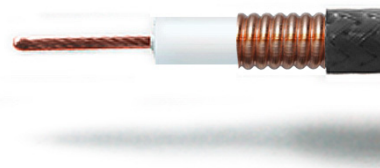




LDF4-50 Low Density Foam Coaxial Cable, Nylon Braid, MEGOLON™ Jacket

(Model: LDF4RK-50A-NM)



Specifications

Construction Materials

Outer Jacket Material	MEGOLON™ Low Fire Hazard Jacket, black
Extra Braid	Nylon
Inner Jacket Material	Non-halogenated, fire retardant polyolefin, black
Outer Conductor Material	Corrugated Copper
Dielectric Material	Foam PE
Inner Conductor Material	Copper-clad aluminium wire

Dimensions

Cable Weight	0.275 kg/m
Inner Conductor O/D	4.8260 mm
Diameter over Dielectric	12.954 mm
Diameter over Inner Jacket	16.002 mm
Braid over Inner Jacket	17.5 mm
Overall O/D	19.2 mm (nominal)

Electrical Specifications

Cable Impedance	50 ohm ± 1 ohm
Capacitance	23.1 pF/ft (75.8 pF/km)
DC Resistance, Inner Conductor	0.450 ohms/kft (1.480 ohms/km)
DC Resistance, Outer Conductor	0.580 ohms/kft (1.903 ohms/km)
DC Test Voltage	4000 V
Inductance	0.190 µH/m (0.058 µH/ft)
Insulation Resistance	100,000 Mohms/km
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 - 8800 MHz
Peak Power	40.0 kW
Pulse Reflection	0.5%
Velocity	88%

* MEGOLON is a trademark of Mexichem and AlphaGary Corporations



Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.149	0.045	40.00
1	0.211	0.064	36.11
1.5	0.259	0.079	29.46
2	0.299	0.091	25.50
10	0.672	0.205	11.35
20	0.954	0.291	7.99
30	1.172	0.357	6.51
50	1.521	0.463	5.02
88	2.031	0.619	3.76
100	2.169	0.661	3.52
108	2.256	0.688	3.38
150	2.673	0.815	2.85
174	2.887	0.880	2.64
200	3.103	0.946	2.46
300	3.835	1.169	1.99
400	4.462	1.360	1.71
450	4.749	1.447	1.61
500	5.021	1.530	1.52
512	5.085	1.550	1.50
600	5.533	1.686	1.38
700	6.009	1.831	1.27
800	6.456	1.968	1.18
824	6.560	1.999	1.16
894	6.855	2.089	1.11
960	7.124	2.171	1.07
1000	7.284	2.220	1.05
1250	8.226	2.507	0.93
1500	9.093	2.771	0.84
1700	9.744	2.970	0.78
1800	10.058	3.066	0.76
2000	10.666	3.251	0.72
2100	10.961	3.341	0.70
2200	11.251	3.429	0.68
2300	11.535	3.516	0.66
2500	12.090	3.685	0.63
2700	12.627	3.849	0.60
3000	13.407	4.086	0.57
3400	14.401	4.389	0.53
3700	15.118	4.608	0.50
4000	15.815	4.820	0.48
5000	18.010	5.489	0.42
6000	20.055	6.113	0.38
8000	23.826	7.262	0.32
8800	25.244	7.694	0.30

* Values typical, guaranteed within 5%.