

SYNERGY TELECOM PVT. LTD

Product Specification

Foam Dielectric Flexib 7/8" Feeder Aluminium Cable

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

Construction

Inner Conductor	Smooth copper tube	Nom. 9.4mm
Dielectric	Foamed polyethylene	Nom. 23.0mm
Outer Conductor	Corrugated aluminum tube	Nom. 25.2mm
Jacket	Standard black PE or Flame-Retardant/Halogen-Free black PE	Nom. 28.2mm



1. Inner conductor
2. Dielectric
3. Outer conductor
4. Jacket

Mechanical Characteristics

Weight	Standard Jacket	Nom. 0.38 kg/m
	F-R Jacket	Nom. 0.41 kg/m
Minimum Bending Radius		250 mm
Flat Plate Crush Resistance		1.1 kg/mm
Operating Temperature	Standard Jacket	-40°C~+80°C
	F-R Jacket	-30°C~+80°C
Max. Pulling Force		147 kg

Electrical Characteristics

Max. Operating Frequency	5.0 GHz
Dielectric Strength	DC 6,000V For 1 Min
Min. Insulation Resistance	10,000 MΩ.km
Velocity of Propagation	89%
Peak Power Rating	91 kW
*Characteristic Impedance	50±1Ω
VSWR (800~960MHz, 1700~2170MHz)	1.15

*Characteristic Impedance is the average value at the frequency range of 30 ~ 2400 MHz.

*The above electrical figures should be guaranteed on condition that the cable is well fitted with our supplied connectors for good electrical matching at the cable length 100M.

Frequency (MHz)	nominal Attenuation dB/100m(dB/100ft) @20°C	Average Power Rating (kW)
30	0.64 (0.20)	-
100	1.19 (0.36)	7.18
150	1.47 (0.45)	5.83
450	2.65 (0.81)	3.30
824	3.68 (1.12)	2.40
890	3.85 (1.17)	2.30
960	4.01 (1.22)	2.21
1,000	4.10 (1.25)	2.17
1,700	5.54 (1.69)	1.63
1,800	5.73 (1.75)	-
2,000	6.09 (1.86)	1.49
2,300	6.63 (2.02)	1.38
2,700	7.30 (2.13)	-
3,000	7.81 (2.38)	1.19
3,400	8.52 (2.60)	-
4,000	9.42 (2.87)	-
5,000	10.84 (3.30)	-

*The attenuation may rise by 0.2%/ °C with rising temperature.

*Maximum attenuation value shall not exceed 110% of nominal value.