

# Standard Copper 50 ohm Semi-Rigid Cables

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CarlisleIT Description		UT-250C-SP	UT-325C	UT-390C
MIL-DTL-17 Description		-	-	-
MIL-DTL-17 Part Number		-	-	-
Dimensions		Units		
Outer Conductor Diameter	inch	0.250 +0.002/-0.001	0.325 ± 0.002	0.390 ± 0.002
	millimeter	6.350 +0.051/-0.025	8.255 ± 0.051	9.906 ± 0.051
Dielectric Diameter	inch	-	-	-
	millimeter	-	-	-
Center Conductor Diameter	inch	0.0641 ± 0.0010	7 x 0.0312 ± 0.0010	0.102 ± 0.001
	millimeter	1.6281 ± 0.0254	7 x 0.7925 ± 0.0254	2.5908 ± 0.0254
Straight Length (Maximum)	feet	20	20	20
	meter	6.10	6.10	6.10
Coiled Length (Maximum) <sup>11</sup>	feet	150	-	-
	meter	45.72	-	-
<sup>11</sup> Add "TYPE" to the part description for coiled lengths, example: UT-034-TYPE				
Materials				
Outer Conductor		Copper	Copper	Copper
Outer Conductor Plating		Silver	None	None
Dielectric		PTFE	PTFE	PTFE
Center Conductor		SPC	Stranded SPC	SPC
RoHS Compliant		Yes	Yes	Yes
Mechanical Characteristics				
Outer Conductor Integrity Temp.	°C	150	125	175
Operating Temperature (Max.)	°C	100	90	90
Inside Bend Radius (Minimum)	inch	0.125	0.750	0.750
	millimeter	3.175	19.050	19.050
Weight	lbs/100 ft	10.38	15.93	24.40
	kg/100 m	15.58	23.92	36.63
Electrical Characteristics				
Characteristic Impedance	ohm	50.0 ± 0.5	50.0 ± 1.0	50.0 ± 0.5
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	3000	3000	6000
Voltage Withstanding	VRMS @ 60 Hz	16800	22800	26700
Higher Order Mode Frequency	GHz	19	14	12
	0.5 GHz	4.3	3.5	3.0
Attenuation (dB/100 ft, Typical)	1.0 GHz	6.7	5.2	4.6
	5.0 GHz	17.4	13.8	12.5
	10.0 GHz	27.0	22.0	20.1
	18.0 GHz	40.0	-	-
	26.5 GHz	-	-	-
	40.0 GHz	-	-	-
	50.0 GHz	-	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-
Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	951.8	1,702.4	3,425.8
	1.0 GHz	653.3	1,156.5	2,321.5
	5.0 GHz	260.0	443.6	883.1
	10.0 GHz	169.8	283.5	561.6
	18.0 GHz	116.3	-	-
	26.5 GHz	-	-	-
	40.0 GHz	-	-	-
	50.0 GHz	-	-	-
	65.0 GHz	-	-	-
90.0 GHz	-	-	-	