

.047 Coaxial Cable – 50 Ω MIL-DTL-17 Tin-Plated Copper

M17/151-00002

ø.047" MIL-DTL-17 Tin-Plated Copper Outer Conductor, SPCW
Center Conductor, PTFE Dielectric, 50 Ω.



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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	-40 °C
Maximum Temperature	+100 °C
Inside Bend Radius (Minimum)	0.125 in
Weight	0.48 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	20 GHz

Attenuation

FREQUENCY	DB / 100 FT TYPICAL
0.5 GHz	28 db
1.0 GHz	40 db
3.0 GHz	70 db
5.0 GHz	90 db
10.0 GHz	130 db
20.0 GHz	190 db

Power

FREQUENCY	WATTS CW @ 20 °C (MAX)
0.5 GHz	45 W
1.0 GHz	32 W
3.0 GHz	18 W
5.0 GHz	13 W
10.0 GHz	9 W
20.0 GHz	6.5 W