

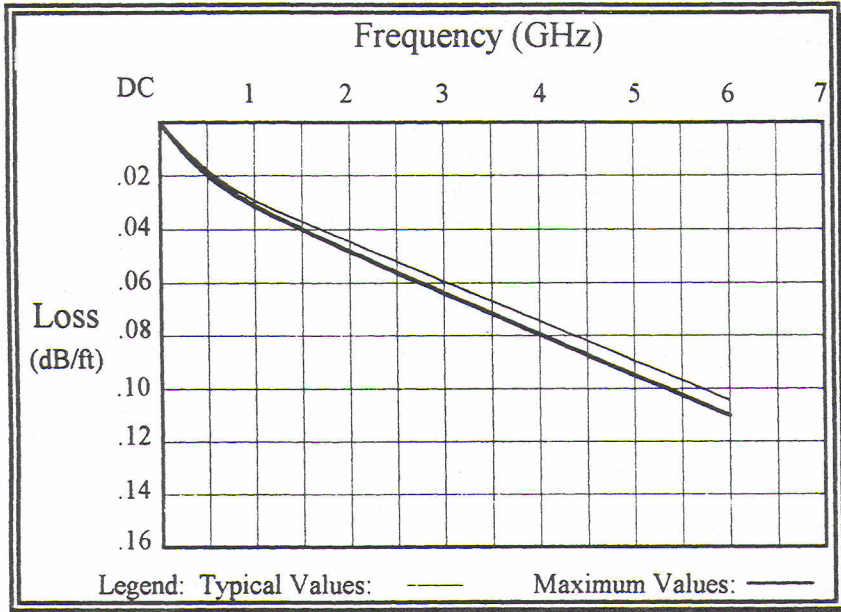
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FC659 Flexible Coaxial Cable
6 GHz Cable

Frequency vs. Attenuation

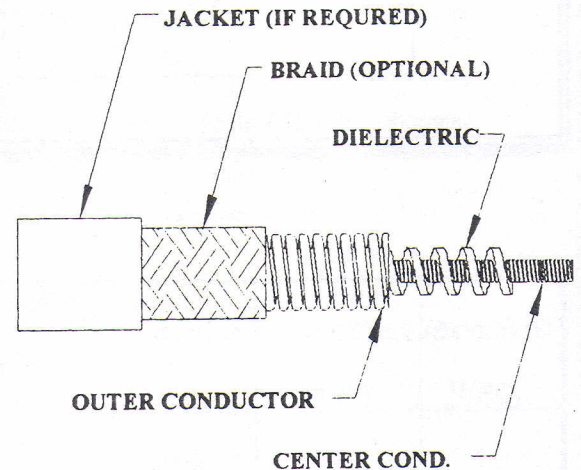


Frequency (GHz)	Maximum Insertion Loss (**) (dB/ft)	Typical Insertion Loss (**) (dB/ft)	Precision Connector Maximum VSWR	Non Precision Connector Maximum VSWR
0.2	0.015	0.014	1.10:1	1.20:1
0.4	0.022	0.021	1.10:1	1.20:1
0.8	0.029	0.027	1.10:1	1.20:1
1.0	0.035	0.033	1.15:1	1.25:1
2.0	0.046	0.043	1.20:1	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.