

Standard Dimensionally Stable Copper 50 ohm Semi-Rigid Cables

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CarlisleIT Description		UT-085C-DS	UT-141-DS	UT-141C-DS
CarlisleIT Description (Tin Plated)		UT-085C-TP-DS	UT-141-TP-DS	UT-141C-TP-DS
Dimensions	Units			
Outer Conductor Diameter (+ 0.001 inch for tin plate)	inch	0.0865 ± 0.0010	0.141 ± 0.001	0.141 ± 0.001
	millimeter	2.197 ± 0.025	3.581 ± 0.025	3.581 ± 0.025
Center Conductor Diameter	inch	0.0201 ± 0.0005	0.0362 ± 0.0007	0.0362 ± 0.0007
	millimeter	0.5105 ± 0.0127	0.9195 ± 0.0178	0.9195 ± 0.0178
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		PTFE	PTFE	PTFE
Center Conductor		SPCW	SPCW	SPCW
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	0.050	0.075	0.075
	millimeter	1.270	1.905	1.905
Weight	lbs/100 ft	1.43	3.29	3.32
	kg/100 m	2.15	4.84	4.98
¹ 225 deg C for tin plated outer conductor				
Electrical Characteristics				
Characteristic Impedance	ohm	50.0 ± 1.5	50.0 ± 1.0	50.0 ± 1.0
Capacitance	pF/ft	29.0	29.0	29.0
	pF/m	95.2	95.2	95.2
Velocity of Propagation	%	70	70	70
Corona Extinction Voltage	VRMS @ 60 Hz	1500	1900	1900
Voltage Withstanding	VRMS @ 60 Hz	5400	9600	9600
Higher Order Mode Frequency	GHz	61	34	34
Attenuation (dB/100 ft, Typical)	0.5 GHz	13.6	7.8	7.8
	1.0 GHz	19.5	11.3	11.3
	5.0 GHz	46.0	27.7	27.7
	10.0 GHz	67.4	41.6	41.6
	18.0 GHz	94.3	59.6	59.6
	26.5 GHz	118.3	76.2	76.2
	40.0 GHz	151.5	-	-
	50.0 GHz	173.8	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-
Power (Watts CW @ 20 °C, Maximum for non plated outer conductor)	0.5 GHz	306.9	737.4	737.4
	1.0 GHz	215.0	513.0	513.0
	5.0 GHz	92.5	214.8	214.8
	10.0 GHz	63.7	145.0	145.0
	18.0 GHz	46.0	102.6	102.6
	26.5 GHz	36.9	81.2	81.2
	40.0 GHz	29.1	-	-
	50.0 GHz	25.5	-	-
	65.0 GHz	-	-	-
90.0 GHz	-	-	-	