

Standard Copper 50 ohm Semi-Rigid Cables

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CarlisleIT Description		UT-215-TP	UT-250C	UT-250C-TP
MIL-DTL-17 Description		-	UT-250A-M17	UT-250A-TP-M17
MIL-DTL-17 Part Number		-	M17/129-RG-401	M17/129-00001
Dimensions		Units		
Outer Conductor Diameter	inch	0.215 +0.003/-0.002	0.250 ± 0.001	0.250 +0.002/-0.001
	millimeter	5.461 +0.076/-0.051	6.350 ± 0.025	6.350 +0.051/-0.025
Dielectric Diameter	inch	-	0.209 ± 0.002	0.209 ± 0.002
	millimeter	-	5.309 ± 0.051	5.309 ± 0.051
Center Conductor Diameter	inch	0.0571 ± 0.0005	0.0641 ± 0.0010	0.0641 ± 0.0010
	millimeter	1.4503 ± 0.0127	1.6281 ± 0.0254	1.6281 ± 0.0254
Straight Length (Maximum)	feet	20	20	20
	meter	6.10	6.10	6.10
Coiled Length (Maximum) ¹	feet	150	150	150
	meter	45.72	45.72	45.72
¹ Add "TYPE" to the part description for coiled lengths, example: UT-034-TYPE				
Materials				
Outer Conductor		Copper	Copper	Copper
Outer Conductor Plating		Tin	None	Tin
Dielectric		PTFE	PTFE	PTFE
Center Conductor		SPCW	SPC	SPC
RoHS Compliant		Yes	Yes	Yes
Mechanical Characteristics				
Outer Conductor Integrity Temp.	°C	150	150	150
Operating Temperature (Max.)	°C	125	100	100
Inside Bend Radius (Minimum)	inch	0.375	0.125	0.125
	millimeter	9.525	3.175	3.175
Weight	lbs/100 ft	7.17	10.38	10.38
	kg/100 m	10.76	15.58	15.58
Electrical Characteristics				
Characteristic Impedance	ohm	50.0 ± 2.0	50.0 ± 0.5	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	3000
Voltage Withstanding	VRMS @ 60 Hz	15000	16800	16800
Higher Order Mode Frequency	GHz	22	19	19
Attenuation (dB/100 ft, Typical)	0.5 GHz	5.1	4.3	4.3
	1.0 GHz	7.5	6.7	6.7
	5.0 GHz	19.1	17.4	17.4
	10.0 GHz	29.4	27.0	27.0
	18.0 GHz	43.3	40.0	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	844.1	1,780.0	1,061.4
	1.0 GHz	581.2	914.8	728.6
	5.0 GHz	234.0	364.5	290.1
	10.0 GHz	154.0	238.3	189.5
	18.0 GHz	106.1	163.2	129.7
	26.5 GHz	-	-	-
	40.0 GHz	-	-	-
	50.0 GHz	-	-	-
	65.0 GHz	-	-	-
	90.0 GHz	-	-	-