

7/8 "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	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Aluminum Tube
Jacket	Black PE or Low Smoke free Fire Retardant

Physical Dimensions

Inner Conductor Diameter	9.00 mm
Dielectric Diameter	22.30 mm
Outer Conductor Diameter	24.90 mm
Diameter Over Jacket	27.50 mm

Mechanical Specifications

Minimum Bending Radius	
Single Bending	130 mm
Repeated Bending	250 mm
Minimum Number of Bends	15
Tensile Strength	1100 N

Environmental Specifications

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

Electrical Specifications

Capacitance	75.0pF/m (22.9pF/ft)
Impedance	50 + 1 j
Velocity	89%
RF Peak Voltage	3.00 kV
Peak Power Rating	91 kW
Cut-off Frequency	5.20 GHz
Shielding Effectiveness>10MHz	> 120 dB
Insulation Resistance	5000 M Ω .km
VSWR	
0.8 - 1.0 GHz	< 1.13
1.7 - 2.4 GHz	< 1.13

Performance

Frequency MHz	Attenuation dB/100m	Attenuation dB/100ft	Average Power Rating (kW)
100	1.25	0.38	6.50
200	1.80	0.55	4.50
450	2.77	0.84	3.00
800	3.83	1.17	2.20
900	4.08	1.24	2.10
1000	4.30	1.31	2.00
1500	5.45	1.66	1.70
1800	6.05	1.84	1.60
2000	6.45	1.97	1.50
2200	6.85	2.09	1.40
2400	7.15	2.18	1.30
2500	7.35	2.24	1.20
3000	8.20	2.50	1.10

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

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