

Product Spec Sheet

Foam Dielectric Radiating Coaxial Cable



Model : RFCL-FR 42D (1-5/8")

Features



- ✓ Low Attenuation and VSWR
- ✓ Optimized Coupling Loss at specific frequency
- ✓ (Option) Self Support type: easy deployment

Specification

Construction		
Inner Conductor	Material	Corrugated copper tube
	Diameter(mm)	Nominal 18.2
Dielectric	Material	Foamed polyethylene
	Diameter(mm)	Nominal 46.4
Outer Conductor	Material	Overlapped copper foil with punched leaky slots
	Diameter(mm)	Nominal 46.6
Jacket	Material	Flame-Retardant / Halogen-Free black PE
	Diameter(mm)	Nominal 50.4

Mechanical / Environmental Characteristics	
Weight	Nominal 0.9 kg/m
Minimum Bending Radius	700 mm
Indication of Slot Alignment	Guide opposite to slots
Operating Temperature	-30 °C ~ +70 °C
Flame-Retardant test method	IEC 60332-1 & 60332-3-24
Halogen Free / Non corrosive test method	IEC 60754-2
Low Smoke test method	IEC 61034

Electrical Characteristics	
Characteristic Impedance	Nominal 50 Ω
Dielectric Strength	DC 11,000V For 1 Min
Min. Insulation Resistance	10,000 MΩ.km
Polarization	Parallel
Coupling Loss test method	IEC 61196-4 free space method
Operating Frequency	700~2,700 MHz
Stop Band	540~580, 1,100~1,140, 1,660~1,700, 2,200~2,260 MHz

Frequency (MHz)	Attenuation (dB/100m)	Coupling Loss (dB, 50% / 95%)
800	1.9	67 / 72
900	2.1	64 / 67
1,800	3.5	62 / 65
2,200	4.4	61 / 64
2,400	5.1	61 / 64
2,700	6.4	60 / 65

- The attenuation may rise by 0.2%/°C with ambient temperature rising.
- Attenuation / Coupling Loss are nominal values.
- Maximum attenuation value shall not exceed 110% of nominal value.
- Maximum coupling loss value shall not exceed "nominal value + 10dB".
- Specifications be subject to change without notice.

The drawing appearing on this page is not a warranty, and may be subject to change or modification without any prior notice.