

.047 Coaxial Cable – 50 Ω Semi-Rigid Tin-Plated Copper



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EZ-47-TP/M17

∅.047" Semi-Rigid Tin-Plated Copper Outer Conductor, SPCW
Center Conductor, PTFE Dielectric, 50 Ω.



Specifications

DIMENSIONS

Center Conductor Diameter	0.0113 in
Dielectric Diameter	0.0370 in
Outer Conductor Diameter	0.0470 in

MATERIALS

Center Conductor Material	SPCW
Dielectric Material	PTFE
Outer Conductor Material	Copper
Outer Conductor Plating Material	Tin
RoHS Compliant	Yes

MECHANICAL CHARACTERISTICS

Minimum Temperature	-55 °C
Maximum Temperature	+100 °C
Inside Bend Radius (Minimum)	0.050 in
Weight	0.42 lbs per 100 ft

ELECTRICAL CHARACTERISTICS

Nominal Impedance	50.0 Ω
Nominal Impedance Margin	±2.5 Ω
Velocity of Propagation	69.50%
Shielding Effectiveness	>165 db
Voltage Withstanding	2000 VRMS @ 60 Hz
Continuous Working Voltage	1000 VRMS max
Maximum Operating Frequency	109 GHz

Attenuation

FREQUENCY	DB / 100 FT TYPICAL
0.5 GHz	24 db
1.0 GHz	34 db
5.0 GHz	79 db
10.0 GHz	114 db
18.0 GHz	156 db
26.5 GHz	195 db
40.0 GHz	245 db
50.0 GHz	278 db
65.0 GHz	323 db
90.0 GHz	390 db

Power

FREQUENCY	WATTS CW @ 20 °C (MAX)
0.5 GHz	80 W
1.0 GHz	55 W
5.0 GHz	25 W
10.0 GHz	17 W
18.0 GHz	12 W
26.5 GHz	10 W
40.0 GHz	8 W
50.0 GHz	7 W
65.0 GHz	6 W
90.0 GHz	5 W