



Low loss flexible coaxial feeder cable, ring corrugated copper for outer conductor and helical copper tube for inner conductor, 1-5/8 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	1-5/8 in

Material Specifications

Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	FRNC
Diameter of Inner Conductor	17.60 mm
Diameter of Dielectric	41.00 mm
Diameter of Outer Conductor	46.50 mm
Diameter of Jacket	50.30 mm

Electrical Specifications

Impedance	50 ohms ± 1 ohm
Maximum Available Frequency	3.8 GHz
Cut-off Frequency	4.0 GHz
Velocity Ratio	89%
Peak Power	200 kW
Insulation Resistance	3000 M Ω -km
DC Breakdown Voltage	15000 V
Nominal Capacitance	75 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	0.043	0.013	258.00
1	0.061	0.019	182.00
1.5	0.075	0.023	148.00
2	0.087	0.027	128.00
10	0.199	0.061	56.90
20	0.283	0.086	40.00
30	0.372	0.113	32.50
50	0.458	0.140	25.00
88	0.615	0.187	18.60
100	0.657	0.200	17.40
108	0.684	0.208	16.70
150	0.814	0.248	14.10
174	0.880	0.268	13.00
200	0.966	0.294	12.10
300	1.185	0.361	9.710
400	1.391	0.424	8.30
450	1.483	0.452	7.79
500	1.576	0.480	7.35
512	1.597	0.487	7.25
600	1.741	0.531	6.64
700	1.895	0.578	6.10
800	2.039	0.621	5.66
824	2.070	0.631	5.56
894	2.173	0.662	5.31
900	2.184	0.666	5.29
928	2.215	0.675	5.21
960	2.266	0.691	5.10
1000	2.318	0.707	4.99
1250	2.627	0.801	4.39
1500	2.925	0.892	3.95
1700	3.142	0.958	3.67
1800	3.255	0.992	3.55
2000	3.461	1.055	3.34
2100	3.564	1.086	3.24
2200	3.667	1.118	3.15
2400	3.852	1.174	2.99
2750	4.182	1.275	2.76

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%
2.2-2.5GHz	1.15	23.1	5%
3.3-3.8GHz	1.22	20.1	5%

Mechanical Specifications

Bending Radius (Single)	≥280 mm
Bending Radius (Repeated)	≥500 mm
Number of Bending (Typical)	≤15
Tensile Strength	3000N

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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