

Standard Stainless Steel 50 Ohm Semi-Rigid Cables

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CarlisleIT Description		UT-085B-SS	UT-141-SS	UT-141B-SS
Dimensions	Units			
Outer Conductor Diameter	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	0.0359 ± 0.0010	0.0362 ± 0.0007
	millimeter	0.5105 ± 0.0127	0.9119 ± 0.0254	0.9195 ± 0.0178
Straight Length (Maximum)	feet	20	20	20
	meter	6.10	6.10	6.10
Materials				
Outer Conductor		304 SS	304 SS	304 SS
Outer Conductor Plating		None	None	None
Dielectric		PTFE	PTFE	PTFE
Center Conductor		SP BeCu	SPCW	SP BeCu
RoHS Compliant		Yes	Yes	Yes
Mechanical Characteristics				
Outer Conductor Integrity Temp.	°C	225	225	225
Operating Temperature (Max.)	°C	200	200	200
Inside Bend Radius (Minimum)	inch	0.250	0.250	0.500
	millimeter	6.350	6.350	12.700
Weight	lbs/100 ft	1.31	3.06	3.06
	kg/100 m	1.97	4.58	4.59
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	1900	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	31.2	17.7	17.8
	1.0 GHz	44.4	25.3	25.4
	5.0 GHz	101.5	58.9	59.2
	10.0 GHz	146.0	85.8	86.1
	18.0 GHz	199.7	118.9	119.4
	26.5 GHz	246.2	148.2	148.7
	40.0 GHz	308.7	-	-
	50.0 GHz	349.5	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-
Power (Watts CW @ 20 °C, Maximum for non plated outer conductor)	0.5 GHz	142.7	347.1	346.2
	1.0 GHz	100.5	243.6	243.1
	5.0 GHz	44.2	105.7	105.5
	10.0 GHz	30.9	73.1	73.0
	18.0 GHz	22.7	53.1	53.0
	26.5 GHz	18.5	42.9	42.8
	40.0 GHz	14.8	-	-
	50.0 GHz	13.1	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-