

Standard Copper 50 ohm Semi-Rigid Cables

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CarlisleIT Description		UT-085C-TP	UT-085C-SP	UT-141A-HA	UT-141A-H-TP	UT-141A
MIL-DTL-17 Description		UT-085C-TP-M17	-	UT-141-HA-M17	UT-141-HA-TP-M17	UT-141-SA-M17
MIL-DTL-17 Part Number		M17/133-00009	-	M17/130-RG-402	M17/130-00001	M17/130-00004
Dimensions		Units				
Outer Conductor Diameter	inch	0.0865 +0.0020/-0.0010	0.0865 +0.0020/-0.0010	0.141 ± 0.001	0.141 +0.002/-0.001	0.141 ± 0.001
	millimeter	2.197 +0.051/-0.025	2.197 +0.051/-0.025	3.581 ± 0.025	3.581 +0.051/-0.025	3.581 ± 0.025
Dielectric Diameter	inch	0.066 ± 0.001	-	0.1175 ± 0.0010	0.1175 ± 0.0010	0.1175 ± 0.0010
	millimeter	1.676 ± 0.025	-	2.985 ± 0.025	2.985 ± 0.025	2.985 ± 0.025
Center Conductor Diameter	inch	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007
	millimeter	0.5105 ± 0.0127	0.5105 ± 0.0127	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178
Straight Length (Maximum)	feet	20	20	20	20	20
	meter	6.10	6.10	6.10	6.10	6.10
Coiled Length (Maximum) ¹	feet	150	150	150	150	150
	meter	45.72	45.72	45.72	45.72	45.72
¹ Add "TYPE" to the part description for coiled lengths, example: UT-034-TYPE						
Materials						
Outer Conductor		Copper	Copper	Copper	Copper	Copper
Outer Conductor Plating		Tin	Silver	None	Tin	None
Dielectric		PTFE	PTFE	PTFE	PTFE	PTFE
Center Conductor		SPC	SPC	SPCW	SPCW	SPCW
RoHS Compliant		Yes	Yes	Yes	Yes	Yes
Mechanical Characteristics						
Outer Conductor Integrity Temp.	°C	175	175	175	175	175
Operating Temperature (Max.)	°C	125	125	125	125	125
Inside Bend Radius (Minimum)	inch	0.050	0.050	0.250	0.250	0.075
	millimeter	1.270	1.270	6.350	6.350	1.905
Weight	lbs/100 ft	1.43	1.43	3.29	3.29	3.29
	kg/100 m	2.15	2.15	4.94	4.94	4.94
Electrical Characteristics						
Characteristic Impedance	ohm	50.0 ± 1.5	50.0 ± 1.5	50.0 ± 1.0	50.0 ± 1.0	50.0 ± 1.0
Capacitance	pF/ft	29.0	29.0	29.0	29.0	29.0
	pF/m	95.2	95.2	95.2	95.2	95.2
Velocity of Propagation	%	70	70	70	70	70
Corona Extinction Voltage	VRMS @ 60 Hz	1500	1500	1900	1900	1900
Voltage Withstanding	VRMS @ 60 Hz	5400	5400	9600	9600	9600
Higher Order Mode Frequency	GHz	61	61	34	34	34
Attenuation (dB/100 ft, Typical)	0.5 GHz	13.6	13.6	7.6	7.6	7.6
	1.0 GHz	19.5	19.5	11.3	11.3	11.3
	5.0 GHz	46.0	46.0	27.6	27.6	27.6
	10.0 GHz	67.4	67.4	41.6	41.6	41.6
	18.0 GHz	94.3	94.3	59.6	59.6	59.6
	26.5 GHz	118.3	118.3	76.2	76.2	76.2
	40.0 GHz	151.5	151.5	-	-	-
	50.0 GHz	173.8	173.8	-	-	-
	65.0 GHz	-	-	-	-	-
	90.0 GHz	-	-	-	-	-
Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	190.3	173.5	600.4	483.5	600.4
	1.0 GHz	133.2	121.5	450.0	336.2	450.0
	5.0 GHz	57.2	52.2	180.0	140.4	180.0
	10.0 GHz	39.3	35.8	120.0	94.6	120.0
	18.0 GHz	28.3	25.8	83.0	66.8	83.0
	26.5 GHz	22.7	20.7	65.6	52.7	65.6
	40.0 GHz	17.9	16.3	-	-	-
	50.0 GHz	15.7	14.3	-	-	-
	65.0 GHz	-	-	-	-	-
	90.0 GHz	-	-	-	-	-