

## Foam Coaxial Cable, 7/8 in Al, Black PE Jacket



### 1 Product Structure

	Designation	Material	Diameter (mm)
1	Inner Conductor	Copper Tube	9.30
2	Dielectric	Physical Foam Polyethylene	Nom. 22.7
3	Outer Conductor	Regular Corrugated Aluminum Tube	25.2
4	Jacket	Black PE	27.7

### 2 Electrical Specifications

Impedance	50 ohm
Max Operating Frequency	5000 MHz
Velocity	88 %
Capacitance	76 pF/m
Passive inter-modulation	≤ -155 dBc @ 2 x 20W (43dBm)
RF Peak Power Rating	≥ 91 KW
RF Peak Voltage	≥ 6000 V
Jacket Spark Test (RMS)	≥ 8000 V
Dielectric Resistance	≥ 5000 Mohm / Km

### 3 Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
450 MHz	2.71	2.86
824 MHz	3.74	2.07
960 MHz	4.06	1.91
1000 MHz	4.15	1.87
1800 MHz	5.73	1.35
2000 MHz	6.08	1.27
2200 MHz	6.41	1.21
2500 MHz	6.89	1.12
2700 MHz	7.20	1.09

\*Max value shall be 110% of nominal attenuation value

## 4 Return Loss (VSWR)

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824~960 MHz	$\leq -24.3$ (1.13)
1710~2170 MHz	$\leq -24.3$ (1.13)

## 5 Mechanical Specifications

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Min Bend Radius, Multiple Bends	250 mm
Min Bend Radius, Single Bend	125 mm
Bending moment	19.0 Nm
Tensile strength	$\geq 1450$ N

## 6 Environment Specifications

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Operating Temperature	-55°C ~ +85°C
Installation Temperature	-40°C ~ +60°C
Storage Temperature	-70°C ~ +85°C
Relative humidity	0 ~ 95%

## 7 Banned and Restricted Substances

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RoHS 2002/95/EC	Compliant by Exemption
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