

**50 Ohm Coaxial Corrugated Copper Cable 7/8 Inch  
Super Flexible**
**Electrical Specifications**

Impedance	50 ohm
Operating Frequency	DC – 4.9 GHz
Max VSWR	1.15 for DC – 4.9 GHz
Velocity	88%
Pulse Reflection	0.50%
RF Peak Voltage	2.68 kV
Peak Power	81 kW
Max. Voltage for Jacket Spark Test	8 kV
Capacitance	76 pf/m
Inductance	0.197 uH/m
Insulation Resistance	5000 M ohm
DC Resistance Inner Conductor	2.69 ohm/km @ 3 kV
DC Resistance Outer Conductor	1.18 ohm/km @ 3 kV
Attenuation	See table below:

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	1.30	6.62
200	1.87	4.60
300	2.32	3.72
450	2.85	2.99
800	3.90	2.19
900	4.15	2.06
1000	4.42	1.93
1500	5.53	1.54
1800	6.12	1.39
2000	6.52	1.31
2200	6.90	1.24
2500	7.65	1.16
3000	8.25	1.04

**Mechanical Specifications**

Min Bending Radius (Multiple Bends)	125 mm
Maximum Times Bending	40
Min Bending Radius (Single Bend)	85 mm
Bending Moment	14 N-m
Flat Plate Crush Pressure	1.3 kg/mm
Tensile Strength	980 N
Recommended Clamp Spacing	0.8 m

**Mechanical Dimensions & Weight**

Inner Conductor OD	9.36 mm
Diameter over Dielectric Material	23.42 mm
Outer Conductor OD	24.89 mm
Diameter over Jacket	27.45 mm
Unit Weight	0.412 kg/m

**Material Specifications**

Inner Conductor	Threaded 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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