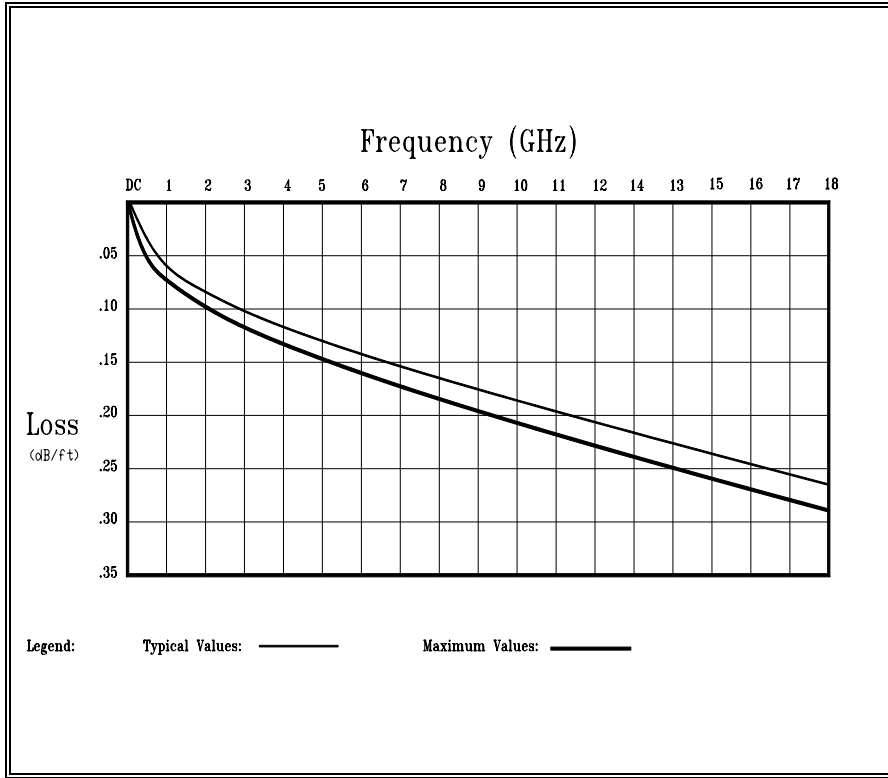


## FCL05 Flexible Coaxial Cable 18 GHz Cable

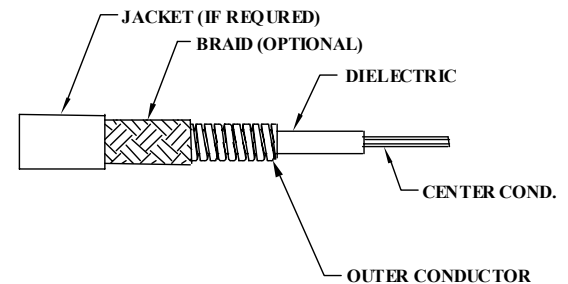
### Frequency vs. Attenuation



### Electrical Characteristics:

Nominal Impedance:	50Ω
Velocity of Propagation:	82.5%
Effective Dielectric Constant:	1.48
Time Delay:	1.24 ns/ft
Shielding Effectiveness:	-90 dBc min.
Dielectric Withstanding Voltage:	3.0 kV (@ 60 Hz Sea Level/25°C)
Nominal Capacitance:	26.7 pF/ft
Maximum VSWR:	
Precision Straight connectors:	
DC - <4 GHz	1.10:1
4 GHz - <8 GHz	1.15:1
8 GHz - <18 GHz	1.25:1
Non-Precision or Angle connectors:	
DC - <4 GHz	1.20:1
4 GHz - <8 GHz	1.30:1
8 GHz - <18 GHz	1.40:1
Maximum Frequency:	18 GHz
Phase Stability vs. Flex - 18 GHz:	3 deg.
Phase Stability vs. Temperature (@ 10 GHz):	6 ppm/C°

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



Frequency (GHz)	Maximum Insertion Loss (dB/ft)	Typical Insertion Loss (dB/ft)	Precision Connector Loss (dB)	Non Precision Connector Loss (dB)
0.50	0.05	0.04	0.02	0.03
1.00	0.07	0.06	0.02	0.03
2.00	0.10	0.08	0.03	0.05
3.00	0.12	0.10	0.04	0.06
4.00	0.14	0.12	0.04	0.06
5.00	0.15	0.13	0.05	0.08
6.00	0.17	0.15	0.06	0.09
7.00	0.18	0.16	0.06	0.09
8.00	0.19	0.17	0.07	0.11
10.00	0.21	0.19	0.08	0.12
12.00	0.23	0.21	0.08	0.13
12.40	0.24	0.22	0.08	0.13
14.00	0.25	0.23	0.09	0.14
16.00	0.27	0.25	0.10	0.15
18.00	0.29	0.27	0.11	0.17

### Physical Characteristics:

Center Cond.:	Stranded SPC per ASTM -B298
Dielectric:	Expanded PTFE
Outer Conductor:	Strip wound oxygen free copper per UNS C10200, 0.315" max. O.D.
Minimum Internal Bend Radius:	1.5 inches
Operating Temperature:	-60°C to +175°C
Weight per Foot (unjacketed):	0.083 lbs

### Optional Jacketing and Braid:

Polyolefin per AMS-DTL-23053/5:	0.350" max. O.D.
Neoprene per AMS-DTL -23053/1:	0.385" max. O.D.
FEP per AMS-DTL -23053/11:	0.340" max. O.D.
Braid:	Bronze per UNS C22000, 0.350" max. O.D.

Others available, please consult factory.