

8D-FB-AL**Construction**

| Item | Material | Diameter (mm) |
|-----------------|-------------------------------------|---------------|
| Inner Conductor | Bare Copper or Copper Clad Aluminum | 2.80 |
| Dielectric | Foam PE | 7.80 |
| First Shield | Bonded Aluminum Foil | 8.00 |
| Second Shield | Aluminum wire Braid (90%) | 16/9/0.15mm |
| Jacket | PVC or PE | 10.60 |

Electrical Characteristics

| | |
|---------------------------------|------------|
| Impedance (Ω) | 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) | 55.0 |
| Operating Temp. ($^{\circ}$ C) | -25 to +70 |

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

| Frequency(MHz) | Max Attenuation (dB/100ft) | Max Attenuation (dB/100m) |
|----------------|----------------------------|---------------------------|
| 100 | 1.2 | 4.1 |
| 150 | 1.6 | 5.1 |
| 280 | 2.2 | 7.1 |
| 350 | 2.5 | 8.1 |
| 400 | 2.7 | 8.7 |
| 800 | 3.9 | 12.9 |
| 900 | 4.2 | 13.8 |
| 1200 | 5.0 | 16.3 |
| 1500 | 5.7 | 18.6 |
| 1800 | 6.3 | 20.8 |
| 1900 | 6.6 | 21.5 |
| 2000 | 6.7 | 22.1 |
| 2200 | 7.2 | 23.5 |
| 2500 | 7.7 | 25.4 |
| 3000 | 8.7 | 28.4 |