



Flexible coaxial feeder cable, ring corrugated copper for outer conductor and helical copper tube for inner conductor, 2-1/4 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	2-1/4 in

Material Specifications

Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	Black PE
Diameter of Inner Conductor	20.50 mm
Diameter of Dielectric	49.70 mm
Diameter of Outer Conductor	55.00 mm
Diameter of Jacket	60.00 mm

Electrical Specifications

Impedance	50 ohms ± 1 ohm
Maximum Available Frequency	2.2 GHz
Cut-off Frequency	2.3 GHz
Velocity Ratio	88%
Peak Power	425 kW
Insulation Resistance	3000 M Ω -km
DC Breakdown Voltage	16000 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	0.037	0.011	321.00
1	0.051	0.016	227.00
1.5	0.063	0.019	185.00
2	0.073	0.022	160.00
10	0.167	0.051	70.30
20	0.240	0.073	49.20
30	0.296	0.090	39.80
50	0.386	0.118	30.40
88	0.524	0.160	22.50
100	0.563	0.172	21.00
108	0.598	0.182	20.00
150	0.742	0.226	16.20
174	0.759	0.231	14.40
200	0.850	0.259	11.40
300	1.079	0.329	9.70
400	1.238	0.377	9.06
450	1.376	0.419	8.69
500	1.406	0.429	8.52
512	1.535	0.468	8.40
600	1.683	0.513	7.60
700	1.822	0.555	6.95
800	1.851	0.564	6.45
824	1.950	0.594	6.03
900	2.079	0.634	5.76
960	2.109	0.643	5.72
1000	2.396	0.730	5.64
1250	2.693	0.821	4.91
1500	2.891	0.881	4.38
1700	3.020	0.920	4.05
1800	3.198	0.975	3.74
2000	3.426	1.044	3.50
2100	3.436	1.047	3.43
2200	3.465	1.056	3.32

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%

Mechanical Specifications

Bending Radius (Single)	≥290 mm
Bending Radius (Repeated)	≥560 mm
Number of Bending (Typical)	≤15
Tensile Strength	3500N

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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