

Mil-C-17

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Construction Detail

Mil-C-17 Rev. "G" Low Temperature Cables

Military Part Number	Thermax/CDT Code	Impedance Type	Conductor O.D. (area) inch (mm ²)	Insulation Description inch (mm)	Braid Description inch (mm)	Jacket Description inch (mm)	Weight lbs./1,000' (kg/km)
M17/028-RG58	M17/028-RG58	50 ohm coax	19/0072 TPC 0.0355 (.499)	Polyethylene 0.116 (2.95)	Single 36 TPC 0.139 (3.53)	PVC 0.195 (4.95)	25.0 (37.2)
M17/029-RG59	M17/029-RG59	75 ohm coax	Bare CW 0.0226 (.259)	Polyethylene 0.146 (3.71)	Single 34 Bare 0.174 (4.42)	PVC 0.242 (6.15)	34.0 (50.6)
M17/119-RG174	M17/119-RG174	50 ohm coax	7/0063 BCW 0.0189 (.141)	Polyethylene 0.060 (1.52)	Single 38 TPC 0.078 (1.98)	PVC 0.110 (2.79)	8.40 (12.5)
M17/075-RG214	M17/075-RG214	50 ohm coax	7/0296 SPC 0.089 (3.11)	Polyethylene 0.285 (7.24)	Double 34 TPC 0.340 (8.64)	PVC 0.425 (10.8)	120 (179)
M17/084-RG223	M17/084-RG223	50 ohm coax	SPC 0.035 (.621)	Polyethylene 0.116 (2.95)	Double 36 SPC 0.162 (4.11)	PVC 0.212 (5.38)	35.5 (52.8)
M17/163-00001	M17/163-00001 Unswpt 213	50 ohm coax	7/0296 SPC 0.089 (3.11)	Polyethylene 0.285 (7.24)	Single 33 Bare 0.340 (8.64)	PVC 0.405 (10.3)	110 (164)
M17/164-00001	M17/164-00001 Unswpt 214	50 ohm coax	7/0296 SPC 0.089 (3.11)	Polyethylene 0.285 (7.24)	Double 34 SPC 0.340 (8.64)	PVC 0.425 (10.8)	120 (179)

Electrical Performance Data

Thermax/CDT Code	Impedance Code	Nom Capacitance pF/ft (pF/m)	Max. Working Voltage	Max. Attenuation dB/100'			Max. Power Watts		
				100 MHz	400 MHz	1,000 MHz	100 MHz	400 MHz	1,000 MHz
M17/028-RG58	50 ohm coax	29.0 (95.1)	1,400	--	17.0	28.0	180	85	50
M17/029-RG59	75 ohm coax	19.5 (64.0)	1,700	--	9.00	16.0	310	135	75
M17/119-RG174	50 ohm coax	30.5 (100)	1,100	10.1	25.0	45.0	52	26	17
M17/075-RG214	50 ohm coax	30.5 (100)	3,700	2.70	5.50	12.0	850	330	170
M17/084-RG223	50 ohm coax	30.5 (100)	1,400	4.80	11.5	20.0	200	85	50
M17/163-00001 Unswpt 213	50 ohm coax	30.5 (100)	2,000	--	4.70	--	850	350	190
M17/164-00001 Unswpt 214	50 ohm coax	30.5 (100)	3,700	--	5.50	--	850	330	170

Commercial Coaxial Cables

Military Part Number	Thermax/CDT Code	Impedance Type	Conductor O.D. (area) inch (mm ²)	Insulation Description inch (mm)	Braid Description inch (mm)	Jacket Description inch (mm)	Weight lbs./1,000' (kg/km)
Mil-C-17 Rev D	RG-58 C/U	50 ohm coax	19/0072 TPC 0.036 (.499)	Polyethylene 0.116 (2.95)	Single 36 TPC 0.139 (3.53)	PVC 0.195 (4.95)	25.0 (37.2)
Mil-C-17 Rev D	RG-59 B/U	75 ohm coax	Bare CW 0.023 (.259)	Polyethylene 0.146 (3.71)	Single 34 Bare 0.174 (4.42)	PVC 0.242 (6.15)	34.0 (50.6)
Mil-C-17 Rev D	RG-62 A/U	93 ohm coax	Bare CW 0.025 (.324)	Air Spaced PE 0.146 (3.71)	Single 34 Bare 0.174 (4.42)	PVC 0.242 (6.15)	33.0 (49.1)
Mil-C-17 Rev D	RG-174 A/U	50 ohm coax	7/0063 BCW 0.019 (.141)	Polyethylene 0.060 (1.52)	Single 38 TPC 0.078 (1.98)	PVC 0.110 (2.79)	8.40 (12.5)
Mil-C-17 Rev D	RG-178 B/U	50 ohm coax	7/38 SPCW 0.012 (.057)	Extruded PTFE 0.034 (0.864)	Single 38 SPC 0.051 (1.30)	Extruded FEP 0.071 (1.80)	5.42 (8.07)
Mil-C-17 Rev D	RG-179 A/U	75 ohm coax	7/38 SPCW 0.012 (.057)	Extruded PTFE 0.063 (1.60)	Single 38 SPC 0.081 (2.06)	Extruded FEP 0.100 (2.54)	9.68 (14.4)
Mil-C-17 Rev D	RG-187 A/U	75 ohm coax	7/38 SPCW 0.012 (.057)	Extruded PTFE 0.063 (1.60)	Single 38 SPC 0.081 (2.06)	Taped PTFE 0.103 (2.62)	10.4 (15.5)
Mil-C-17 Rev D	RG-188 A/U	50 ohm coax	7/0067 SPCW 0.020 (.159)	Extruded PTFE 0.060 (1.52)	Single 38 SPC 0.078 (1.98)	Taped PTFE 0.100 (2.54)	10.3 (15.3)
Mil-C-17 Rev D	RG-180 B/U	95 ohm coax	7/38 SPCW 0.012 (.057)	Extruded PTFE 0.102 (2.59)	Single 38 SPC 0.120 (3.05)	Extruded FEP 0.141 (3.58)	18.3 (27.2)
Mil-C-17 Rev D	RG-196 A/U	50 ohm coax	7/38 SPCW 0.012 (.057)	Extruded PTFE 0.034 (0.864)	Single 38 SPC 0.052 (1.32)	Taped PTFE 0.074 (1.88)	5.63 (8.38)
Mil-C-17 Rev D	RG-214 /U	50 ohm coax	7/0296 SPC 0.089 (3.11)	Polyethylene 0.285 (7.24)	Double 34 SPC 0.340 (8.64)	PVC 0.425 (10.8)	120 (179)
Mil-C-17 Rev D	RG-316 /U	50 ohm coax	7/0067 SPCW 0.020 (.159)	Extruded PTFE 0.060 (1.52)	Single 38 SPC 0.078 (1.98)	Extruded FEP 0.098 (2.49)	10.0 (14.9)

All values nominal unless indicated otherwise.

Thermax/CDT Code	Impedance Type	Nom. Capacitance pF/ft (pF/m)	Max. Working Voltage	Max. Attenuation dB/100'			Max. Power Watts		
				100 MHz	400 MHz	1,000 MHz	100 MHz	400 MHz	1,000 MHz
RG-58 C/U	50 ohm coax	29.0 (95.1)	1,400	--	17.0	28.0	180	85	50
RG-59 B/U	75 ohm coax	19.5 (64.0)	1,700	--	9.00	16.0	310	135	75
RG-62 A/U	93 ohm coax	13.5 (44.3)	750	--	8.00	13.0	270	90	45
RG-174 A/U	50 ohm coax	30.5 (100)	1,100	10.1	25.0	45.0	52	26	17
RG-178 B/U	50 ohm coax	29.2 (95.8)	750	16.0	33.0	52.0	255	113	66
RG-179 A/U	75 ohm coax	19.5 (64.0)	900	--	21.0	--	880	420	260
RG-187 A/U	75 ohm coax	19.5 (64.0)	900	--	21.0	--	880	420	260
RG-188 A/U	50 ohm coax	29.5 (96.8)	900	11.0	21.0	38.0	430	210	130
RG-180 B/U	95 ohm coax	15.5 (50.8)	1,000	--	17.0	--	740	370	230
RG-196 A/U	50 ohm coax	29.2 (95.8)	750	16.0	33.0	52.0	255	113	66
RG-214 /U	50 ohm coax	30.5 (100)	3,700	2.70	6.80	12.0	850	330	170
RG-316 /U	50 ohm coax	29.5 (96.8)	900	11.0	21.0	38.0	430	210	130

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