

1/2 " Standard Flexible cable (LCF), Black PE Jacket



1 Product Structure

	Designation	Material	Diameter (mm)
1	Inner Conductor	Copper-Clad Aluminum wire	4.8 ± 0.05
2	Dielectric	Physical Foam Polyethylene	12.15 ± 0.2
3	Outer Conductor	Regular Corrugated Copper Tube	13.8 ± 0.15
4	Jacket	Black polyethylene, PE	15.7 ± 0.2

2 Electrical Specifications

Impedance	50 Ohm
Max Operating Frequency	6000 MHz
dc Resistance, Inner Conductor (Ω /km)	≤ 1.68
dc Resistance, Outer Conductor (Ω /km)	≤ 3.45
Velocity	86 %
Capacitance	76 pF/m
PIM	≤ -155 dBc @ 2 x 43dBm
RF Peak Power Rating	≥ 40 KW
RF Peak Voltage	≥ 1800 V
Dielectric Resistance	≥ 5000 MOhm / Km

3 Attenuation and Average Power (Maximum attenuation value shall be 105% of the nominal attenuation value)

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
200 MHz	3.12	2.44
450MHz	5.04	1.59
800 MHz	6.83	1.18
900 MHz	7.23	1.10
1000 MHz	7.71	1.05
1500 MHz	9.61	0.84
1800 MHz	10.63	0.76
2000MHz	11.28	0.72
2200 MHz	11.91	0.68
2500 MHz	12.80	0.63
3000 MHz	14.19	0.57

4 Return Loss (VSWR)

800~1000 MHz	≤ 1.13
1700-2300MHz	≤ 1.15
2500-3000MHz	≤ 1.15

5 Mechanical Specifications

Min Bend Radius, Multiple Bends	125 mm
Min Bend Radius, Single Bend	50 mm
Bending moment	3.8 Nm
Tensile strength	≥ 1020 N

6 Environment Specifications

Operating Temperature	-55°C ~ +85°C
Installation Temperature	-40°C ~ +60°C
Storage Temperature	-70°C ~ +85°C
Relative humidity	0 ~ 95%
RoHS	Compliant