

**50 Ohm Coaxial Corrugated Copper Cable 1/2 Inch  
Standard Low Loss Lower Smoke, Halogen-Free**
**Electrical Specifications**

Impedance	50 ohm
Operating Frequency	DC - 5GHz
VSWR	1.10 for 800 - 2200MHz
	1.15 for DC - 5GHz
Velocity	88%
Pulse Reflection	0.50%
RF Peak Voltage	0.50 kV
Peak Power	40 kV
Max. Voltage for Jacket Spark Test	8kV
Capacitance	76 pf/m
Inductance	0.19 uH/m
DC Resistance Inner Conductor	1.58 ohm @ 4 kV
DC Resistance Outer Conductor	1.90 ohm @ 4 kV
Insulation Resistance	5000 M ohm

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	2.15	3.94
200	3.08	2.75
300	3.83	1.97
450	4.70	1.80
800	6.35	1.33
900	6.75	1.25
1000	7.20	1.18
1500	9.05	0.95
1800	9.90	0.86
2000	10.50	0.81
2200	11.10	0.77
2500	11.95	0.73
3000	13.20	0.65

**Mechanical Specifications**

Min Bending Radius for Multiple Bends	125 mm
Maximum Times of Bending	50
Min Bending Radius for Single Bend	50 mm
Bending Moment	5 N-m
Flat Plate Crush Pressure	2.0 kg/mm
Tensile Strength	1100 N
Recommended Clamp Spacing	0.6 m

**Mechanical Dimensions & Weight**

Inner Conductor OD	4.83 mm
Diameter over Dielectric Material	12.85 mm
Outer Conductor OD	13.85 mm
Diameter over Jacket	15.95 mm
Unit Weight	0.23 kg/m

**Material Specifications**

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Foam PE
Color of Dielectric	White
Outer Conductor	Corrugated 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)	300 / 500 / 800
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