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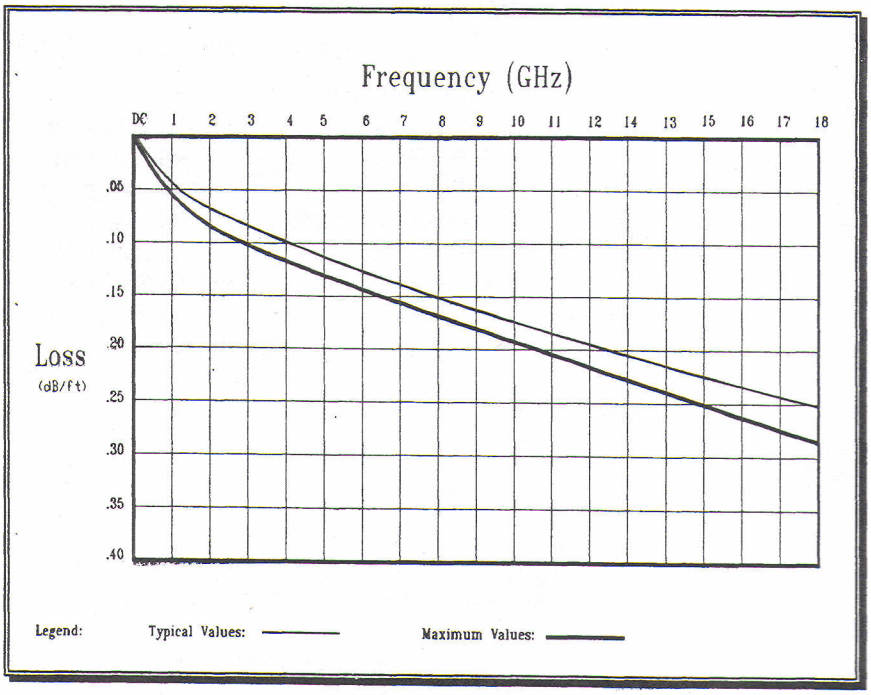
FLEXCO MICROWAVE INC.

NEW! FCL02 Flexible Coaxial Cable

18 GHz Cable

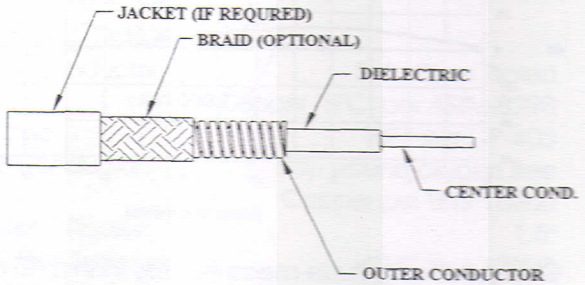
Frequency vs. Attenuation



Electrical Characteristics:

Nominal Impedance:	50Ω
Velocity of Propagation:	83.5%
Effective Dielectric Constant:	1.43
Time Delay:	1.21 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 v. Flex. - 18 GHz:	4 deg.
Phase Stability v. Temperature:	6ppm/°C

Frequency (GHz)	Maximum Insertion Loss (dB/ft)	Typical Insertion Loss (dB/ft)	Precision Connector Loss (dB)	Non Precision Connector Loss (dB)
0.50	0.02	0.01	0.02	0.03
1.00	0.05	0.04	0.03	0.03
2.00	0.08	0.07	0.04	0.05
4.00	0.12	0.10	0.04	0.06
6.00	0.14	0.12	0.05	0.09
8.00	0.17	0.15	0.06	0.11
10.00	0.18	0.16	0.07	0.12
12.00	0.21	0.18	0.08	0.13
14.00	0.23	0.20	0.09	0.14
16.00	0.26	0.23	0.10	0.15
18.00	0.28	0.25	0.11	0.17



Physical Characteristics:

Center Cond.:	Solid 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):	0.080 lbs

Optional Jacketing and Braid:

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

Others available, please consult factory.