	1.35	1.18	
	Foam PE	50	23.3	87.0	1.32	1.17	
	Foam PE	50	23.1	88.0	1.29	1.16	
	Solid PTFE	50	29.2	69.5	2.07	1.46	
	Tape PTFE	50	28.6	71.0	1.98	1.43	
	Low Density PTFE	50	26.7	76.0	1.73	1.34	
	Low Density PTFE	50	25.4	80.0	1.56	1.27	
	75 OHM	Solid Polyethylene	75	20.6	65.9	2.30	1.54
Foam PE		75	16.3	83.0	1.45	1.22	
Foam PE		75	16.1	84.0	1.42	1.21	
Foam PE		75	15.9	85.0	1.38	1.20	
Foam PE		75	15.8	86.0	1.35	1.18	
Foam PE		75	15.6	87.0	1.32	1.17	
Foam PE		75	15.4	88.0	1.29	1.16	
Solid PTFE		75	19.5	69.5	2.07	1.46	
Low Density PTFE		75	17.8	76.0	1.73	1.34	
Low Density PTFE		75	16.9	80.0	1.56	1.27	
MISC		Solid Polyethylene	95	16.2	65.9	2.30	1.54
		Foam PE	95	12.6	85.0	1.38	1.20
	Air Spaced PE	95	12.6	85.0	1.38	1.20	
	Solid PTFE	95	15.4	69.5	2.07	1.46	
	Air Spaced PE	125	09.6	85.0	1.38	1.20	
	Air Spaced PE	185	06.5	85.0	1.38	1.20	

## PROPERTIES OF WIRE AND CABLE INSULATING MATERIALS 材料特性

Material	Dielectric Constant	Dissipation Factor	Volume- Resistivity (ohm-cm)	Operating Temperature (Range °C)
PTFE	2.07	0.0003	10 <sup>19</sup> th	-75 to +250
Polyethylene	2.3	0.0003	10 <sup>16</sup> th	-65 to +80
Foam Polyethylene	1.29 - 1.64	0.0001	10 <sup>12</sup> th	-65 to +100
Polyvinylchloride	3.0 - 8.0	0.07 - 0.16	2 x 10 <sup>12</sup> th	-50 to +105
Polyamide	3.5 - 4.6	0.03 - 0.4	4 x 10 <sup>14</sup> th	-60 to +120
Silicone Rubber	2.1 - 3.5	0.007 - 0.016	10 <sup>13</sup> th	-70 to +250
Ethylene Propylene	2.24	0.00046	10 <sup>17</sup> th	-40 to +105
FEP	2.1	0.0007	10 <sup>18</sup> th	-70 to +200
Low Density PTFE	1.38 - 1.73	0.00005	10 <sup>19</sup> th	-75 to +250
Foam FEP	1.45	0.0007	10 <sup>18</sup> th	-75 to +200
Polyimide	3.0 - 3.5	0.002 - 0.003	10 <sup>13</sup> th	-75 to +300
PFA	2.1	0.001	10 <sup>16</sup> th	-75 to +260
ETFE	2.6	0.005	10 <sup>16</sup> th	-75 to +150
ECTFE	2.5	0.0015	10 <sup>16</sup> th	-65 to +150
PVDF	7.8	0.02	10 <sup>14</sup> th	-75 to +125



# MATERIALS ABBREVIATIONS LEGEND 材料名詞縮寫

## CONDUCTORS & BRAID MATERIALS

AL	Aluminum
BC	Bare Copper
BeCu	Beryllium-Copper Alloy 172
BCCAI	Bare Copper Clad Aluminum
CCS	Bare Copper Clad Steel
GS	Galvanized Steel
HR	High Resistance Wire
MW	Magnet Wire
NC	Nickel Covered Copper
SA	Silver Covered Alloy
SC	Silver Covered Copper
SCBeCu	Silver Covered Beryllium Copper
SCCadBr	Silver Covered Cadmium Bronze
SCCA1	Silver Covered Copper Clad Aluminum
SCCS	Silver Covered Copper Clad Steel
SNCCS	Silver Covered Nickel Covered Copper Clad Steel
SCS	Silver Covered Copper Strip
TC	Tinned Copper

## DIELECTRIC MATERIALS

PE	Solid Low Density Polyethylene
PTFE	Solid Polytetrafluoroethylene
LDTFE	Low Density PTFE
Foam PE	Gas Injected Foam PE
FEP	Solid Fluorinated Ethylene Propylene
CPT	Conductive PTFE
CPE	Conductive Polyethylene (Type A-5 per MIL-C-17)
Rubber	per MIL-C-17 (obsolete)

## INTERLAYER MATERIALS

PE	Solid Polyethylene
PTFE	Solid Polytetrafluoroethylene
MY	Polyester
KP	Polyimide
ALMY	Aluminum-Polyester Laminate
ALKP	Aluminum-Polyimide Laminate
CPC	Copper-Polyester-Copper Laminate

## JACKET MATERIALS

E-CTFE	Ethylene Chlorotrifluoroethylene Type XI per MIL-C-17
ETFE	Ethylene Tetrafluoroethylene Copolymer Type X per MIL-C-17
FEP	Fluorinated Ethylene Propylene Type IX per MIN-C-17
FG Braid	Fiberglass; Impregnated Type V per MIL-C-17
PE	Clear Polyethylene Type III per MIL-C-17
LS/LT	Low Smoke/Low Toxicity (XLPE)
PE	Polyethylene, black HMW Type IIIA per MIL-C-17
PFA	Perfluoroalkoxy Type XIII per MIL-C-17
PTFE	Polytetrafluoroethylene Type VIIA per MIL-C-17
PUR	Polyurethane, black Type XII per MIL-C-17
PVC-I	Polyvinyl Chloride, black (contaminating) Type 1 per MIL-C-17
PVC-II	Polyvinyl Chloride, grey (non-contaminating) Type II per MIL-C-17
PVC-IIA	Polyvinyl Chloride, black (non-contaminating) Type IIA per MIL-C-17
Rubber	Per MIL-C-17 (obsolete)
SIL/DAC	Dacron Braid over Silicone Rubber Type VI per MIL-C-17
TPE	Thermo Plastic Elastomer
XLPE	Crosslinked Polyolefin Type XIV per MIL-C-17

# COAXIAL CABLE EQUATIONS LEGEND 代碼意義

Symbol	Definition	Units
$\alpha$	= Attenuation in dB/100 feet	dB/100 feet
$\epsilon$	= Dielectric constant	
$\Gamma$	= Reflection coefficient	
$\phi$	= Electrical length	degrees
<b>C</b>	= capacitance	pF/foot
<b>L</b>	= Inductance	uH/foot
<b>Zo</b>	= Impedance	ohms
<b>Vp</b>	= Velocity of propagation	%
<b>df</b>	= Dissipation factor	
<b>Td</b>	= Time delay	nS/foot
<b>F</b>	= Frequency	MHz
<b>PTC</b>	= Phase temperature coefficient	ppm/C
$\Delta T$	= Change in temperature (t2 to t1)	C
<b>LTH</b>	= Length	feet
$\Delta\phi$	= Change in electrical length (t1 to t2)	degrees
<b>D</b>	= dielectric diameter	inches
<b>d</b>	= center conductor diameter	inches
<b>ds</b>	= Braid wire size	inches
<b>Fbd</b>	= Braid factor	

Symbol	Definition	Units
<b>Fco</b>	= Cutoff frequency	GHz
<b>C</b>	= Braid carriers	
<b>N</b>	= Braid ends per carrier	
<b>t</b>	= Flat strip thickness	inches
<b>w</b>	= Flat strip width	inches
<b>SRL</b>	= Return loss	dB
<b>VSWR</b>	= Voltage standing wave ratio	
<b>FWD</b>	= Forward power	dB
<b>RFL</b>	= Reflected power	dB
<b>MML</b>	= Mismatch loss	dB
<b>ME</b>	= Match efficiency	%
<b>k<sub>s</sub></b>	= 1.0 for solid center conductor = 0.939 for 7 strand center conductor = 0.97 for 19 strand center conductor	
<b>log</b>	= logarithm to base 10	
<b>ln</b>	= logarithm to base e	
<b>k<sub>1</sub></b>	= resistive loss constant	
<b>k<sub>2</sub></b>	= dielectric loss constant	