

RF RADIATING COAXIAL CABLE FOR INDOOR USE



RF CABLES

CONSTRUCTION

- 1. Inner Conductor : Corrugated Cu-Tube (for: 1 5/8")
Smooth Cu-Tube (for: 1 1/4" & 7/8")
- 2. Insulation : Foamed PE Dielectric
- 3. Slot
- 4. Outer Conductor : Annularly corrugated copper tube
- 5. Jacketing : PE Jacket

MECHANICAL

Cable Type	PHYSICAL DIMENSION				MECHANICAL CHARACTERISTIC
	Inner Conductor Diameter (mm)	Outer Conductor Diameter (mm)	Jacketing		
			Thickness (mm)	Diameter (mm)	
1/2" -1	4.8	13.8	1.0	15.8	125
1/2" -2					
7/8"	9.05	24.9	1.3	27.5	280
1 1/4"	13.1	35.8	1.8	39.4	400
1 5/8" -1	17.3	46.5	1.75	50.0	510
1 5/8" -2					

ELECTRICAL

- Shielding Effectiveness(db) : ≥ 120
- Insulation Resistance (m Ω .km) : $> 5 \times 10$
- VSWR (0.01 GHz-3GHz) : ≤ 1.30
- Characteristic Impedance (Ω) : Avg. 50 ± 1
- Attenuation :

Type	Attenuation at 20°C (dB/100m)				
	150 MHz	450 MHz	900 MHz	1800 MHz	2400 MHz
1/2" -1	3.30	6.60	9.50	13.10	15.70
1/2" -2	3.60	8.20	11.80	16.10	19.00
7/8"	1.80	3.60	5.10	7.60	9.20
1 1/4"	1.30	3.00	4.00	5.60	6.90
1 5/8" S-1	0.80	2.00	2.70	4.40	-
1 5/8" S-2	1.00	2.50	3.30	5.20	-

Normal Capacitance & Coupling Loss :

Type	Normal Capacitance (pF/m)	Type	Coupling Loss (2 m) (dB +/- 10 dB)				
			150 MHz	450 MHz	900 MHz	1800 MHz	2400 MHz
1/2" -1	75.8	1/2" -1	58	63	68	73	73
1/2" -2		1/2" -2	52	57	63	69	69
7/8"	7/8"	7/8"	62	72	72	84	76
1 1/4"	1 1/4"	1 1/4"	64	75	77		
1 5/8" S-1	15/8" S-1	15/8" S-1	71	80	79	89	-
1 5/8" S-2	1 5/8" S-2	1 5/8" S-2	60	67	68	78	