

## FOAM DIELECTRIC FEEDER CABLE

1/4" Superflexible

**Other Products:**

- 3/8" Superflexible
- 1/2" Standard
- 1/2" Aluminium
- 1/2" Superflexible
- 7/8" Standard
- 7/8" Aluminium
- 7/8" Superflexible
- 7/8" Low Loss
- 1-1/4" Standard
- 1-5/8" Standard
- 1-5/8" Aluminium

**1/4.. SUPERFLEXIBLE COAXIAL CABLE**

**MODEL: HCAA-50SF-1/4-Z**

Structure Dimension

Item	Diameter	Material
Inner Conductor	1.9 mm	Copper wire
Insulator	5.0 mm	Foamed polyethylene
Outer Conductor	6.4 mm	Helical corrugated copper tube
Jacket	8.0 mm	Polyethylene *

Mechanical Characteristics

Item	Specification	Remarks
Static Minimum Bending Radius	12,5 mm	Single bend
Dynamic Minimum Bending Radius	25 mm	Repeat for 15 times
Tensile Strength	400 N	
Cable Weight	70kg/km	

Electrical Characteristics

Item	Specification	Remark
Characteristic Impedance	50±1Ω	
Velocity	83%	Nominal value
Minimum Insulation Resistance	5000MΩ.km	DC 500V 1 minute
Capacitance	80pF/m	Nominal value
Dielectric Strength	DC2000V	1 minute
Inner Conductor DC Resistance	9.8 Ω/km	At 20°C
Outer Conductor DC Resistance	6.5 Ω/km	At 20°C
Peak Power Rating	6.4kW	
RF Peak Voltage	800V	
VSWR Typical Value	1.15	10M-3000MHz
	1.08	800M-1000MHz
	1.08	1700M-2000MHz
	1.08	2100M-2400MHz

Attenuation & Average Power Rating (dB/100m,KW)

Frequency MHz	Attenuation	Average Power	Frequency MHz	Attenuation	Average Power
10	1.71	2.8	1800	26.35	0.186
100	5.58	0.86	1900	27.16	0.181
150	6.89	0.70	2000	27.97	0.176
200	8.01	0.60	2100	28.75	0.171
300	9.92	0.49	2200	29.53	0.167
450	12.31	0.39	2400	31.06	0.154
500	13.03	0.37	2500	31.77	0.151
700	15.61	0.31	2700	33.21	0.149
800	16.80	0.290	3000	35.30	0.140
900	17.92	0.272	4000	41.86	0.115
1000	18.98	0.257	5000	47.83	0.100
1500	23.78	0.206	6000	53.42	0.090
1700	25.51	0.192	8000	63.78	0.075

\* The jacket can customize with Low Smoke Halogen Free.

