

# Standard Copper 50 ohm Semi-Rigid Cables

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CarlisleIT Description		UT-141A-TP	UT-141A-SP	UT-141C	UT-141C-TP	UT-141C-SP
MIL-DTL-17 Description		UT-141-SA-TP-M17	UT-141-SA-SP-M17	-	-	-
MIL-DTL-17 Part Number		M17/130-00005	M17/130-00012	-	-	-
Dimensions		Units				
Outer Conductor Diameter	inch	0.141 +0.002/-0.001	0.141 +0.002/-0.001	0.141 ± 0.001	0.141 +0.002/-0.001	0.141 +0.002/-0.001
	millimeter	3.581 +0.051/-0.025	3.581 +0.051/-0.025	3.581 ± 0.025	3.581 +0.051/-0.025	3.581 +0.051/-0.025
Dielectric Diameter	inch	0.1175 ± 0.0010	0.1175 ± 0.0010	-	-	-
	millimeter	2.985 ± 0.025	2.985 ± 0.025	-	-	-
Center Conductor Diameter	inch	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007
	millimeter	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178
Straight Length (Maximum)	feet	20	20	20	20	20
	meter	6.10	6.10	6.10	6.10	6.10
Coiled Length (Maximum) <sup>11</sup>	feet	150	150	150	150	150
	meter	45.72	45.72	45.72	45.72	45.72

<sup>11</sup> Add "TYPE" to the part description for coiled lengths, example: UT-034-TYPE

Materials						
Outer Conductor	Copper	Copper	Copper	Copper	Copper	Copper
Outer Conductor Plating	Tin	Silver	None	Tin	Silver	Silver
Dielectric	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Center Conductor	SPCW	SPCW	SPC	SPC	SPC	SPC
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes

Mechanical Characteristics						
Outer Conductor Integrity Temp.	°C	175	175	175	175	175
Operating Temperature (Max.)	°C	125	125	125	125	125
Inside Bend Radius (Minimum)	inch	0.075	0.075	0.075	0.075	0.075
	millimeter	1.905	1.905	1.905	1.905	1.905
Weight	lbs/100 ft	3.29	3.29	3.32	3.32	3.32
	kg/100 m	4.94	4.94	4.98	4.98	4.98

Electrical Characteristics						
Characteristic Impedance	ohm	50.0 ± 1.0	50.0 ± 1.0	50.0 ± 1.0	50.0 ± 1.0	50.0 ± 1.0
Capacitance	pF/ft	29.0	29.0	29.0	29.0	29.0
	pF/m	95.2	95.2	95.2	95.2	95.2
Velocity of Propagation	%	70	70	70	70	70
Corona Extinction Voltage	VRMS @ 60 Hz	1900	1900	1900	1900	1900
Voltage Withstanding	VRMS @ 60 Hz	9600	9600	9600	9600	9600
Higher Order Mode Frequency	GHz	34	34	34	34	34
	0.5 GHz	7.6	7.6	7.6	7.6	7.6
Attenuation (dB/100 ft, Typical)	1.0 GHz	11.3	11.3	11.3	11.3	11.3
	5.0 GHz	27.6	27.6	27.6	27.6	27.6
	10.0 GHz	41.6	41.6	41.6	41.6	41.6
	18.0 GHz	59.6	59.6	59.6	59.6	59.6
	26.5 GHz	76.2	76.2	76.2	76.2	76.2
	40.0 GHz	-	-	-	-	-
	50.0 GHz	-	-	-	-	-
	65.0 GHz	-	-	-	-	-
	90.0 GHz	-	-	-	-	-
	Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	483.5	436.4	600.4	483.5
1.0 GHz		336.2	303.4	450.0	336.2	303.4
5.0 GHz		140.4	126.7	180.0	140.4	126.7
10.0 GHz		94.6	85.3	120.0	94.6	85.3
18.0 GHz		66.8	60.3	83.0	66.8	60.3
26.5 GHz		52.7	47.6	65.6	52.7	47.6
40.0 GHz		-	-	-	-	-
50.0 GHz		-	-	-	-	-
65.0 GHz		-	-	-	-	-
90.0 GHz	-	-	-	-	-	