Product Specification

1/2 in, Super flexible cable, Black PE Jacket

1 Product Structure

	Designation	Material	Diameter (mm)
1	Inner Conductor	Copper-Clad Aluminum wire	3.60±0.05
2	Dielectric	Physical Foam Polyethylene	Nom. 9.0
3	Outer Conductor	Helical corrugated copper tube	12.1±0.15
4	Jacket	Black polyethylene, PE	13.4±0.2

2 Electrical Specifications

Impedance	50±1.5 Ohm
Max Operating Frequency	10200 MHz
Inner conductor DC resistance（Ω/km）	2.97
Outer conductor DC resistance（Ω/km）	3.54
Velocity	83%
Capacitance	82 pF/m
Passive inter-modulation	≤ -155 dBc @ 2 x 20W (43dBm)
RF Peak Power Rating	≥ 16 KW
RF Peak Voltage	≥ 1400 V
Jacket Spark Test (RMS)	≥ 5000 V
Dielectric Resistance	≥ 5000 MOhm / Km

3 Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
450 MHz	7.59	1.38
800 MHz	10.4	1.01
900 MHz	11.2	0.95
1000 MHz	11.8	0.89
1800 MHz	16.6	0.64
2000 MHz	17.7	0.60
2200 MHz	18.27	0.57
2500 MHz	19.2	0.53
30000 MHz	22.4	0.46

*Max value shall be 110% of nominal attenuation value

Product Specification

4 VSWR

824~960 MHz	≤ 1.10
1710~3000 MHz	≤ 1.15

5 Mechanical Specifications

Min Bend Radius, Multiple Bends	55 mm
Min Bend Radius, Single Bend	17 mm
Bending moment	2.7 Nm
Tensile strength	≥ 650 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%

7 Banned and Restricted Substances

RoHS 2002/95/EC	Compliant by Exemption