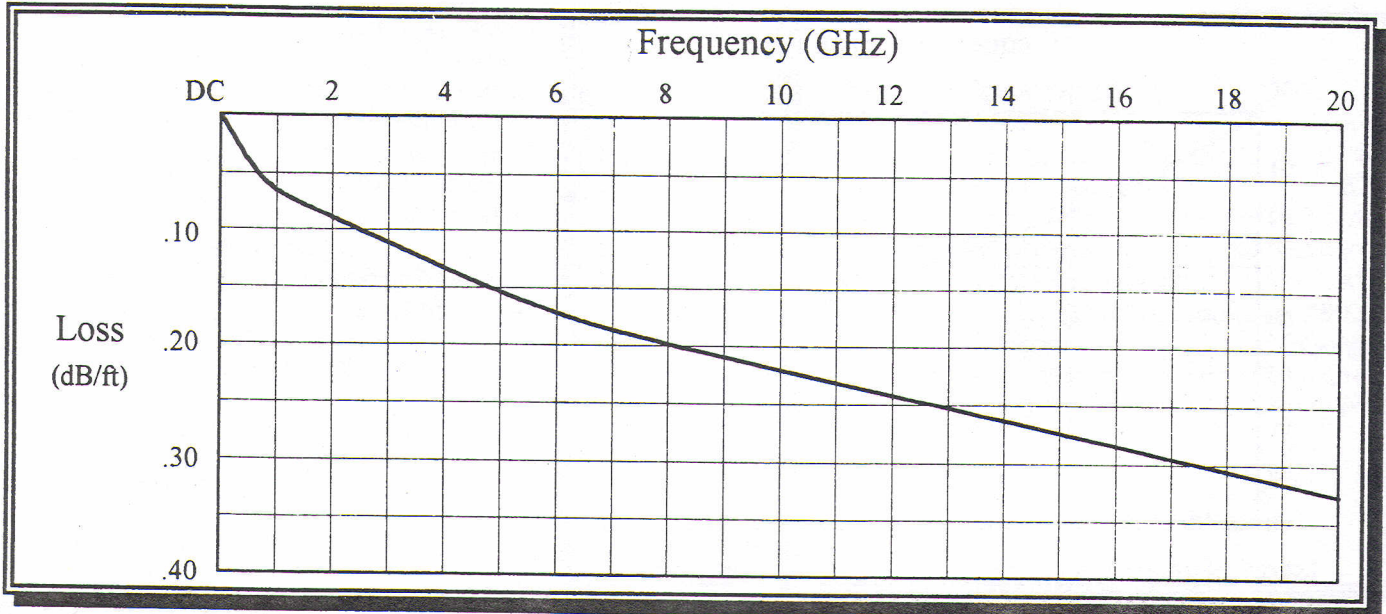


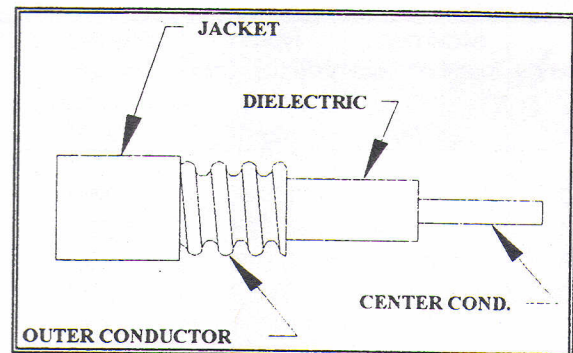


S172 Flexible Coaxial Cable
 20 GHz Cable

Frequency vs. Attenuation



Frequency (GHz)	Typical Insertion Loss (dB/ft)	Typical Connector Loss (dB/each)	Average Power at 40°C (kW)
0.03	0.010	0.02	1.25
0.4	0.037	0.02	0.33
1.0	0.060	0.02	0.20
2.0	0.080	0.03	0.15
4.0	0.125	0.04	0.09
8.0	0.200	0.07	0.06
12.0	0.240	0.08	0.05
16.0	0.280	0.10	0.04
20.0	0.325	0.12	0.03



Electrical Characteristics:

Nominal Impedance: 50Ω
 Velocity of Propagation: 84%
 Effective Dielectric Constant: 1.42
 Time Delay: 1.21 ns/ft
 Shielding Effectiveness: -110 dBc min.
 Dielectric Withstanding Voltage: 3.0 KV
 (@ 60 Hz, Sea Level/25°C)
 Nominal Capacitance: 24 pF/ft
 Maximum Frequency: 20 GHz

Physical Characteristics:

Center Conductor: Solid, copper clad aluminum
 Dielectric: Polyethylene foam
 Outer Conductor: Seamless, corrugated copper
 0.250" nominal O.D.
 Jacket: Black polyethylene, 0.300" nominal O.D.
 Minimum Internal Bend Radius: 1.0 inches
 Operating Temperature: -40°C to +85°C
 Weight per Foot: 0.05 lbs.
 Connector Interface: Per MIL-C-39012