



Low loss flexible coaxial feeder cable, ring corrugated copper for outer conductor and smooth copper tube for inner conductor, 7/8 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	7/8 in

## Material Specifications

Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	FRNC
Diameter of Inner Conductor	9.45 mm
Diameter of Dielectric	23.00 mm
Diameter of Outer Conductor	25.40 mm
Diameter of Jacket	28.40 mm

## Electrical Specifications

Impedance	50 ohms $\pm 1$ ohm
Maximum Available Frequency	5.0 GHz
Cut-off Frequency	5.2 GHz
Velocity Ratio	90%
Peak Power	85 kW
Insulation Resistance	3000 M $\Omega$ -km
DC Breakdown Voltage	10000 V
Nominal Capacitance	74 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	0.078	0.024	85.0
1	0.110	0.034	85.0
1.5	0.135	0.041	77.1
2	0.157	0.048	66.8
10	0.353	0.108	29.7
20	0.501	0.153	20.9
30	0.616	0.188	17.0
50	0.801	0.244	13.1
88	1.07	0.326	9.75
100	1.15	0.351	9.12
108	1.19	0.363	8.76
150	1.42	0.433	7.38
174	1.53	0.466	6.83
200	1.65	0.503	6.35
300	2.04	0.622	5.12
400	2.38	0.725	4.39
450	2.54	0.774	4.12
500	2.69	0.820	3.89
512	2.72	0.829	3.84
600	2.97	0.905	3.52
700	3.23	0.985	3.24
800	3.47	1.058	3.01
824	3.53	1.076	2.96
900	3.69	1.125	2.83
960	3.71	1.131	2.82
1000	3.76	1.146	2.78
1250	3.84	1.170	2.72
1500	3.93	1.198	2.66
1700	4.45	1.356	2.35
1800	4.94	1.506	2.12
2000	5.30	1.615	1.97
2100	5.48	1.670	1.91
2200	5.82	1.774	1.80
2400	5.99	1.826	1.75
3000	6.15	1.875	1.70
3400	6.47	1.972	1.62
4000	7.38	2.249	1.42
5000	8.09	2.466	1.29

## 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)	≥120 mm
Bending Radius (Repeated)	≥250 mm
Number of Bending (Typical)	≤15
Tensile Strength	1700N

## 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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