



Air dielectric coaxial cable, corrugated copper tube for outer conductor and smooth copper tube for inner conductor, air dielectric with PE support, 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	5/8 in

Material Specifications

Inner Conductor	Smooth Copper Tube
Dielectric	Air Dielectric with PE Support
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE
Diameter of Inner Conductor	6.10 mm
Diameter of Dielectric	14.10 mm
Diameter of Outer Conductor	16.50 mm
Diameter of Jacket	19.00 mm

Electrical Specifications

Impedance	75 ohms ± 1 ohm
Maximum Available Frequency	4.6 GHz
Cut-off Frequency	8.5 GHz
Velocity Ratio	93%
Peak Power	38 kW
Insulation Resistance	3000 M Ω -km
DC Breakdown Voltage	1900 V
Nominal Capacitance	70 pF/m
Nominal Inductance	0.19 μ H/m

Attenuations

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.13	0.04	45.23
1	0.18	0.05	32.67
1.6	0.23	0.07	25.57
3	0.31	0.09	18.97
6	0.44	0.13	13.36
10	0.57	0.17	10.32
20	0.80	0.24	7.35
30	0.98	0.3	6.00
100	1.80	0.55	3.30
200	2.61	0.8	2.70
500	4.23	1.29	1.59
800	5.43	1.66	1.10
1000	6.13	1.87	0.94
2000	10.63	3.24	0.65

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	1.10	26.4	5%

Mechanical Specifications

Bending Radius (Single)	≥70 mm
Bending Radius (Repeated)	≥200 mm
Number of Bending (Typical)	≤15
Tensile Strength	2800N

Environmental Specifications

Installation Temperature	-20 °C to +55 °C
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +85 °C

Regulatory Compliances

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

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