



Construction / Mechanical Specification

Section	Material	Dimensions	
A. Center Conductor	Silver Plated Copper (ASTM B298)	0.0201 in	0.5105 mm
B. Dielectric Insulation	PFA (High Purity)	0.0650 in	1.651 mm
C. Inner Shield	Silver Plated Copper (ASTM B298)	N/A	N/A
D. Outer Braid Shield	Silver Plated Copper (ASTM B298)	0.085 in	2.159 mm
E. Outer Jacket	FEP (MIL-DTL-17, Type IX)	0.101 in	2.565 mm

Minimum Static Bend Radius (<math><0.5\Omega</math>)	0.30 in	7.62 mm
Cable Weight ¹	13.0 lbs/kft	19.36 kg/km
Material Flammability Rating	V-0 (UL 1354)	
Operating Temperature	-85°F - 329°F	-65°C - 165°C

Electrical Specification

Characteristic Impedance	$50 \Omega \pm 1 \Omega$	
Time Delay	1.450 ± 0.010 ns/ft	4.757 ± 0.033 ns/m
Velocity of Propagation ¹	70.0%	
Capacitance ¹	29.0 pF/ft	95.1 pF/m
Cut off Frequency ¹	62 GHz	
Shielding Effectiveness (Static) ¹	>100 dB	

¹Typical/Nominal Values

Attenuation vs. Frequency

Frequency (GHz)	(dB / ft)	(dB / m)
1	0.20	0.66
4	0.43	1.41
8	0.63	2.07
18	1.01	3.31
26	1.25	4.10
34	1.50	4.92
40	1.65	5.41
50	1.90	6.23



