

**50 Ohm Coaxial Corrugated Copper Cable 1/2 Inch
Super Flexible**
Electrical Specifications

Impedance	50 ohm
Operating Frequency	DC - 5 GHz
Max VSWR	1.15 for DC - 5 GHz
Velocity	83%
Pulse Reflection	0.50%
RF Peak Voltage	1.39 kV
Peak Power	19.5 kW
Max Voltage for Jacket Spark Test	5 kV
Capacitance	82 pf/m
Inductance	0.195 uH/m
DC Resistance Inner Conductor	2.85 ohm/km @ 3 kV
DC Resistance Outer Conductor	3.55 ohm/km @ 3 kV
Insulation Resistance	5000M ohm
Attenuation	See table below:

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	3.22	3.03
200	4.65	2.11
300	6.09	1.72
450	7.20	1.37
800	9.86	1.00
900	10.56	0.94
1000	11.15	0.88
1500	13.80	0.70
1800	15.55	0.63
2000	16.40	0.59
2200	17.35	0.56
2500	18.50	0.52
3000	20.90	0.48

Mechanical Specifications

Min Bending Radius (Multiple Bends)	30 mm
Maximum Times of Bending	80
Minimum Bending (Single Bend)	25 mm
Bending Moment	2.55 N-m
Flat Plate Crush Pressure	1.8 kg/mm
Tensile Strength	690 N
Recommended Clamp Spacing	0.3 m

Mechanical Dimensions & Weight

Inner Conductor OD	3.60 mm
Diameter over Dielectric Material	8.72 mm
Outer Conductor OD	12.10 mm
Diameter over Jacket	13.45 mm
Unit Weight	0.215 kg/m

Material Specifications

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Foam PE
Color of Dielectric	White
Outer Conductor	Threaded 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)	200 / 500 / 800
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