

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



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EZ-47-AL-TP

∅.047" Semi-Rigid Tin-Plated Aluminum 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	Aluminum
Outer Conductor Plating Material	Tin
RoHS Compliant	Yes

MECHANICAL CHARACTERISTICS

Minimum Temperature	-55 °C
Maximum Temperature	+125 °C
Inside Bend Radius (Minimum)	0.050 in
Weight	0.24 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	108 GHz

Attenuation

FREQUENCY	DB / 100 FT TYPICAL
0.5 GHz	25 db
1.0 GHz	36 db
5.0 GHz	84 db
10.0 GHz	120 db
18.0 GHz	169 db
26.5 GHz	210 db
40.0 GHz	260 db
50.0 GHz	295 db
65.0 GHz	350 db
90.0 GHz	425 db

Power

FREQUENCY	WATTS CW @ 20 °C (MAX)
0.5 GHz	75 W
1.0 GHz	52 W
5.0 GHz	23 W
10.0 GHz	16 W
18.0 GHz	11 W
26.5 GHz	9.5 W
40.0 GHz	7.5 W
50.0 GHz	6.7 W
65.0 GHz	5.7 W
90.0 GHz	4.7 W