



Cable Construction

A.	Center Conductor:	.0403 +/- 0.001"	Silver Plated Copper
B.	Dielectric:	.1200 +/- 0.001"	Tape Wrapped PTFE
C.	Electrical Shield:	.1300 +/- 0.005"	Silver plated copper strip
D.	Interlayer:	.1350 +/- 0.005"	Metallized composite tapes
E.	Outer Shield:	.1570 +/- 0.005"	36 Ga Silver Plated Copper
F.	Jacket:	.1770 +/- 0.005"	FEP

Mechanical Characteristics

Diameter	0.182" max
Minimum Bend Radius (Static)	0.800" inches
Operating Temperature	-55 to +200 degrees C
Weight	.036 Lbs/Ft

Electrical Characteristics

Maximum Frequency	36.0 GHz
Characteristic Impedance	50 Ohms +/-1
Velocity of Propagation	76% nominal
Capacitance	26.80 pf/ft nominal
Delay	1.34 nsec/ft nominal
Shielding	-90 dB minimum
Insertion Loss	See Chart

dB/Ft	Frequency
0.1051	1.0 GHz
0.2389	5.0 GHz
0.3420	10.0 GHz
0.3761	12.0 GHz
0.4652	18.0 GHz

$K1 = 0.32796 \times \text{Sqrt Frequency}$
 $K2 = 0.000140 \times \text{Frequency}$

High Performance RF cable
 Drawn By: E. Pallanti

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 Revision: --B

Unless specified all dimensions are in inches.
 51742

TIMES MICROWAVE SYSTEMS

Wallingford, CT. 06492-5039
 CAGE 68999

SFT 142

Drawing Number AA 8650