

**7D-FB-AL****Construction**

Item	Material	Diameter (mm)
Inner Conductor	Bare Copper or Copper Clad Aluminum	2.60
Dielectric	Foam PE	7.30
First Shield	Bonded Aluminum Foil	7.50
Second Shield	Aluminum wire Braid (90%)	16/9/0.15mm
Jacket	PVC or PE	9.80

**Electrical Characteristics**

Impedance ( $\Omega$ )	50 $\pm$ 3
Capacitance (pF/m)	84
Velocity of Propagation (%)	82.0
Dielectric strength (KV)	1.6
V.S.W.R	$\leq$ 1.3
Return Loss	$\geq$ 20
Screening Effectiveness (dB)	$\geq$ 90
Min. Bending Radius (mm)	45.0
Operating Temp. ( $^{\circ}$ C)	-25 to +70

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

Frequency(MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
100	1.3	4.3
150	1.6	5.4
280	2.3	7.5
350	2.6	8.4
400	2.7	9.0
800	3.9	12.8
900	4.3	14.1
1200	5.1	16.8
1500	5.9	19.2
1800	6.5	21.4
1900	6.8	22.2
2000	7.1	23.2
2200	7.3	23.9
2500	7.8	25.6
3000	9.0	29.5