

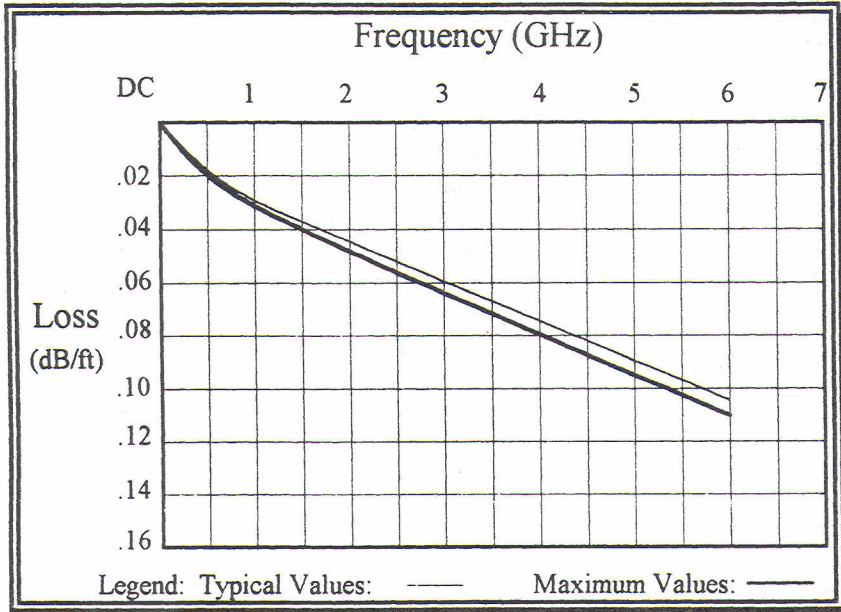
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**FC659 Flexible Coaxial Cable**  
6 GHz Cable

**Frequency vs. Attenuation**

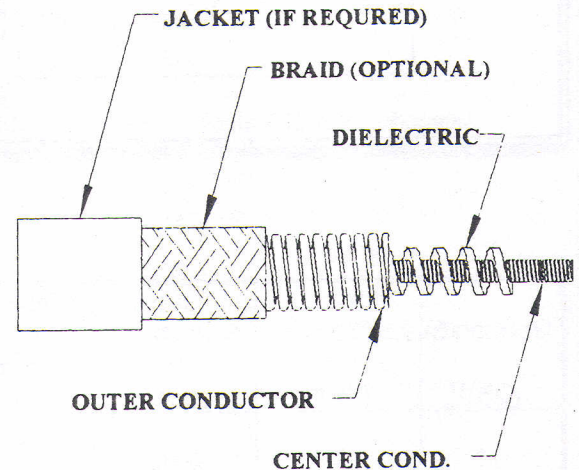


Frequency (GHz)	Maximum Insertion Loss (**) (dB/ft)	Typical Insertion Loss (**) (dB/ft)	Precision Connector Maximum VSWR	Non Precision Connector Maximum VSWR
0.2	0.015	0.014	1.10:1	1.20:1
0.4	0.022	0.021	1.10:1	1.20:1
0.8	0.029	0.027	1.10:1	1.20:1
1.0	0.035	0.033	1.15:1	1.25:1
2.0	0.046	0.043	1.20:1	1.30:1
3.0	0.063	0.059	1.25:1	1.35:1
4.0	0.073	0.067	1.30:1	1.40:1
5.0	0.100	0.094	1.35:1	1.45:1
6.0	0.110	0.104	1.35:1	1.45:1

**Electrical Characteristics:**

Nominal Impedance: 50Ω  
Velocity of Propagation: 87%  
Effective Dielectric Constant: 1.32  
Time Delay: 1.17 ns/ft  
Shielding Effectiveness: -90 dBc min.  
Dielectric Withstanding Voltage: 10.0 KV  
(@ 60 Hz, Sea Level/25°C)  
Nominal Capacitance: 24 pF/ft  
Maximum Frequency: 6 GHz

For phase and other electrical characteristics, please consult the appropriate section of catalog.



**Physical Characteristics:**

Center Conductor: Corrugated Tubular Copper  
Dielectric: Air with spiral wound PTFE  
Outer Conductor: Strip wound oxygen free Cu per UNS C10200, 1.040" max. O.D.  
Minimum Internal Bend Radius: 6.5 inches  
Operating Temperature: -60°C to +175°C  
Weight per Foot (unjacketed): 0.75 lbs.  
Connector Interface: Per MIL-C-39012

**Optional Jacketing and Braid:**

Polyolefin per MIL-I-23053/5: 1.10" max. O.D.  
Neoprene per MIL-I-23053/1: 1.12" max. O.D.  
FEP per MIL-I-23053/11: 1.08" max. O.D.  
Braid: Bronze per UNS C22000, 1.10" max. O.D.  
Others available, please consult factory.