

TXM SPF-1/2C Super flexible Foam Coaxial Cable, 1/2 in, Black PE Jacket

1) Product Structure

	Designation	Material	Diameter (mm)
1	Inner Conductor	Copper-Clad Aluminum wire	3.58
2	Dielectric	Physical Foam Polyethylene	Nom. 9.0
3	Outer Conductor	Helical corrugated copper tube	12.20
4	Jacket	Black polyethylene, PE	13.60

2) Electrical Specifications

Impedance	50 Ohm
Max Operating Frequency	10200 MHz
Velocity	83%
Capacitance	83 pF/m
Passive inter-modulation	≤ -155 dBc @ 2 x 20W (43dBm)
RF Peak Power Rating	≥ 16 KW
RF Peak Voltage	≥ 2500 V
Jacket Spark Test (RMS)	≥ 5000 V
Dielectric Resistance	≥ 5000 MOhm / Km

3) Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
450 MHz	7.59	1.38
824 MHz	10.6	1.00
960 MHz	11.6	0.92
1000 MHz	11.8	0.89
1800 MHz	16.6	0.64
2000 MHz	17.7	0.60
2200 MHz	18.7	0.57
2500 MHz	20.1	0.53
2700 MHz	21.1	0.50

*Max value shall be 110% of nominal attenuation value

4) Return Loss (VSWR)

824~960 MHz	≤ -24.3 (1.13)
1710~2170 MHz	≤ -24.3 (1.13)

5) Mechanical Specifications

Min Bend Radius, Multiple Bends	35 mm
Min Bend Radius, Single Bend	25 mm
Bending moment	2.7 Nm
Tensile strength	≥ 650 N

6) Environment Specifications

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

RoHS 2002/95/EC	Compliant by Exemption
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