

**50 Ohm Coaxial Corrugated Copper Cable 7/8 Inch
Standard Low Loss**
Electrical Specifications

Impedance	50 ohm
Operating Frequency	DC - 5 GHz
Max VSWR	1.15 for DC - 5 GHz
Velocity	89%
Pulse Reflection	0.50%
RF Peak Voltage	2.78 kV
Peak Power	91 kW
Max Voltage for Jacket Spark Test	8 kV
Capacitance	75 pf/m
Inductance	0.185 uH/m
Insulation Resistance	10,000 M ohm
DC Resistance Inner Conductor	1.03 ohm/km @ 5 kV
DC Resistance Outer Conductor	1.05 ohm/km @ 5 kV
Attenuation	See table below:

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	1.13	7.57
200	1.61	5.28
300	1.97	4.27
450	2.45	3.44
800	3.40	2.53
900	3.62	2.38
1000	3.85	2.24
1500	4.86	1.79
1800	5.42	1.61
2000	5.73	1.52
2200	6.10	1.44
2500	6.27	1.34
3000	7.09	1.21

Mechanical Specifications

Min Bending Radius (Multiple Bends)	253 mm
Maximum Times of Bending	40
Minimum Bending (Single Bend)	125 mm
Bending Moment	15 N-m
Flat Plate Crush Pressure	1.4 kg/mm
Tensile Strength	1420 N
Recommended Clamp Spacing	0.8 m

Mechanical Dimensions & Weight

Inner Conductor OD	9.40 mm
Diameter over Dielectric Material	23.00 mm
Outer Conductor OD	25.40 mm
Diameter over Jacket	27.90 mm
Unit Weight	0.50 kg/m

Material Specifications

Inner Conductor	Normal Copper Tube
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 -30 °C to 80 °C
Operating Temperature	from -30 °C to 80 °C
Installation/Cutting/Re-packaging Temp	from -25 °C to 60 °C

Package Information

Lengths per Reel (meter)	250 / 350 / 500
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