

## Standard non-50 ohm Impedance Semi-Rigid Cables

CarlisleIT Description		UT-141C-75	UT-250-75	UT-085-93	UT-130-93	UT-034-95	UT-141-100
CarlisleIT Description (Tin Plated)		UT-141C-75-TP	UT-250-75-TP	UT-085-93-TP	UT-130-93-TP	UT-034-95-TP	UT-141-100-TP
Dimensions		Units					
Outer Conductor Diameter (+ 0.001 inch for tin plate)	inch	0.141 ± 0.001	0.047 ± 0.001	0.141 ± 0.001	0.141 ± 0.001	0.085 +0.002/-0.001	0.141 ± 0.001
	millimeter	3.581 ± 0.025	1.194 ± 0.025	3.581 ± 0.025	3.581 ± 0.025	2.159 +0.051/-0.025	3.581 ± 0.025
Center Conductor Diameter	inch	0.0508 ± 0.0010	0.0071 ± 0.0005	0.0201 ± 0.0005	0.0226 ± 0.0005	0.0113 ± 0.0005	0.0201 ± 0.0005
	millimeter	1.2903 ± 0.0254	0.1803 ± 0.0127	0.5105 ± 0.0127	0.5740 ± 0.0127	0.2870 ± 0.0127	0.5105 ± 0.0127
Straight Length (Maximum)	feet	20	20	20	20	20	20
	meter	6.10	6.10	6.10	6.10	6.10	6.10
Materials							
Outer Conductor		Copper	Copper	Copper	Copper	Copper	Copper
Outer Conductor Plating		None	None	None	None	None	None
Dielectric		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Center Conductor		SPC	SPCW	SPCW	SPCW	SPCW	SPCW
RoHS Compliant		Yes	Yes	Yes	Yes	Yes	Yes
Mechanical Characteristics							
Outer Conductor Integrity Temp.	°C	175	150	150	175	150	150
Operating Temperature (Max.)	°C	125	100	125	125	125	125
Inside Bend Radius (Minimum)	inch	0.250	0.500	0.125	0.188	0.050	0.250
	millimeter	6.350	12.700	3.175	4.775	1.270	6.350
Weight	lbs/100 ft	3.10	9.15	1.03	2.86	0.19	3.03
	kg/100 m	4.65	13.74	1.55	4.29	0.29	4.55
Electrical Characteristics							
Characteristic Impedance	ohm	75.0 ± 1.5	75.0 ± 1.5	93.0 ± 2.0	93.0 ± 1.5	95.0 ± 4.0	100.0 ± 4.0
Capacitance	pF/ft	19.3	19.3	15.6	15.6	15.3	14.5
	pF/m	63.5	63.5	51.2	51.2	50.1	47.6
Velocity of Propagation	%	70	70	70	70	70	70
Corona Extinction Voltage	VRMS @ 60 Hz	2000	3000	1200	1500	1000	1500
Voltage Withstanding	VRMS @ 60 Hz	11400	20700	7500	10800	2700	12600
Higher Order Mode Frequency	GHz	38	21	65	46	177	41
Attenuation (dB/100 ft, Typical)	0.5 GHz	8.4	4.8	15.6	11.2	42.5	11.1
	1.0 GHz	12.1	7.1	22.3	16.1	60.4	15.9
	5.0 GHz	29.4	18.1	52.2	38.2	137.4	37.9
	10.0 GHz	44.1	28.1	76.3	56.4	196.7	56.0
	18.0 GHz	62.9	41.4	106.1	79.5	267.7	79.0
	26.5 GHz	80.2	-	132.6	100.4	328.7	99.7
	40.0 GHz	-	-	169.2	129.5	410.1	128.7
	50.0 GHz	-	-	193.5	-	462.8	-
	65.0 GHz	-	-	227.3	-	534.4	-
Power (Watts CW @ 20 °C, Maximum for non plated outer conductor)	0.5 GHz	549.1	1,234.0	159.4	380.6	28.2	332.3
	1.0 GHz	382.3	849.1	111.8	266.1	19.9	232.2
	5.0 GHz	160.6	341.0	48.2	113.5	8.8	98.9
	10.0 GHz	108.6	224.0	33.2	77.6	6.1	67.5
	18.0 GHz	77.1	154.2	24.0	55.7	4.5	48.4
	26.5 GHz	61.0	-	19.3	44.5	3.7	38.6
	40.0 GHz	-	-	15.3	34.9	3.0	30.2
	50.0 GHz	-	-	13.4	-	2.6	-
	65.0 GHz	-	-	11.5	-	2.3	-
90.0 GHz	-	-	-	-	1.9	-	