



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

## Material Specifications

Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Aluminum Tube
Jacket	Black PE
Diameter of Inner Conductor	17.30 mm
Diameter of Dielectric	41.80 mm
Diameter of Outer Conductor	46.50 mm
Diameter of Jacket	49.80 mm

## Electrical Specifications

Impedance	50 ohms $\pm 1$ ohm
Maximum Available Frequency	2.5 GHz
Cut-off Frequency	3.0 GHz
Velocity Ratio	88%
Peak Power	310 kW
Insulation Resistance	3000 M $\Omega$ -km
DC Breakdown Voltage	15000 V
Nominal Capacitance	76 pF/m
Nominal Inductance	0.19 $\mu$ H/m

## Attenuations

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.053	0.016	247.00
1	0.074	0.023	175.00
1.5	0.091	0.028	142.00
2	0.106	0.032	123.00
10	0.240	0.073	54.30
20	0.343	0.104	38.10
30	0.445	0.136	30.90
50	0.552	0.168	23.60
88	0.745	0.227	17.50
100	0.797	0.242	16.40
108	0.830	0.253	15.70
150	0.991	0.302	13.20
174	1.074	0.328	12.20
200	1.159	0.353	11.30
300	1.450	0.442	9.01
400	1.842	0.562	7.67
450	2.020	0.616	7.00
500	2.138	0.652	6.76
512	2.198	0.670	6.67
600	2.257	0.688	6.09
700	2.364	0.720	5.57
800	2.579	0.786	5.15
824	2.708	0.826	5.06
900	2.970	0.905	4.68
960	3.101	0.946	4.60
1000	3.256	0.992	4.52
1250	3.326	1.014	3.95
1500	3.826	1.166	3.54
1700	4.218	1.285	3.28
1800	4.396	1.339	3.08
2000	4.586	1.398	2.96
2300	4.895	1.492	2.72
2500	5.263	1.604	2.58

## 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%

## Mechanical Specifications

Bending Radius (Single)	≥260 mm
Bending Radius (Repeated)	≥490 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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