



Flexible coaxial feeder cable, ring corrugated aluminum for outer conductor and smooth copper tube for inner conductor, 1-1/4 in, FRNC 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	1-1/4 in

Material Specifications

Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Aluminum Tube
Jacket	FRNC
Diameter of Inner Conductor	13.00 mm
Diameter of Dielectric	33.00 mm
Diameter of Outer Conductor	36.00 mm
Diameter of Jacket	38.60 mm

Electrical Specifications

Impedance	50 ohms ± 1 ohm
Maximum Available Frequency	3.3 GHz
Cut-off Frequency	3.7 GHz
Velocity Ratio	88%
Peak Power	200 kW
Insulation Resistance	3000 M Ω -km
DC Breakdown Voltage	10000 V
Nominal Capacitance	76 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	0.066	0.020	175.00
1	0.094	0.029	123.00
1.5	0.115	0.035	101.00
2	0.133	0.041	87.10
10	0.300	0.091	38.60
20	0.428	0.131	27.10
30	0.528	0.161	22.00
50	0.688	0.210	16.90
88	0.924	0.282	12.65
100	0.989	0.301	11.70
108	1.030	0.314	11.30
150	1.236	0.377	9.47
174	1.331	0.406	8.75
200	1.426	0.434	8.12
300	1.782	0.544	6.52
400	2.092	0.637	5.57
450	2.245	0.684	5.22
500	2.364	0.720	4.92
600	2.614	0.797	4.44
700	2.851	0.869	4.07
800	3.077	0.938	3.78
824	3.125	0.953	3.71
900	3.314	1.010	3.53
960	3.410	1.039	3.40
1000	3.493	1.064	3.32
1250	3.980	1.213	2.92
1500	4.432	1.351	2.62
1700	4.776	1.456	2.43
1800	5.074	1.547	2.38
2000	5.299	1.615	2.21
2100	5.418	1.651	2.14
2200	5.573	1.698	2.08
2400	6.000	1.829	1.95
3000	6.749	2.057	1.72
3300	8.352	2.545	1.62

Return Loss / VSWR

Frequency Band	VSWR	Return Loss (dB)	Tolerance
0.4-0.5GHz	1.15	23.1	5%
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%

Mechanical Specifications

Bending Radius (Single)	≥190 mm
Bending Radius (Repeated)	≥380 mm
Number of Bending (Typical)	≤15
Tensile Strength	2400N

Environmental Specifications

Installation Temperature	-20 °C to +55 °C
Operating Temperature	-20 °C to +85 °C
Storage Temperature	-25 °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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