



Super-flexible coaxial feeder cable, helical corrugated copper for outer conductor and copper-clad aluminum wire for inner conductor, 3/8 in, FRNC jacket

## General Specifications

Flexibility	Super-flexible
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	Helical Corrugated Copper Tube
Jacket	FRNC
Diameter of Inner Conductor	2.60 mm
Diameter of Dielectric	6.70 mm
Diameter of Outer Conductor	9.10 mm
Diameter of Jacket	10.20 mm

## Electrical Specifications

Impedance	50 ohms $\pm 1$ ohm
Maximum Available Frequency	15 GHz
Cut-off Frequency	17 GHz
Velocity Ratio	82%
Peak Power	7.2 kW
Insulation Resistance	5000 M $\Omega$ -km
DC Breakdown Voltage	2300 V
Nominal Capacitance	82 pF/m
Nominal Inductance	0.195 $\mu$ H/m

## Attenuations

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.27	0.08	13.20
1	0.38	0.12	13.20
1.5	0.46	0.14	13.20
2	0.54	0.16	6.92
10	1.21	0.37	4.87
20	1.71	0.52	3.97
30	2.11	0.64	3.06
50	2.73	0.83	2.14
88	3.65	1.11	1.98
100	4.21	1.28	1.87
108	4.46	1.36	1.76
150	4.81	1.47	1.61
174	5.20	1.58	1.49
200	5.59	1.70	1.21
300	6.92	2.11	1.04
400	8.06	2.46	0.98
450	9.40	2.87	0.86
500	10.00	3.05	0.85
512	10.40	3.17	0.83
600	10.89	3.32	0.77
700	11.88	3.62	0.72
800	12.87	3.92	0.65
824	13.86	4.22	0.59
900	14.16	4.32	0.51
960	14.36	4.38	0.48
1000	14.95	4.56	0.47
1250	16.53	5.04	0.45
1500	17.72	5.40	0.42
1700	21.58	6.58	0.38
1800	22.18	6.76	0.35
2000	23.27	7.09	0.35
2100	25.35	7.73	0.32
2200	27.23	8.30	0.31
2400	28.91	8.81	0.28
3000	36.83	11.23	0.22
4000	43.86	13.37	0.19
6000	50.30	15.33	0.16
8000	44.90	13.69	0.16

## 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)	≥15 mm
Bending Radius (Repeated)	≥30 mm
Number of Bending (Typical)	≤15
Tensile Strength	950N

## 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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