

# 0.047 Cable – ArcTite®

Winchester Interconnect's engineered cable for applications requiring operating frequencies up to 40GHz ensures optimal functionality and efficiency where standard alternatives fall short. Ideal for high-density applications, our product provides a cost effective, higher performing solution to semi-rigid cable. With US-based manufacturing, we are committed to on-time delivery and reliability to keep your operations running.



## CAPABILITIES

- Ultra-low profile height
- IP67 waterproof rating
- Retains performance in bent condition
- Replaces higher cost, lower performance right angle solutions
- Ideal for high density packaging
- Available in 0.086 and 0.141 cable sizes
- Low loss broadband performance up to DC-40 GHz

## APPLICATIONS

- Ideal for high-density, module connections where flexible cable and low profile height provide advantages to the system design
- Allow up to 100 x 90° bend in any direction at a specified minimum bend radius
- Direct solder To PCB stripline
- Provide an excellent, low-profile solution for jumper cables between ports or components.

## SPECIFICATIONS

Physical Properties	
Solid Center Conductor (in)	0.011
Dielectric O.D. (in)	0.037
Helical Foil O.D. (in)	0.041
Round Braid O.D. (in)	0.047
Jacket O.D. (in)	0.058
Operating Temperature (°C)	-65 / +125
Inside Min. Bend Radius (in)	0.3
Weight (lbs/ft)	0.004
Nominal Electrical Properties	
Impedance (ohms)	50
Velocity of Propagation (%)	70
Shielding Effectiveness (dB)	100
Capacitance (pF/ft)	29.0
Max Operating Frequency (GHz)	40

Attenuation (dB/100ft) at 25°C and Sea Level		
<i>Freq (GHz)</i>	<i>Typical</i>	<i>Max</i>
0.5	23.59	25.95
1.0	33.67	37.04
3.0	59.82	65.81
6.0	86.75	95.42
12.0	127.00	139.70
18.0	159.60	175.56
26.0	197.19	216.91
32.0	222.65	244.92
40.0	254.14	279.55
K1	32.45	35.70
K2	1.22	1.34