

DX047 Cable

Winchester Interconnect's engineered cable for applications requiring operating frequencies up to 100GHz 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

- Broadband Performance to 100 GHz
- Low Loss & Matched VSWR
- > 100 dB Shielding Effectiveness
- IPC 67 rated assemblies available
- Flex life > 1000 cycles @ min bend radius
- Robust design construction & materials
- Lower attenuation than similar sized RG cables

APPLICATIONS

- Flexible alternative to semi-rigid cables
- Compatible with standard .047 connectors
- High temperature, Space rated ETFE jackets
- Small diameter ideal for high density gangmate applications
- Available with Arctite 047 product line

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
Construction in Accordance with MIL-DTL-17	
Center Conductor	Silver plated copper clad steel conductor, per ASTM B298
Dielectric	Solid PTFE, Type F, per ASTM D4894 or D4895
First Shield	Silver plated copper per ASTM B298
Secondary Shield	Silver plated copper per ASTM B298
Jacket (Blue)	FEP, Type I per ASTM D2116
Marking @ 12-inch Intervals (Black Ink)	"D-Flex DX047 (Lot #) YYWW"

SPECIFICATIONS CONT.

Attenuation (dB/100ft) at 25°C and Sea Level	
Freq (GHz)	dB/100 ft
10.0	114.76
20.0	169.50
30.0	214.37
40.0	254.14
50.0	290.64
60.0	324.82
70.0	356.24
80.0	388.27
90.0	418.16
100.0	447.11
K1	32.45
K2	1.22

Nominal Electrical Properties	
Impedance (ohms)	50
Velocity of Propagation (%)	70
Shielding Effectiveness	100
Capacitance (pF/ft)	29.0
Max Operating Freq. (GHz)	100

