



Construction / Mechanical Specification

Section	Material	Dimensions	
A. Center Conductor	Silver Plated Copper (ASTM B298)	0.0359 in	0.9119 mm
B. Dielectric Insulation	PFA (High Purity)	0.1170 in	2.972 mm
C. Inner Shield	Silver Plated Copper (ASTM B298)	N/A	N/A
D. Outer Braid Shield	Silver Plated Copper (ASTM B298)	0.138 in	3.505 mm
E. Outer Jacket	FEP (MIL-DTL-17, Type IX)	0.158 in	4.013 mm

Minimum Static Bend Radius (<math><0.5\Omega</math>)	0.50 in	12.70 mm
Cable Weight ¹	28.0 lbs/kft	41.67 kg/km
Material Flammability Rating	V-0 (UL 1354)	
Operating Temperature	-85°F - 329°F	-65°C - 165°C

Electrical Specification

Characteristic Impedance	50 Ω \pm 1 Ω	
Time Delay	1.450 \pm 0.010 ns/ft	4.757 \pm 0.033 ns/m
Velocity of Propagation ¹	70.0%	
Capacitance ¹	29.0 pF/ft	95.1 pF/m
Cut off Frequency ¹	34 GHz	
Shielding Effectiveness (Static) ¹	>100 dB	

¹Typical/Nominal Values

Attenuation vs. Frequency

Frequency (GHz)	(dB / ft)	(dB / m)
1	0.11	0.36
4	0.25	0.82
8	0.39	1.28
12	0.50	1.64
18	0.66	2.17
26	0.85	2.79
34	0.97	3.18



