



Center Conductor	.0883"	Silver Plated Copper
Dielectric	.241"	Expanded PTFE
Inner Shield	.255"	Helical Foil
Outer Braid	.273"	Silver Plated Copper Braid
Jacket	.360"	Black Polyurethane

**Mechanical Characteristics**

Inside Minimum Bend Radius      2.0" nominal  
 Max Operating Temperature      -55<sup>0</sup> to +85<sup>0</sup>C  
 Weight      106.0-lbs/1000 ft

**Electrical Characteristics**

Characteristic Impedance:      50 Ohms nominal  
 Velocity of Propagation:      82% nominal  
 Capacitance:      25 pf/ft nominal  
 Shielding:      -90 dB minimum  
 Insertion Loss:  
 To calculate Insertion Loss for other Frequencies Use:  
 $IL = .13134 \times \sqrt{\text{Freq}} + 0.0001341 \times \text{Freq} (*\text{MHz}) \text{ dB}/100\text{ft}$

Freq. (GHz)	Attenuation dB/100ft	Average Power @ Sea level, 25°C (KW)
0.5	3.0	1.69
1	4.3	1.19
2	6.2	0.83
3	7.6	0.67
4	8.8	0.58
5	9.9	0.51
6	11.0	0.47
10	14.5	0.36
12	16.0	0.32
16	18.7	0.28
18	20.0	0.26

Drawn by: E Pallanti Date: December 10, 2013 510-0076	<b>TIMES MICROWAVE SYSTEMS</b> Wallingford, CT. 06492-5039 CAGE 68999; (203) 949-8400
<b>HF-290-PUR</b>	Drawing No.: <b>AA-11456</b>
<a href="http://www.timesmicrowave.com">www.timesmicrowave.com</a>	Rev --B <span style="float: right;">Pg 1 of 1</span>