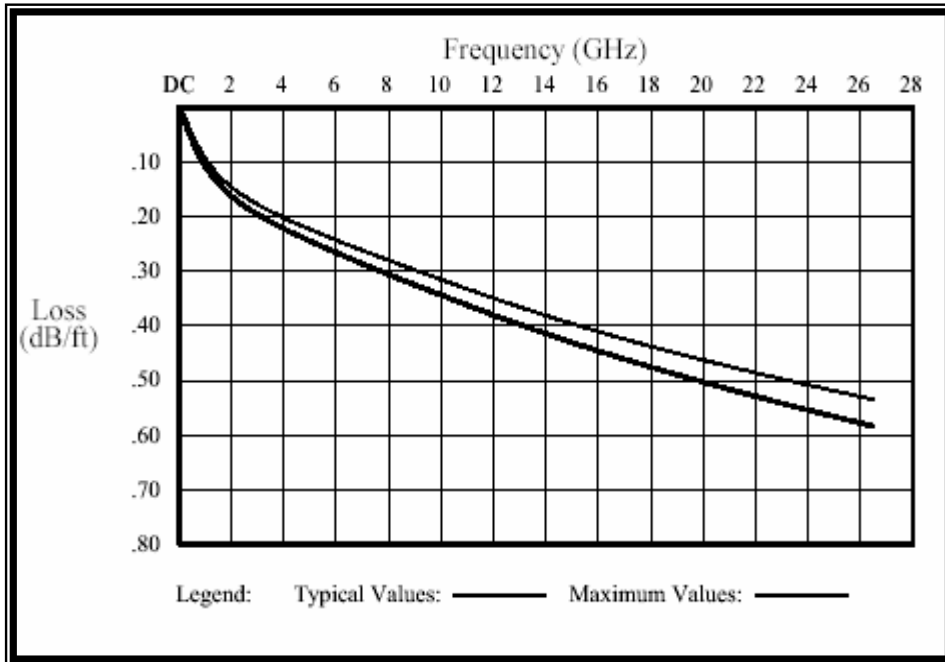


FC105 Flexible Coaxial Cable 26.5 GHz Cable

Frequency vs. Attenuation

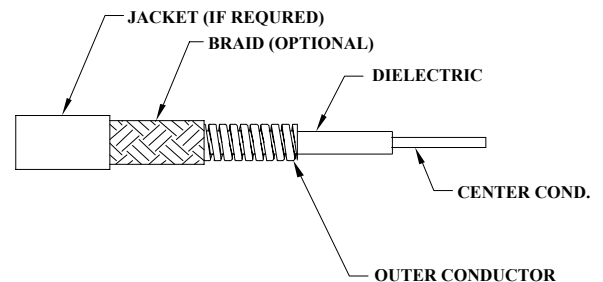


Electrical Characteristics:

| | |
|------------------------------------|------------------------------------|
| Nominal Impedance: | 50Ω |
| Velocity of Propagation: | 83% |
| Effective Dielectric Constant: | 1.45 |
| Time Delay: | 1.22 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 |
| 18 GHz - 26.5 GHz | 1.35:1 |
| 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 |
| 18 GHz - 26.5 GHz | 1.50:1 |
| Maximum Frequency: | 26.5 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) | Loss per precision connector (dB) | Loss per non precision or angle connect. (dB) |
|-----------------|--------------------------------|--------------------------------|-----------------------------------|---|
| 0.50 | 0.04 | 0.03 | 0.02 | 0.03 |
| 1.00 | 0.11 | 0.10 | 0.03 | 0.03 |
| 2.00 | 0.16 | 0.14 | 0.04 | 0.05 |
| 4.00 | 0.22 | 0.20 | 0.04 | 0.06 |
| 6.00 | 0.26 | 0.24 | 0.05 | 0.09 |
| 8.00 | 0.30 | 0.28 | 0.06 | 0.11 |
| 10.00 | 0.34 | 0.32 | 0.07 | 0.12 |
| 12.00 | 0.37 | 0.35 | 0.08 | 0.13 |
| 14.00 | 0.41 | 0.38 | 0.09 | 0.14 |
| 16.00 | 0.43 | 0.40 | 0.10 | 0.15 |
| 18.00 | 0.48 | 0.44 | 0.11 | 0.17 |
| 22.00 | 0.52 | 0.48 | 0.13 | 0.20 |
| 24.00 | 0.55 | 0.50 | 0.14 | 0.25 |
| 26.50 | 0.59 | 0.54 | 0.15 | 0.30 |



Physical Characteristics:

| | |
|-------------------------------|---|
| Center Cond.: | Stranded SPC |
| Dielectric: | Expanded PTFE |
| Outer Conductor: | Strip wound oxygen free copper per UNS C10200, 0.216" max. O.D. |
| Minimum Internal Bend Radius: | 0.5 inches |
| Operating Temperature: | -60°C to +175°C |
| Weight per Foot (unjacketed): | 0.040 lbs |

Optional Jacketing and Braid:

Polyolefin per AMS-DTL-23053/5: 0.250" max. O.D.
 Neoprene per AMS-DTL-23053/1: 0.285" max. O.D.
 FEP per AMS-DTL-23053/11: 0.240" max. O.D.
 Braid: Bronze per UNS C22000, 0.250" max. O.D.
 Others available, please consult factory.