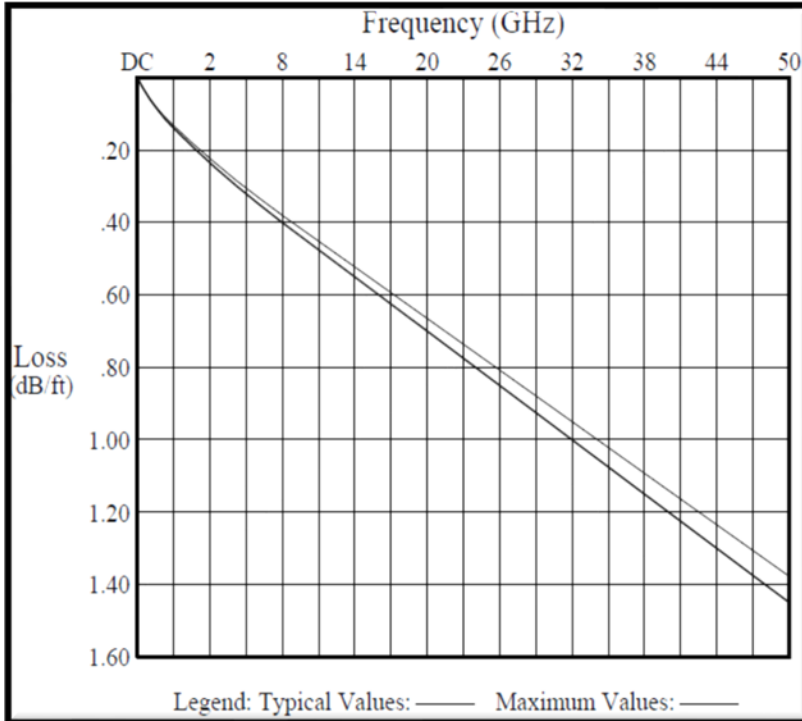


FC182 Flexible Coaxial Cable 50 GHz Cable

Frequency vs. Attenuation



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)
0.5	0.08	0.07	0.02	0.03
1.0	0.12	0.11	0.02	0.03
2.0	0.18	0.17	0.03	0.05
4.0	0.26	0.24	0.04	0.06
6.0	0.34	0.32	0.06	0.09
8.0	0.40	0.38	0.07	0.11
10.0	0.46	0.44	0.08	0.12
12.0	0.51	0.48	0.08	0.12
14.0	0.56	0.53	0.09	0.14
16.0	0.60	0.57	0.10	0.15
18.0	0.65	0.62	0.11	0.17
20.0	0.70	0.66	0.12	0.19
22.0	0.75	0.71	0.13	0.23
24.0	0.80	0.76	0.14	0.26
26.0	0.83	0.78	0.15	0.30
28.0	0.90	0.85	0.16	
30.0	0.95	0.90	0.16	
32.0	1.00	0.95	0.17	
34.0	1.06	1.00	0.18	
36.0	1.10	1.04	0.19	
38.0	1.15	1.10	0.20	
40.0	1.20	1.14	0.20	
50.0	1.47	1.40	0.35	

Electrical Characteristics:

Nominal Impedance: 50Ω
 Velocity of Propagation: 69%
 Effective Dielectric Constant: 2.10
 Time Delay: 1.47 ns/ft
 Shielding Effectiveness: -90 dBc min.
 Dielectric Withstanding Voltage: 5.0 KV
 (@ 60 Hz, Sea Level/25°C)

Nominal Capacitance: 29 pF/ft
 Maximum VSWR:

Precision Straight connectors:

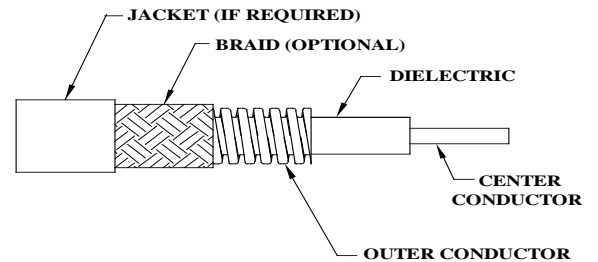
DC - <4 GHz 1.10:1
 4 GHz - <8 GHz 1.15:1
 8 GHz - <18 GHz 1.25:1
 18 GHz - <26.5 GHz 1.35:1
 26.5 GHz - 50 GHz 1.45:1

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: 50 GHz

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



Physical Characteristics:

Center Conductor: Solid SPC per ASTM B298
 Dielectric: PTFE per ASTM D4895
 Outer Conductor: Strip wound oxygen free copper per UNS C10200, 0.210" max. O.D.
 Minimum Internal Bend Radius: 0.5 inches
 Operating Temperature: -60°C to +175°C
 Weight per Foot (unjacketed): 0.035 lbs
 Connector Interface: Per MIL-STD-348

Optional Jacketing and Braid:

Polyolefin per SAE AS23053/5: 0.250" max. O.D.
 Neoprene per SAE AS23053/1: 0.285" max. O.D.
 FEP per SAE AS23053/11: 0.240" max. O.D.
 Braid: Bronze per UNS C22000, 0.250" max. O.D.
 Others available, please consult factory.