



Flexible coaxial feeder cable, ring corrugated copper for outer conductor and copper-clad aluminum wire for inner conductor, 3/8 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	3/8 in

Material Specifications

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	FRNC
Diameter of Inner Conductor	3.10 mm
Diameter of Dielectric	7.80 mm
Diameter of Outer Conductor	9.50 mm
Diameter of Jacket	11.1 mm

Electrical Specifications

Impedance	50 ohms ± 1 ohm
Maximum Available Frequency	13.5 GHz
Cut-off Frequency	15.0 GHz
Velocity Ratio	88%
Peak Power	15.6 kW
Insulation Resistance	3000 M Ω -km
DC Breakdown Voltage	2500 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	0.23	0.07	15.60
1	0.33	0.10	15.60
1.5	0.41	0.12	15.60
2	0.47	0.14	15.60
10	1.05	0.32	7.23
20	1.49	0.45	5.09
30	1.84	0.56	4.14
50	2.38	0.73	3.19
88	3.17	0.97	2.39
100	3.39	1.03	2.24
108	3.53	1.08	2.15
150	4.18	1.27	1.81
174	4.52	1.38	1.68
200	4.86	1.48	1.56
300	6.01	1.83	1.26
400	6.99	2.13	1.08
450	7.44	2.27	1.02
500	7.87	2.40	0.96
512	7.97	2.43	0.95
600	8.68	2.65	0.87
700	9.43	2.87	0.80
800	10.10	3.08	0.75
824	10.30	3.14	0.74
900	10.99	3.35	0.69
960	11.19	3.41	0.68
1000	11.49	3.50	0.66
1250	12.97	3.95	0.59
1500	14.26	4.35	0.53
1700	15.35	4.68	0.49
1800	15.95	4.86	0.48
2000	16.84	5.13	0.45
2100	17.23	5.25	0.44
2200	17.73	5.40	0.43
2400	19.31	5.89	0.41
3000	21.19	6.46	0.36
4000	25.05	7.64	0.30
6000	31.79	9.69	0.24
8000	37.83	11.53	0.20

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)	≥30 mm
Bending Radius (Repeated)	≥60 mm
Number of Bending (Typical)	≤15
Tensile Strength	1100N

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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