



Flexible coaxial feeder cable, ring corrugated copper for outer conductor and copper-clad aluminum wire for inner conductor, 1/4 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	1/4 in

Material Specifications

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	Black PE
Diameter of Inner Conductor	2.60 mm
Diameter of Dielectric	6.80 mm
Diameter of Outer Conductor	8.40 mm
Diameter of Jacket	9.80 mm

Electrical Specifications

Impedance	50 ohms ± 1 ohm
Maximum Available Frequency	15.8 GHz
Cut-off Frequency	16 GHz
Velocity Ratio	86%
Peak Power	12.1 kW
Insulation Resistance	3000 M Ω -km
DC Breakdown Voltage	2200 V
Nominal Capacitance	77 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	0.28	0.09	12.10
1	0.39	0.12	12.10
1.5	0.48	0.15	12.10
2	0.56	0.17	12.10
10	1.25	0.38	5.80
20	1.78	0.54	4.08
30	2.19	0.67	3.32
50	2.84	0.87	2.56
88	3.79	1.16	1.92
100	4.05	1.23	1.79
108	4.21	1.28	1.72
150	4.99	1.52	1.45
174	5.39	1.64	1.35
200	5.80	1.77	1.25
300	7.17	2.19	1.01
400	8.34	2.54	0.87
450	8.88	2.71	0.85
500	9.39	2.86	0.77
512	9.51	2.90	0.76
600	10.41	3.17	0.70
700	11.24	3.43	0.64
800	12.17	3.71	0.62
824	12.30	3.75	0.59
900	13.12	4.00	0.58
960	13.35	4.07	0.54
1000	13.68	4.17	0.50
1250	15.41	4.70	0.47
1500	17.04	5.19	0.43
1700	18.37	5.60	0.41
1800	18.90	5.76	0.40
2000	20.03	6.11	0.37
2100	20.66	6.30	0.35
2200	21.19	6.46	0.35
2400	21.62	6.59	0.34
3000	25.25	7.70	0.30
4000	29.78	9.08	0.24
6000	37.71	11.49	0.19
8000	44.90	13.69	0.16

Return Loss / VSWR

Frequency Band	VSWR	Return Loss (dB)	Tolerance
0.8-1.0GHz	1.15	23.1	5%
1.7-2.2GHz	1.15	23.1	5%
2.2-2.7GHz	1.15	23.1	5%
3.3-3.8GHz	1.22	20.1	5%
4.8-5.0GHz	1.22	20.1	5%

Mechanical Specifications

Bending Radius (Single)	≥40 mm
Bending Radius (Repeated)	≥80 mm
Number of Bending (Typical)	≤15
Tensile Strength	910N

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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