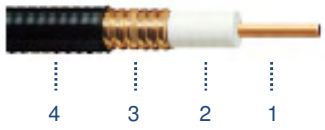
Product Specification

Foam Dielectric Flexible RF Feeder Cable

Model : HFC 12D / HFC-FR 12D (1/2")

Construction

Inner Conductor	Copper-clad aluminum	Nom. 4.8mm
Dielectric	Foamed polyethylene	Nom. 12.0mm
Outer Conductor	Corrugated copper tube	Nom. 13.8mm
Jacket	Standard black PE or Frame-Retardant/Halogen-Free black PE	Nom. 16.0mm



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

Mechanical Characteristics

Weight	Standard Jacket	Nom. 0.22 kg/m
	F-R Jacket	Nom. 0.24 kg/m
Minimum Bending Radius		70 mm
Flat Plate Crush Resistance		2.0 kg/mm
Operating Temperature	Standard Jacket	-40°C~+80 °C
	F-R Jacket	-30 °C~+80 °C
Max. Pulling Force		113 kg

Electrical Characteristics

Max. Operating Frequency	8.8 GHz
Dielectric Strength	DC 4,000V For 1 Min
Min. Insulation Resistance	10,000 MΩ.km
Velocity of Propagation	88%
Peak Power Rating	40 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/100fit) @20 ℃	Average Power Rating (kW)
30	1.17 (0.36)	6.19
100	2.17 (0.66)	3.36
150	2.67 (0.81)	2.74
450	4.75 (1.45)	1.56
824	6.49 (1.98)	1.14
890	6.76 (2.06)	1.10
960	7.04 (2.15)	1.05
1,000	7.20 (2.19)	1.03
1,700	9.61 (2.93)	0.78
1,800	9.91 (3.02)	0.76
2,000	10.70 (3.26)	0.72
2,300	11.54 (3.52)	0.66
2,700	12.61 (3.84)	0.62
3,000	13.44 (4.10)	0.58
3,400	14.44 (4.40)	0.54
4,000	15.81 (4.82)	0.49
5,000	17.77 (5.42)	0.44

*The attenuation may rise by 0.2%/ ℃ with rising temperature.
*Maximum attenuation value shall not exceed 105% of nominal value.

Cost:- INR 275 PER MTR.

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