

Standard non-50 ohm impedance Semi-Rigid Cables

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CarlisleIT Description		UT-020-13	UT-085C-15	UT-141C-15	UT-034C-17	UT-062-18
CarlisleIT Description (Tin Plated)		UT-020-13-TP	UT-085C-15-TP	UT-141C-15-TP	UT-034C-17-TP	UT-062-18-TP
Dimensions		Units				
Outer Conductor Diameter (+ 0.001 inch for tin plate)	inch	0.023 ± 0.001	0.0865 ± 0.0010	0.141 ± 0.001	0.034 ± 0.001	0.062 ± 0.001
	millimeter	0.584 ± 0.025	2.197 ± 0.025	3.581 ± 0.025	0.864 ± 0.025	1.575 ± 0.025
Center Conductor Diameter	inch	0.0126 ± 0.0005	0.0453 ± 0.0005	0.0800 ± 0.0010	0.0159 ± 0.0005	0.0320 ± 0.0005
	millimeter	0.3200 ± 0.0127	1.1506 ± 0.0127	2.0320 ± 0.0254	0.4039 ± 0.0127	0.8128 ± 0.0127
Straight Length (Maximum)	feet	10	20	20	15	20
	meter	3.05	6.10	6.10	4.57	6.10
Materials						
Outer Conductor		Copper	Copper	Copper	Copper	Copper
Outer Conductor Plating		None	None	None	None	None
Dielectric		PTFE	PTFE	PTFE	PTFE	PTFE
Center Conductor		SPCW	SPC	SPC	SPC	SPCW
RoHS Compliant		Yes	Yes	Yes	Yes	Yes
Mechanical Characteristics						
Outer Conductor Integrity Temp.	°C	125	150	175	175	150
Operating Temperature (Max.)	°C	100	125	150	150	125
Inside Bend Radius (Minimum)	inch	0.050	0.250	0.188	0.125	0.125
	millimeter	1.270	6.350	4.775	3.175	3.175
Weight	lbs/100 ft	0.13	1.83	4.74	0.28	0.87
	kg/100 m	0.20	2.75	7.12	0.42	1.31
Electrical Characteristics						
Characteristic Impedance	ohm	13.0 ± 3.0	15.0 ± 1.0	15.0 ± 1.0	17.0 ± 1.0	18.0 ± 2.0
Capacitance	pF/ft	111.6	96.7	96.7	85.3	80.6
	pF/m	366.1	317.3	317.3	280.0	264.4
Velocity of Propagation	%	70	70	70	70	70
Corona Extinction Voltage	VRMS @ 60 Hz	150	850	750	200	1100
Voltage Withstanding	VRMS @ 60 Hz	600	2400	3900	1200	2100
Higher Order Mode Frequency	GHz	178	47	27	129	65
Attenuation (dB/100 ft, Typical)	0.5 GHz	112.2	24.4	15.0	55.5	29.8
	1.0 GHz	158.9	34.7	21.4	78.7	42.4
	5.0 GHz	357.5	79.9	50.2	178.3	97.0
	10.0 GHz	508.0	115.5	73.4	254.6	139.6
	18.0 GHz	685.4	158.7	102.2	345.4	191.1
	26.5 GHz	835.5	196.4	127.9	422.9	235.8
	40.0 GHz	1,032.7	247.5	-	525.8	295.9
	50.0 GHz	1,159.0	-	-	592.2	335.2
	65.0 GHz	1,328.1	-	-	681.9	388.9
Power (Watts CW @ 20 °C, Maximum for non plated outer conductor)	0.5 GHz	6.2	106.9	320.6	27.0	66.7
	1.0 GHz	4.4	75.2	224.7	19.0	46.9
	5.0 GHz	2.0	32.8	96.8	8.4	20.6
	10.0 GHz	1.4	22.8	66.6	5.9	14.3
	18.0 GHz	1.0	16.7	48.2	4.4	10.5
	26.5 GHz	0.8	13.5	38.7	3.6	8.6
	40.0 GHz	0.7	10.8	-	2.9	6.8
	50.0 GHz	0.6	-	-	2.6	6.1
	65.0 GHz	0.5	-	-	2.2	5.2
90.0 GHz	0.4	-	-	1.9	-	