

**50 Ohm Coaxial Corrugated Copper Cable 1-1/4 Inch
Standard Low Loss**
Electrical Specifications

Impedance	50 ohm
Operating Frequency	DC – 4.9 GHz
Max VSWR	1.15 for DC – 4.0 GHz
Velocity	89%
Pulse Reflection	0.50%
RF Peak Voltage	4.1 kV
Peak Power	200 kW
Max. Voltage for Jacket Spark Test	10 kV
Capacitance	75 pf/m
Inductance	0.184 uH/m
Insulation Resistance	5000 M ohm
DC Resistance Inner Conductor	0.71 ohm/km @ 6 kV
DC Resistance Outer Conductor	0.59 ohm/km @ 6 kV
Attenuation	See table below:

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	0.87	11.70
200	1.20	8.12
300	1.50	6.52
450	1.87	5.22
800	2.59	3.78
900	2.77	3.53
1000	2.94	3.32
1500	3.73	2.62
1800	4.16	2.35
2000	4.43	2.21
2200	4.69	2.05
2500	5.08	1.92
3000	5.68	1.72

Mechanical Specifications

Min Bending Radius (Multiple Bends)	380 mm
Maximum Times Bending	20
Min Bending Radius (Single Bend)	200 mm
Bending Moment	45 N-m
Flat Plate Crush Pressure	2.1 Kg/mm
Tensile Strength	3000 N
Recommended Clamp Spacing	1.0 m

Mechanical Dimensions & Weight

Inner Conductor OD	13.01 mm
Diameter over Dielectric Material	33.80 mm
Outer Conductor OD	35.82 mm
Diameter over Jacket	39.40 mm
Unit Weight	1.18 kg/m

Material Specifications

Inner Conductor	Normal Copper Tube
Dielectric	Foam PE
Color of Dielectric	White
Outer Conductor	Corrugate Copper Tube
Jacket Material	PE, (UL1518-1990)
Jacket Color	Black

Environmental Conditions

Storage Temperature	from -70 °C to 80 °C
Operating Temperature	from -55 °C to 80 °C
Installation/Cutting/Re-packaging Temp	from -40 °C to 60 °C

Package Information

Lengths per Reel (meter)	250 / 350 / 500
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