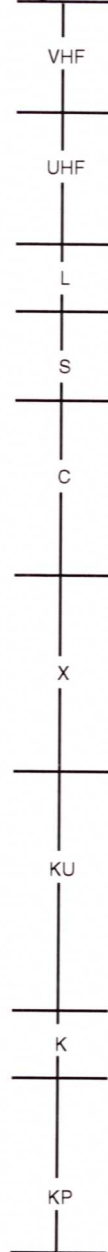


**INSERTION LOSS VS FREQUENCY**

FREQ. GHz	.090"	.125"	.142"	.200"	.275"	.296"	.532"
.01	.017	.010	.010	.006	.004	.004	.002
.05	.038	.023	.022	.014	.010	.009	.005
.10	.055	.033	.031	.020	.014	.013	.007
.20	.078	.048	.045	.029	.020	.019	.011
.30	.096	.060	.056	.036	.025	.023	.013
.40	.112	.069	.065	.042	.029	.027	.016
.50	.126	.078	.073	.047	.033	.031	.018
.60	.138	.086	.081	.052	.037	.034	.020
.70	.150	.094	.088	.057	.040	.037	.022
.80	.161	.101	.094	.062	.043	.040	.024
.90	.172	.108	.101	.066	.046	.043	.026
1.00	.182	.114	.107	.070	.049	.045	.027
1.50	.226	.144	.133	.088	.062	.057	.035
2.00	.264	.169	.157	.105	.073	.068	.043
2.50	.299	.193	.179	.120	.084	.078	.049
3.00	.331	.214	.198	.134	.098	.087	.056
3.50	.361	.234	.217	.147	.103	.096	.062
4.00	.389	.235	.235	.160	.112	.104	.068
4.50	.416	.273	.252	.172	.120	.112	.074
5.00	.442	.291	.269	.184	.128	.120	.080
5.50	.467	.309	.285	.196	.136	.127	.085
6.00	.491	.326	.300	.207	.144	.135	.091
6.50	.514	.342	.315	.218	.152	.142	.096
7.00	.537	.359	.330	.229	.159	.149	.102
7.50	.559	.374	.344	.240	.167	.156	.107
8.00	.581	.390	.358	.250	.174	.163	.112
8.50	.602	.405	.372	.260	.181	.170	.117
9.00	.623	.420	.386	.270	.188	.176	
9.50	.643	.435	.399	.280	.195	.183	
10.00	.663	.450	.412	.290	.202	.189	
10.50	.683	.464	.425	.300	.209	.196	
11.00	.702	.478	.438	.309	.216	.202	
11.50	.721	.492	.450	.319	.222	.208	
12.00	.740	.506	.463	.328	.229	.214	
12.50	.759	.519	.475	.337	.235	.220	
13.00	.777	.533	.487	.347	.242	.226	
13.50	.795	.546	.499	.356	.248	.232	
14.00	.813	.560	.511	.365	.254	.238	
14.50	.830	.573	.523	.374	.261	.244	
15.00	.848	.586	.535	.383	.267	.250	
15.50	.865	.599	.547	.392	.273	.256	
16.00	.882	.612	.558	.400	.279	.262	
16.50	.899	.624	.570	.409	.285		
17.00	.916	.637	.581	.418	.291		
17.50	.933	.649	.592	.427	.297		
18.00	.949	.662	.603	.436	.303		
20.00	1.014	.711	.647	.469			
22.00	1.077	.759	.690	.502			
24.00	1.138	.806	.732	.535			
26.00	1.198	.851	.773	.567			
28.00	1.256	.897	.813				
30.00	1.313	.941	.853				
32.00	1.370	.985	.892				
34.00	1.425	1.028	.931				
36.00	1.479	1.071	.969				
38.00	1.533	1.113	1.007				
40.00	1.586	1.155	1.004				
42.00							
44.00							

**Band  
Designation**

**CONNECTOR LOSS**

FREQ		dB/PAIR
0.5 GHz	-	0.050
2 GHz	-	0.300
4 GHz	-	0.325
8 GHz	-	0.375
12 GHz	-	0.425
16 GHz	-	0.475
18 GHz	-	0.500

To calculate insertion loss for a cable assembly multiply length in feet Times loss in dB/ft as indicated above. Add the applicable loss for the Connector pair. Round up the total to the next highest tenth dB. For Maximum insertion loss of a cable assembly calculate loss at the Highest frequency.

EXAMPLE: Cable assembly: .296" dia., 6' length, TNC-M/M, Freq. 8 GHz  
 .163 dB x 6 = .978  
 .978 + .375 = 1.353 = 1.4 dB max.