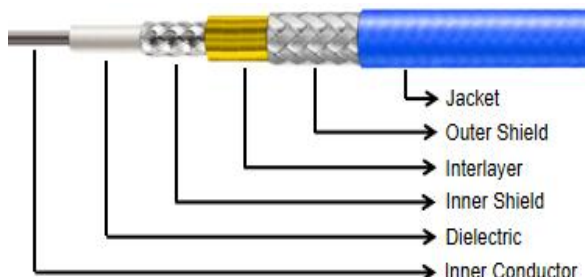


FS1500B

6GHz, 50 Ohm, Φ 14.7mm, FEP Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	4.40	Silver plated Copper
Dielectric	12.50	Low Density PTFE
Inner Shield	12.74	Silver Plated Copper Strip
Interlayer	12.85	High-Temp Aluminum Foil
Outer Shield	13.60	Silver Plated Copper Braid
Jacket	14.70	FEP

Electrical Specifications:

Operating Freq.: 6 GHz

Cut-off Freq.: 8 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 4000 V DC

Passive Intermodulation (PIM): -155dBc

Mechanical Specifications:

Static Bending Radius: 74 mm

Dynamic Bending Radius: 147 mm

Weight: 432 g/m

Environmental Specifications:

Temperature: -55~+200 $^{\circ}$ C

Typical Attenuation(dB/100m) and Power handling (W)

Freq.(GHz)	0.1	0.3	0.5	0.8	1	2	3	5	6
Attenuation ¹	3.1	5.4	7.1	9.1	10.2	14.8	18.4	24.5	27.1
Avg. Power ²	14724	8384	6433	5031	4472	3088	2477	1866	1684
K1: 0.304208, K2: 0.000591									

1: Typical value@+25 $^{\circ}$ C, VSWR=1.0;

2: Typical value@+40 $^{\circ}$ C, atmospheric pressure;

3: Typical Cable Attenuation Calculation, Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$;

4: Typical Connector Attenuation Calculation, Formula: $0.03 \cdot \sqrt{F(\text{GHz})}$.

Cable Assemblies Naming Rule:

PN: Cable-Max. Freq.-Conn.1-Conn.2-Length(m)

Eg.: FS1500B-6-NM-NF-1 means FS1500B cable, DC-6GHz, N(m)-N(f), 1m.