

**4D-FB****Construction**

Item	Material	Diameter (mm)
Inner Conductor	Bare Copper or Copper Clad Steel	1.42
Dielectric	Foam PE	3.80
First Shield	Bonded Aluminum Foil	3.94
Second Shield	Tinned Copper wire Braid (70%)	16/6/0.12mm
Jacket	PVC or PE	6.10

**Electrical Characteristics**

Impedance ( $\Omega$ )	50 $\pm$ 3
Capacitance (pF/m)	82 $\pm$ 2
Velocity of Propagation (%)	81.0
Dielectric strength (KV)	1.6
V.S.W.R	$\leq$ 1.3
Return Loss	$\geq$ 20
Screening Effectiveness (dB)	$\geq$ 85
Min. Bending Radius (mm)	30.0
Operating Temp. ( $^{\circ}$ C)	-25 to +70

**Attenuation ( @ 20  $^{\circ}$ C )**

Frequency(MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
150	3.0	10.0
280	3.9	12.9
350	5.0	16.5
400	5.3	17.5
800	7.2	23.6
900	7.5	24.5
1200	8.7	28.4
1500	10.2	33.5
1800	11.3	37.2
1900	11.6	37.9
2000	11.8	38.7
2200	12.3	40.5
2500	13.1	43.1
3000	14.8	48.6