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# Data sheet

## DragonTECH Leaky Radiating Coaxial Cables

A radiating cable functions both as a transmission line and as an antenna. Our 50 ohms radiating coaxial cables have very good performance and are widely used in the following applications:

- Mines
- Subways
- Tunnels



		1-5/8"		1-1/4"	7/8"	1/2"		3/8"	
		-1	-2			-1	-2		
<b>Physical Dimensions</b>									
Inner Conductor	Material	Corrugated Cu-tube		Smooth Cu-tube		CCA			
	Diameter(mm)	17.30	13.10	9.05	4.80	3.15			
Outer Conductor	Diameter(mm)	46.50	35.80	24.90	13.80	9.50			
	Thickness(mm)	1.75	1.80	1.30	1.00	0.85			
*Jacket	Diameter(mm)	50.00	39.40	27.50	15.80	11.20			
<b>Mechanical Characteristics</b>									
Min. bending Radius(10)(mm)		510	400	280	125	95			
Max. Pulling Strength(N)		3630	5900	1470	1130	800			
<b>Electrical Characteristics</b>									
DC Resistance ≤ (Ω /km) (20 °C)	Inner Conductor	0.83	0.83	0.72	1.05	1.48	1.48	3.48	
	Outer Conductor	0.70	0.60	0.72	1.36	2.20	2.30	3.30	
Nominal Capacitance (pF/m)		76	75	76.1	75.8	75			
Characteristic Impedance (Ω)		50±1							
Velocity Ratio (%)		88	89	89	88	88			
Attenuation (20 °C) (dB/100m)	150MHz	0.8	1.0	1.3	1.8	3.3	3.6	4.9	
	450MHz	2.0	2.5	3.0	3.6	6.6	8.2	8.5	
	900MHz	2.7	3.3	4.0	5.1	9.5	11.8	12.1	
	1800MHz	4.4	5.1	5.6	7.6	13.1	16.1	17.4	
	2400MHz	---	---	6.9	9.2	15.7	19.0	---	
*Coupling Loss (2m) (dB±10dB)	150MHz	71	60	64	62	58	52	56	
	450MHz	80	67	75	72	63	57	61	
	900MHz	79	68	77	72	68	63	68	
	1800MHz	89	78	84	84	73	69	74	
	2400MHz	---	---	76	76	73	69	---	
VSWR	0.01GHz—3GHz	≤1.30							



\*Note: Fire-Retardency PE outer sheath can be available per customer's requirement.

\*Note: The value of coupling loss in the above table is attained according to IEC1196-4 specification. The statistical median is 50% the true value of coupling.