



Flexible coaxial feeder cable, ring corrugated copper for outer conductor and helical copper tube for inner conductor, 3 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	3 in

### Material Specifications

Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper Tube
Jacket	LSZH
Diameter of Inner Conductor	26.0 mm
Diameter of Dielectric	65.0 mm
Diameter of Outer Conductor	73.0 mm
Diameter of Jacket	79.0 mm

### Electrical Specifications

Impedance	50 ohms $\pm 1$ ohm
Maximum Available Frequency	1.6 GHz
Cut-off Frequency	1.7 GHz
Velocity Ratio	88%
Peak Power	600 kW
Insulation Resistance	3000 M $\Omega$ -km
DC Breakdown Voltage	18000 V
Nominal Capacitance	77 pF/m
Nominal Inductance	0.19 $\mu$ H/m

## Attenuations

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
100	0.24	0.07	52.40
150	0.57	0.17	22.63
300	0.85	0.26	15.56
450	1.08	0.33	12.59
800	1.55	0.47	9.01
900	1.67	0.51	8.55
1500	2.34	0.71	6.38

## Return Loss / VSWR

Frequency Band	VSWR	Return Loss (dB)	Tolerance
20-200MHz	1.15	23.1	5%
0.4-0.5GHz	1.15	23.1	5%
0.8-1.6GHz	1.17	22.1	5%

## Mechanical Specifications

Bending Radius (Single)	≥400 mm
Bending Radius (Repeated)	≥800 mm
Number of Bending (Typical)	≤15
Tensile Strength	4000N

## 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

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