

Product Spec Sheet

Low Loss Flexible Foam Dielectric Feeder



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

Features



• Low Attenuation

The low attenuation of LHF coaxial cable series provides efficient transmission line for your RF system.

• Low VSWR

The low VSWR of LHF coaxial cable series should guarantee your RF system without noise.

• Complete Protection

The outer conductor of LHF coaxial cable series makes important contribution to minimize system interferences.

• Easy connecting

Full line of high-quality connector and cable preparation tools to minimize installation time and cost

Specification

Construction

Inner Conductor	Copper-clad aluminum Nominal 5.0 mm
Dielectric	Foamed polyethylene Nominal 12.5 mm
Outer Conductor	Corrugated copper tube Nominal 14.1 mm
Jacket	Standard black PE or Flame-Retardant/Halogen-Free black PE Nominal 16.3 mm

Mechanical Characteristics

Weight	Standard Jacket	Nominal 0.21 kg/m
	F-R Jacket	Nominal 0.24 kg/m
Minimum Bending Radius		125 mm
Flat Plate Crush Resistance		1.6 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
DC Resistance	Inner Conductor	1.6 Ω/km (0.5 Ω/1,000ft)
	Outer Conductor	3.0 Ω/km (0.9 Ω/1,000ft)
Dielectric Strength		DC 4,000V For 1 Min
Min. Insulation Resistance		10,000 MΩ.km
Velocity of Propagation		89%
Peak Power Rating		40 kW
Characteristic Impedance		50Ω
Return Loss (Typical Value) (dB)		23

Frequency (MHz)	Attenuation dB/100m(dB/100ft)	Average Power Rating (kW)
30	1.14 (0.35)	6.10
100	2.12 (0.65)	3.32
150	2.60 (0.79)	2.71
450	4.58 (1.40)	1.55
700	5.74 (1.75)	1.27
824	6.31 (1.92)	1.13
894	6.55 (2.00)	1.09
960	6.84 (2.08)	1.05
1,000	7.00 (2.13)	1.03
1,700	9.32 (2.84)	0.78
1,800	9.61 (2.93)	0.76
2,000	10.19 (3.11)	0.71
2,300	10.80 (3.29)	0.67
2,400	11.10 (3.38)	0.65
2,700	12.53 (3.73)	0.61
3,000	12.96 (3.95)	0.58
3,400	13.92 (4.24)	0.53
3,500	14.20 (4.33)	0.52
4,000	15.27 (4.65)	0.50
5,000	17.15 (5.23)	0.44

* Contact LS Cable & System for your return loss specification of your required frequency band.

* Attenuation values are given at 20°C with a tolerance of +5%.

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

* Specifications are subject to change without notice.

Cost :- INR 375 PER MTR.

Your No1. Creative Partner LS RF Total Solution	Sales contact : www.lsrts.com
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