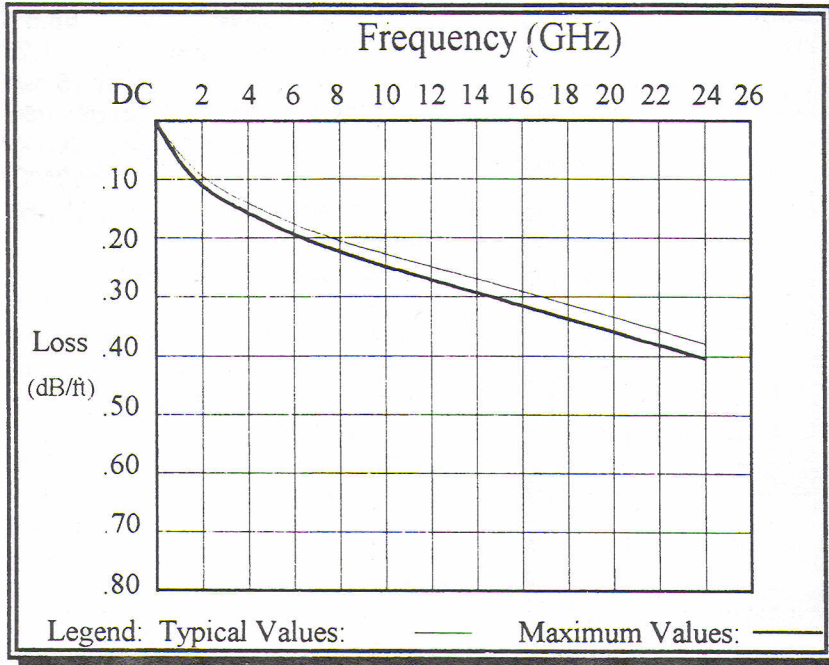




FCD92 Flexible Coaxial Cable 24 GHz Cable

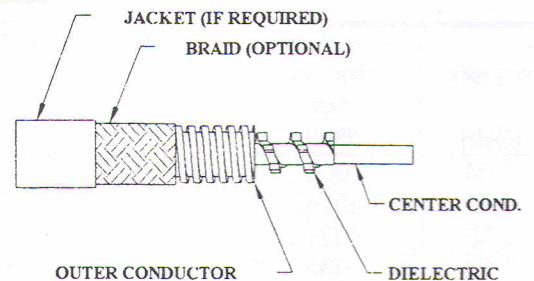
Frequency vs. Attenuation



Electrical Characteristics:

- Nominal Impedance: 50Ω
 - Velocity of Propagation: 85%
 - Effective Dielectric Constant: 1.38
 - Time Delay: 1.20 ns/ft
 - Shielding Effectiveness: -90 dBc min.
 - Dielectric Withstanding Voltage: 3.0 KV
(@ 60 Hz, Sea Level/25°C)
 - Nominal Capacitance: 25 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
 - 18 GHz - 24 GHz 1.35:1
 - Non-Precision or Angle connectors:
 - DC - < 4 GHz 1.20:1
 - 4 GHz - < 8 GHz 1.30:1
 - 8 GHz - 24 GHz 1.40:1
 - Maximum Frequency: 24 GHz
- 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) |
|-----------------|--------------------------------|--------------------------------|-------------------------------|-----------------------------------|
| 0.10 | 0.04 | 0.03 | 0.01 | 0.02 |
| 0.25 | 0.05 | 0.04 | 0.02 | 0.03 |
| 0.50 | 0.06 | 0.05 | 0.02 | 0.03 |
| 0.75 | 0.07 | 0.06 | 0.03 | 0.03 |
| 1.0 | 0.08 | 0.07 | 0.03 | 0.03 |
| 2.0 | 0.11 | 0.10 | 0.04 | 0.05 |
| 3.0 | 0.13 | 0.12 | 0.04 | 0.06 |
| 4.0 | 0.15 | 0.14 | 0.04 | 0.06 |
| 6.0 | 0.19 | 0.18 | 0.06 | 0.09 |
| 8.0 | 0.22 | 0.21 | 0.07 | 0.11 |
| 10.0 | 0.25 | 0.24 | 0.08 | 0.12 |
| 12.0 | 0.27 | 0.26 | 0.08 | 0.13 |
| 14.0 | 0.29 | 0.27 | 0.09 | 0.14 |
| 16.0 | 0.31 | 0.29 | 0.10 | 0.15 |
| 18.0 | 0.33 | 0.31 | 0.11 | 0.17 |
| 20.0 | 0.36 | 0.34 | 0.12 | 0.19 |
| 22.0 | 0.38 | 0.36 | 0.13 | 0.20 |
| 24.0 | 0.40 | 0.38 | 0.14 | 0.25 |



Physical Characteristics:

- Center Conductor: Solid SPC per ASTM-B298
- Dielectric: PTFE per L-P-403
- Outer Conductor: Strip wound oxygen free
0.275" max. O.D.
- Minimum Internal Bend Radius: 1.25 inches
- Operating Temperature: -60°C to +175°C
- Weight per Foot (unjacketed): 0.061 lbs
- Connector Interface: Per MIL-C-39012

Optional Jacketing and Braid:

- Polyolefin per MIL-I-23053/5: 0.325" max. O.D.
- Neoprene per MIL-I-23053/1: 0.350" max. O.D.
- FEP per MIL-I-23053/11: 0.300" max. O.D.
- Braid: Bronze per UNS C22000, 0.325" max. O.D.
- Others available, please consult factory.