

Standard Copper 50 ohm Semi-Rigid Cables

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CarlisleIT Description		UT-056-STR	UT-070C	UT-085-H	UT-085-H-TP	UT-085C-H
MIL-DTL-17 Description		-	-	UT-085-H-M17	UT-085-H-TP-M17	UT-085C-H-M17
MIL-DTL-17 Part Number		-	-	M17/133-RG-405	M17/133-00001	M17/133-00002
Dimensions		Units				
Outer Conductor Diameter	inch	0.056 ± 0.002	0.070 ± 0.001	0.0865 ± 0.0010	0.0865 +0.0020/-0.0010	0.0865 ± 0.0010
	millimeter	1.422 ± 0.051	1.778 ± 0.025	2.197 ± 0.025	2.197 +0.051/-0.025	2.197 ± 0.025
Dielectric Diameter	inch	-	-	0.066 ± 0.001	0.066 ± 0.001	0.066 ± 0.001
	millimeter	-	-	1.676 ± 0.025	1.676 ± 0.025	1.676 ± 0.025
Center Conductor Diameter	inch	7 x 0.004 ± 0.0005	0.0179 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005
	millimeter	7 x 0.1016 ± 0.0127	0.4547 ± 0.0127	0.5105 ± 0.0127	0.5105 ± 0.0127	0.5105 ± 0.0127
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	50	50	150	150	150
	meter	15.24	15.24	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		None	None	None	Tin	None
Dielectric		PTFE	PTFE	PTFE	PTFE	PTFE
Center Conductor		Stranded SPCW	SPC	SPCW	SPCW	SPC
RoHS Compliant		Yes	Yes	Yes	Yes	Yes
Mechanical Characteristics						
Outer Conductor Integrity Temp.	°C	200	135	175	175	175
Operating Temperature (Max.)	°C	175	100	125	125	125
Inside Bend Radius (Minimum)	inch	0.063	0.125	0.125	0.125	0.125
	millimeter	1.600	3.175	3.175	3.175	3.175
Weight	lbs/100 ft	0.72	0.80	1.42	1.42	1.43
	kg/100 m	1.08	1.20	2.13	2.13	2.15
Electrical Characteristics						
Characteristic Impedance	ohm	50.0 ± 4.0	50.0 ± 1.0	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	1000	1200	1500	1500	1500
Voltage Withstanding	VRMS @ 60 Hz	3000	4800	5400	5400	5400
Higher Order Mode Frequency	GHz	111	68	61	61	61
Attenuation (dB/100 ft, Typical)	0.5 GHz	24.7	15.2	13.6	13.6	13.6
	1.0 GHz	35.2	21.7	19.5	19.5	19.5
	5.0 GHz	81.0	50.9	46.0	46.0	46.0
	10.0 GHz	117.0	74.4	67.4	67.4	67.4
	18.0 GHz	160.8	103.7	94.3	94.3	94.3
	26.5 GHz	199.0	129.7	118.3	118.3	118.3
	40.0 GHz	250.6	165.5	151.5	151.5	151.5
	50.0 GHz	284.6	189.4	173.8	173.8	173.8
	65.0 GHz	331.2	222.6	-	-	-
	90.0 GHz	400.9	-	-	-	-
Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	107.3	124.0	232.0	190.3	232.0
	1.0 GHz	75.4	86.9	162.5	133.2	162.5
	5.0 GHz	33.0	37.4	69.8	57.2	69.8
	10.0 GHz	23.0	25.7	47.9	39.3	47.9
	18.0 GHz	16.8	18.6	34.6	28.3	34.6
	26.5 GHz	13.6	14.9	27.7	22.7	27.7
	40.0 GHz	10.9	11.8	21.8	17.9	21.8
	50.0 GHz	9.6	10.3	19.1	15.7	19.1
	65.0 GHz	8.3	8.8	-	-	-
	90.0 GHz	6.9	-	-	-	-