1/2 aluminum coaxial cable PE jacket

High Performance RF Coaxial Cable used for Transmission Lines. Competitively designed for simple installation in the toughest conditions.

Construction Materials

Inner Conductor	Copper-Cald Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Aluminum Tube
Jacket	Black PE or Low Smoke free Fire Retardent

Physical Dimensions

Inner Conductor Diameter	4.80 mm
Dielectric Diameter	12.30 mm
Outer Conductor Diameter	13.90 mm
Diameter Over Jacket	15.70 mm

Mechanical Specifications

Minimum Bending Radius	
Single Bending	50 mm
Repeated Bending	125 mm
Minimum Number of Bends	15
Tensile Strength	1000 N

Environmental Specifications

Storage Temperature	-55°C - +85°C
Installation Temperature	-40°C - +60°C
Operation Temperature	-55°C - +85°C

Electrical Specifications

Capacitance	76.0pF/m (23.2pF/ft)
Impedance	50 + 1 â„¦
Velocity	88%
RF Peak Voltage	1.60 kV
Peak Power Rating	40 kW
Cut-off Frequency	8.8 GHz
Shielding Effectiveness>10MHz	> 120 dB
Insulation Resistance	5000 Mâ„¦.km
VSWR	
0.8 - 1.0 GHz	< 1.10
1.7 - 2.4 GHz	< 1.10

Performance

Frequency MHz	Attenuation dB/100m	Attenuation dB/100ft	Average Power Rating (kW)
100	2.40	0.73	3.94
200	3.45	1.05	2.75
450	5.25	1.60	1.80
800	7.15	2.18	1.33
900	7.65	2.33	1.25
1000	8.10	2.47	1.18
1500	10.10	3.08	0.95
1800	11.15	3.40	0.86
2000	11.58	3.61	0.81
2200	12.50	3.81	0.77
2400	13.05	3.98	0.75
2500	13.40	4.08	0.73
3000	14.80	4.51	0.65

Standard Conditions

For Attenuation: VSWR 1.0, Cable Temperature 20 °C (68 °F)

For Average Power: VSWR 1.0, Ambient Temperature 40 °C (104 °F)

Certification

 Inner Conductor Temperature 100 °C (212 °F). No solar loading

CE Approved

UL Approved