



Air dielectric coaxial cable, corrugated copper tube for outer conductor and helical copper tube for inner conductor, air dielectric with PE support, 1-5/8 in, black PE jacket

General Specifications

Flexibility Standard Jacket Color Black

Performance Note Attenuation guaranteed within the tolerance $\pm 10\%$ Structure Note Dimension guaranteed within the tolerance $\pm 5\%$

Nominal Size 1-5/8 in

Material Specifications

Inner Conductor Helical Copper Tube

Dielectric Air Dielectric with PE Support
Outer Conductor Corrugated Copper Tube

Jacket Black PE
Diameter of Inner Conductor 18.50 mm
Diameter of Dielectric 39.70 mm
Diameter of Outer Conductor 46.50 mm
Diameter of Jacket 51.00 mm

Electrical Specifications

Impedance 50 ohms±1 ohm

Maximum Available Frequence 2.7 GHz **Cut-off Frequency** 3.1 GHz **Velocity Ratio** 93% **Peak Power** 270 kW Insulation Resistance 3000 MΩ·km DC Breakdown Voltage 5200 V **Nominal Capacitance** 71 pF/m Nominal Inductance 0.19 µH/m



Attenuations			
Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.05	0.02	270.0
1	0.06	0.02	198.0
1.6	0.08	0.02	156.0
3	0.11	0.03	114.0
6	0.15	0.05	81.0
10	0.20	0.06	62.0
20	0.28	0.09	44.0
30	0.35	0.11	27.9
100	0.65	0.2	15.2
200	0.90	0.27	10.7
500	1.46	0.45	6.7
800	1.87	0.57	5.2
1000	2.10	0.64	4.6
2000	3.10	0.94	3.2



Return Loss / VSWR

Frequency Band	VSWR	Return Loss (dB)	Tolerance
550-1600 KHz	1.10	26.4	5%
87-108 MHz	1.10	26.4	5%
1CH-12CH Specified Channel	1.15	23.1	5%
13CH-24CH Specified Channel	1.15	23.1	5%
25CH-68CH Specified Channel	1.15	23.1	5%

Mechanical Specifications

Bending Radius (Single)≥180 mmBending Radius (Repeated)≥550 mmNumber of Bending (Typical)≤15Tensile Strength3200N

Environmental Specifications

Installation Temperature $-20 \,^{\circ}\text{C}$ to $+55 \,^{\circ}\text{C}$ Operating Temperature $-40 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ Storage Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$

Regulatory Compliances

ISO 9001:2015 Compliant
ROHS Compliant
China RoHS Compliant
UK RoHS Compliant
REACH Compliant
EU/CE Compliant

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