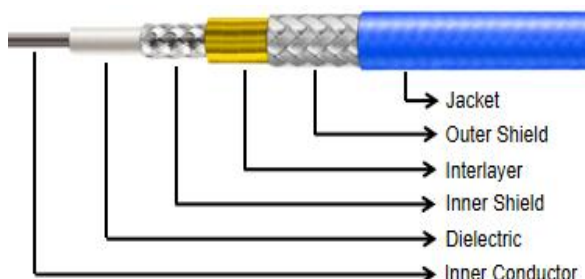


FS1000B

10GHz, 50 Ohm, Φ 9.3mm, FEP Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	2.44	Silver plated Copper
Dielectric	7.24	Low Density PTFE
Inner Shield	7.48	Silver Plated Copper Strip
Interlayer	7.61	High-Temp Aluminum Foil
Outer Shield	8.19	Silver Plated Copper Braid
Jacket	9.30	FEP

Electrical Specifications:

Operating Freq.: 10 GHz

Cut-off Freq.: 15 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 3000 V DC

Passive Intermodulation (PIM): -155dBc

Mechanical Specifications:

Static Bending Radius: 47 mm

Dynamic Bending Radius: 93 mm

Weight: 193 g/m

Environmental Specifications:

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

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

Freq.(GHz)	1	2	3	4	5	6	7	8	10
Attenuation ¹	14.7	21.1	26.2	30.6	34.5	38.2	41.5	44.7	50.6
Avg. Power ²	2485	1728	1393	1194	1058	958	880	818	722
K1: 0.446080, K2: 0.000600									

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-Freq.-Conn.1-Conn.2-Length(m)

Eg.: FS1000B-10-NM-NF-1 means FS1000B cable, DC-10GHz, N(m)-N(f), 1m.

Add "R" for right-angle or "H" for bulkhead after the connector code (e.g., NMR, NFH)

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material
SMA (S)	10GHz	1.25:1	Passivated Stainless Steel
N (N)	10GHz	1.25:1	