

SRFS TELEINFRA

Foam Dielectric Radiating Coaxial Cable

Model : RFCL 22D / RFCL-FR 22D (7/8")



- **Low Attenuation and VSWR**

- The low attenuation of RFCL radiating coaxial cable series provides efficient transmission line

- The unique design and precise manufacturing process offer the excellent VSWR performance

- **Wide range of operating frequency**

- Due to the wide range of operating frequency, RFCL radiating coaxial cable series could be applicable to most wireless application of tunnel, underground and in-building such as FM,

DMB, and broadcasting

- **Other advantages of RFCL**

- Better coupling loss at specific frequency by optimized slot design

- Longer radiation distance



CONSTRUCTION		
Inner Conductor	Material / Construction	Smooth/Corrugate copper tube
	Diameter(mm)	9.50 mm +/- 0.2mm
Dielectric	Material / Construction	Foamed Polyethylene
	Diameter(mm)	Nominal 23.9mm
Outer Conductor	Material / Construction	Copper foil
Jacket	Material / Construction	LSZH Polyolefin or PE (Black)
	Diameter(mm)	Maximum 27.7 mm
MECHANICAL SPECIFICATIONS		
Weight (Support Type)	0.42 kg/m +/- 0.02	
Operating Temperature	-30°C~+80°C	
Tensile Strength (Min)	215 kg/ 2100N	
Fire Retardancy Test Method	IEC 60332-1	
Smoke Index Test Method	IEC 61034	
Toxicity Index Test Meth	IEC 60754-1	

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ELECTRICAL SPECIFICATIONS			
Max. DC Resistance		Inner Conductor	1.69 ohms / km
		Outer Conductor	3.5 ohms / km
Operating Frequency		75-2700MHz	
Dielectric Strength		DC 6,000V For 1 Min	
Min. Insulation Resistance		10000 MΩ km	
Velocity of Propagation		89%	
Polarization		Vertical / Horizontal	
Characteristic Impedance		50 ohm +/- 2 ohm	
Jacket Spark Test Voltage (rms)		8000 V	
Peak Power		91.0 kW	
Attenuation Test Method		IEC 61196-4	
Attenuation Tolerance		±10%	
Attenuation, Ambient Temperature		20 °C	
Coupling Loss Test Method		IEC 61196-4	
Coupling Loss Tolerance		+/- 5db	
Frequency(MHz)	Attenuation(dB/100m)	Coupling Losses 50%	Coupling Losses 95%
150	1.42	59	61
400	2.55	61	65
450	2.60	61	64
700	3.34	67	77
900	4.15	60	65