

M17/MIL-C-17 Coaxial Cable Specifications

M17 Part No.	M17 QPL	TMS Part No.	Conductor inches (mm)	Dielectric (mm)	Shields inches (mm)	Jacket inches (mm)	Armor inches (mm)	Weight lb/ft (kg/m)	Impedance dms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M1778-00001	17-1102-85	AA-8212	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 +176 (-40 +85)	0.05 - 3GHz Swept	Temperature-cycled M1778-RG217
M1779-RG218	17-1102-85	AA-3411	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 +185 (-40 +85)	0.05 - 1GHz Swept	Use M17/193-00001 LS/LT Jacket
M1779-RG219	17-1102-85	AA-3412	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 +185 (-40 +85)	0.05 - 1GHz Swept	Use M17/193-00002 LS/LT Jacket
M17/81-00001	17-354-88	AA-6002	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 +185 (-40 +85)	1 GHz UnSwept	
M17/81-00002	17-354-88	AA-6003	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 +185 (-40 +85)	1 GHz UnSwept	Armored M17/81-00001
M17/84-RG223	17-303-83	AA-3413	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 +185 (-40 +85)	.04-12.4 GHz Swept	Use M17/194-00001 LS/LT Jacket
M17/86-00001	17-598-81	AA-5077	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)	-67 +392 (-55 +200)	400 MHz UnSwept	
M17/86-00002	17-598-81	AA-5078	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)	-67 +392 (-55 +200)	400 MHz UnSwept	Armored M17/86-00001
M17/87-00001	17-355-88	AA-5168	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)	-67 +392 (-55 +200)	400 MHz UnSwept	
M17/90-RG71	17-280-83	AA-4444	CCS 0.0253 (0.54)	Air-space PE 0.146 (3.71)	34BC:36TC 0.198 (5.03)	PE-IIIA 0.245 (6.22)	NA	0.050 (0.074)	93 +/-5 81	13.5 (44.3)	1,000 (-67 +185)	-67 +185 (-55 +85)	1GHz UnSwept	Use M17/195-00001 LS/LT Jacket
M17/92-RG115	17-598-81	AA-3824	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)	-67 +392 (-55 +200)	.05-12.4 GHz Swept	
M17/92-00001	17-598-81	AA-5308	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)	-67 +392 (-55 +200)	.05-12.4 GHz Swept	
M17/93-RG178	17-666-83	AA-3414	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)	-67 +392 (-55 +200)	.05-3 GHz Swept	
M17/93-00001	17-867-84	AA-4762	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)	-67 +446 (-55 +230)	.05-3 GHz Swept	
M17/94-RG179	17-809-77	AA-3415	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)	-67 +392 (-55 +200)	3 GHz UnSwept	
M17/95-RG180	17-810-77	AA-3416	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)	-67 +392 (-55 +200)	3 GHz UnSwept	
M17/97-RG210	17-668-83	AA-4763	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)	-67 +392 (-55 +200)	3 GHz UnSwept	
M17/100-RG133	No QPL'd Source	NA	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 +185 (-40 +85)	1 GHz UnSwept	
M17/109-RG301	No QPL'd Source	NA	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)	-67 +392 (-55 +200)	3 GHz UnSwept	
M17/110-RG302	17-425-84	AA-3826	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)	-67 +392 (-55 +200)	3 GHz UnSwept	
M17/111-RG303	17-811-77	AA-3417	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)	-67 +392 (-55 +200)	0.05-3 GHz Swept	