



1/2" S RF 50 OHMS COAXIAL CABLE



Construction Specification

Item	Material	Diameter(mm)
1. Inner Conductor	Copper Clad Aluminum Wire	3.58±0.02
2. Dielectric	Physical Foam Polyethylene	9.0±0.20
3. Outer Conductor	Helical Copper Tube	12.10±0.20
4. Jacket	Black Polyethylene	13.40±0.30

Electrical Characteristics

Capacitance (pF/m)	81±2.0
Impedance (ohm)	50±1.0
Velocity (%)	81
Dielectric resistance (MΩ·km)	≥5000
Dielectric strength	2.5kv
Jacket Spark, Volts RMS	5.0kv
DC Resistance (Inner Conductor)(Ω/km)	2.85
DC Resistance (Outer Conductor) (Ω/km)	3.50

Mechanical and Environmental Characteristics

Bending radius once (mm)	25
Flexible application radius (mm)	32
Peak Power Rating	19kw
Maximum Operating Frequency (GHz)	10.2
Operating Temp. (°C)	-55°C~+85°C
Installation Temp.	-40°C~+60°C
Storage Temp	-55°C~+85°C

Typical Attenuation @ 20°C and Sea Level

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Frequency (MHz)	Attenuation(dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
100MHZ	3.35	894MHZ	10.75
200MHZ	4.70	960MHZ	11.30
300MHZ	5.90	1000MHZ	11.40
400MHZ	6.90	1700MHZ	15.50
450MHZ	7.35	1800MHZ	15.90
500MHZ	7.85	1900MHZ	16.50
600MHZ	8.65	2000MHZ	16.95
700MHZ	9.40	2200MHZ	17.90
800MHZ	9.95	2300MHZ	18.20
824MHZ	10.30	2500MHZ	19.25

Return Loss (dB)

800 MHz ~1000MHz	≤1.10
1700 MHz~2200 MHz	≤1.10
10 MHz ~3000MHz	≤1.18