



Flexible coaxial feeder cable, ring corrugated copper for outer conductor and smooth copper tube for inner conductor, 1-1/4 in, LSZH 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	1-1/4 in

## Material Specifications

Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	LSZH
Diameter of Inner Conductor	13.10 mm
Diameter of Dielectric	32.60 mm
Diameter of Outer Conductor	35.80 mm
Diameter of Jacket	38.80 mm

## Electrical Specifications

Impedance	50 ohms $\pm 1$ ohm
Maximum Available Frequency	3.3 GHz
Cut-off Frequency	3.7 GHz
Velocity Ratio	88%
Peak Power	200 kW
Insulation Resistance	3000 M $\Omega$ -km
DC Breakdown Voltage	10000 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	0.055	0.017	175.00
1	0.078	0.024	123.00
1.5	0.096	0.029	101.00
2	0.111	0.034	87.10
10	0.250	0.076	38.60
20	0.357	0.109	27.10
30	0.440	0.134	22.00
50	0.573	0.175	16.90
88	0.770	0.235	12.65
100	0.824	0.251	11.70
108	0.858	0.262	11.30
150	1.030	0.314	9.47
174	1.109	0.338	8.75
200	1.188	0.362	8.12
300	1.485	0.453	6.52
400	1.743	0.531	5.57
450	1.871	0.570	5.22
500	1.970	0.600	4.92
600	2.178	0.664	4.44
700	2.376	0.724	4.07
800	2.564	0.782	3.78
824	2.604	0.794	3.71
900	2.762	0.842	3.53
960	2.842	0.866	3.40
1000	2.911	0.887	3.32
1250	3.317	1.011	2.92
1500	3.693	1.126	2.62
1700	3.980	1.213	2.43
1800	4.228	1.289	2.38
2000	4.416	1.346	2.21
2100	4.515	1.376	2.14
2200	4.644	1.415	2.08
2400	5.000	1.524	1.95
3000	5.624	1.714	1.72
3300	6.960	2.121	1.62

## 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%
2.2-2.7GHz	1.15	23.1	5%

## Mechanical Specifications

Bending Radius (Single)	≥200 mm
Bending Radius (Repeated)	≥400 mm
Number of Bending (Typical)	≤15
Tensile Strength	2500N

## 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

In the effort to improve our products, we reserve the right to make changes judged to be necessary. While the information has been carefully compiled to the best of our knowledge, but nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. The information contained in this document is subject to change without notice.