Standard Low Loss Copper 50 Ohm Semi-Rigid Cables

CarlisleIT Description		UT-120C-LL	UT-141C-LL	UT-250C-LL
CarlisleIT Description (Tin Plated)		UT-120C-TP-LL	UT-141C-TP-LL	UT-250C-TP-LL
Dimensions	**Units**			
Outer Conductor Diameter (+ 0.001 inch for tin plate)	inch	0.120 ± 0.001	0.141 ± 0.002	0.250 ± 0.002
	millimeter	3.048 ± 0.025	3.581 ± 0.051	6.350 ± 0.051
Center Conductor Diameter	inch	0.0359 ± 0.0005	0.0403 ± 0.0010	0.0720 ± 0.0010
	millimeter	0.9119 ± 0.0127	1.0236 ± 0.0254	1.8288 ± 0.0254
Straight Length (Maximum)	feet	20	20	20
	meter	6.10	6.10	6.10
Materials				
Outer Conductor		Copper	Copper	Copper
Outer Conductor Plating		None or Tin	None or Tin	None or Tin
Dielectric		LD PTFE	LD PTFE	LD PTFE
Center Conductor		SPC	SPC	SPC
RoHS Compliant		Yes	Yes	Yes
Mechanical Characteristics				
Outer Conductor Integrity Temp.	°C	250	250	250
Operating Temperature (Max.)	°C	250\1	250\1	250\1
Inside Bend Radius (Minimum)	inch	0.188	0.500	0.750
	millimeter	4.775	12.700	19.050
Weight	lbs/100 ft	2.01	3.18	9.40
	kg/100 m	3.02	4.77	14.11
Electrical Characteristics				
Characteristic Impedance	ohm	50.0 ± 1.0	50.0 ± 1.5	50.0 ± 1.0
Capacitance	pF/ft	26.5	26.5	26.5
	pF/m	86.8	86.8	86.8
Velocity of Propagation	%	77	77	77
Corona Extinction Voltage	VRMS @ 60 Hz	1800	1900	3000
Voltage Withstanding	VRMS @ 60 Hz	7800	8400	15600
Higher Order Mode Frequency	GHz	41	37	20
Attenuation (dB/100 ft, Typical)	0.5 GHz	7.7	7.0	3.9
	1.0 GHz	11.0	10.0	5.6
	5.0 GHz	25.3	23.0	13.1
	10.0 GHz	36.4	33.2	19.3
	18.0 GHz	50.0	45.6	26.9
	26.5 GHz	61.8	56.5	-
	40.0 GHz	77.7	-	-
	50.0 GHz	-	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-
Power (Watts CW @ 20 °C, Maximum for non plated outer conductor)	0.5 GHz	683.1	839.4	2130.7
	1.0 GHz	480.8	590.4	1492.3
	5.0 GHz	210.8	258.3	641.5
	10.0 GHz	146.9	179.7	440.9
	18.0 GHz	107.6	131.5	318.1
	26.5 GHz	87.5	106.7	-
	40.0 GHz	70	-	-
	50.0 GHz	-	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-

\1 225 deg C for tin plated outer conductor