

**Specifications**

**Physical Dimensions**

Component	Inches	mm
Nominal Center Conductor Diameter	0.124	3.15
Nominal Diameter Over Dielectric	0.513	13.03
Nominal Diameter Over Outer Conductor	0.540	13.72
Nominal Outer Conductor Thickness	0.0135	0.343
Nominal Diameter Over Jacket	0.610	15.49
Nominal Jacket Wall Thickness	0.035	0.89
<b>Messenger Versions *</b>		
Diameter of Steel Messenger	0.109	2.77

**Mechanical Characteristics**

Minimum Bending Radius (Jacketed)	4.0 in.	10.2cm
Maximum Pulling Tension	220 lbs.	100 kg,
Minimum Breaking Strength of Messenger	1800 lbs.	816 kg,

**Electrical Characteristics**

Capacitance	15.3±1.0 pf/ft	50±3.0 nf/km
Impedance	75±2ohms	
Velocity of Propagation	87%	
Shielding Effectiveness	>100dB	

**Mechanical D.C. Resistance @ 68°F. (20°C)**

**Copper Clad**

Inner Conductor	1.02ohms/1000ft.	3.34ohms/km
Outer Conductor	0.59ohms/1000ft.	1.94ohms/km
Loop	1.61ohms/1000ft.	5.28ohms/km

**Solid Copper**

Inner Conductor	0.67ohms/1000ft.	2.20ohms/km
Outer Conductor	0.59ohms/1000ft.	1.94ohms/km
Loop	1.26ohms/1000ft.	4.14ohms/km

**Standard Construction**

0.124 in. (3.15mm) copper clad aluminium or copper center conductor; gas expanded polyethylene dielectric; continuous aluminium outer conductor; flame retardant polyethylene (PE) jacket. Nominal O.D. 0.610 in. (15.49mm).

**Attenuation [ @ 68°F. (20°C) ]**

Frequency (MHz)	Maximum (dB/100ft.)	Maximum (dB/100m)
5	0.14	0.46
30	0.34	1.12
45	0.41	1.35
50	0.44	1.44
55	0.47	1.54
83	0.58	1.90
108	0.66	2.17
150	0.79	2.59
181	0.88	2.89
193	0.90	2.95
211	0.95	3.12
220	0.98	3.22
250	1.03	3.38
270	1.07	3.51
300	1.13	3.71
325	1.18	3.87
350	1.23	4.03
375	1.27	4.17
400	1.32	4.33
425	1.37	4.49
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12