

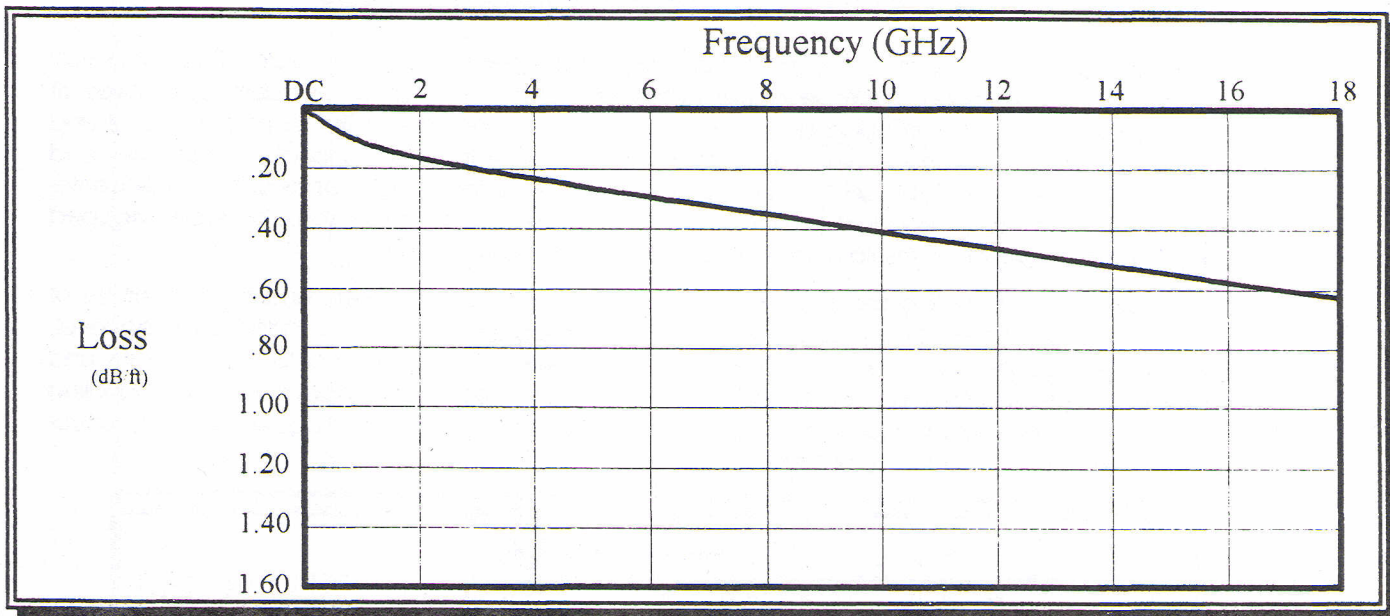
**Flexco Microwave, Inc.**

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**UltraFlex FM402 Flexible Coaxial Cable**  
Your Flexible Alternative to M17/130-RG402 Semi-Rigid Cable  
18 GHz Cable

**Frequency vs. Attenuation**



**Electrical Characteristics:**

Nominal Impedance: 50Ω  
Velocity of Propagation: 69%  
Shielding Effectiveness: -90 dBc min.  
Dielectric Withstanding Voltage: 0.5 kV  
Nominal Capacitance: 29 pF/ft  
Maximum Frequency: 18 GHz  
Effective Dielectric Constant: 2.10  
Time Delay: 1.5 ns/ft

**Physical Characteristics:**

Center Cond.: Ag plated, Cu clad steel, 0.037" dia.  
Dielectric: Extruded PTFE, 0.117" dia.  
Shield One: Flat SPC Strip, 0.130" dia.  
Shield Two: #40 AWG SPC, 0.141" dia.  
Jacket (Blue): Extruded FEP, 0.163" dia.  
Minimum Internal Bend Radius: 1.5 inches  
Operating Temperature: -60°C to +200°C  
Weight per Foot: 0.032 lbs.  
Available Connectors: SMA Straight Plug, SMA Straight Jack, SMA 90° Cube Plug

Frequency (GHz)	Maximum Insertion Loss (dB/ft)	Maximum VSWR	Straight Connector Loss (dB)	Angle Connector Loss (dB)
0.4	0.08	1.15:1	0.02	0.03
1.0	0.15	1.15:1	0.03	0.04
2.0	0.20	1.15:1	0.04	0.05
3.0	0.23	1.20:1	0.04	0.06
5.0	0.29	1.25:1	0.05	0.07
8.0	0.39	1.30:1	0.06	0.11
10.0	0.46	1.30:1	0.07	0.12
12.0	0.50	1.30:1	0.08	0.13
18.0	0.63	1.35:1	0.11	0.15

