



**.047 DIA.  
50 OHM COPPER**

		<b>HCMC PART NUMBERS</b>		
<b>ELECTRICAL DATA</b>	<b>HC 10000-1</b>	<b>HC 10000-3</b>		
Impedance (Ohms)	50 +/- 1.5	50 +/- 1.5		
Dielectric Strength (KVRMS 60 Hz)	2	2		
Corona Extinction (KVRMS 60 Hz)	1 Min	1 Min		
Max Operating Frequency (GHz)	109	109		
MAX ATTENUATION, db/100 FT. AT 20°C AND AVG. PWR., WATTS, UNITY VSWR, 40°C AMB., STILL AIR				
<b>FREQUENCY GHz</b>	<b>ATTEN.</b>	<b>AVG. PWR.</b>	<b>ATTEN.</b>	<b>AVG. PWR.</b>
1.0	34	56	34	56
10.0	114	17	114	17
20.0	166	11	166	11
<b>MECHANICAL DATA</b>				
Inner Conductor O.D. (inches)	.0113 +/- .0005	.0113 +/- .0005		
Inner Conductor Material	SPCW	SPCW		
Inner Dielectric Material	PTFE, F1	PTFE, F1		
Dielectric O.D. (inches)	.037 +/- .001	.037 +/- .001		
Outer Conductor O.D. (inches)	.047 +/- .001	.047 + .002 - .001		
Outer Conductor Material	COPPER	COPPER/TIN		
Safe Bend Radius (proper tooling) (inch)	.050	.050		
Max. Weight (lbs./1000 ft.)	4.3	4.5		
Operating Temp. Max. Degrees C	-55 / +150	-55 / +150		