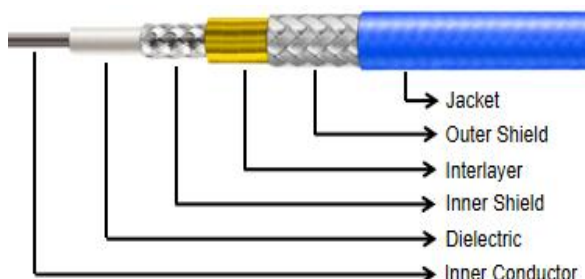


FS520B

18GHz, 50 Ohm, Φ 5.2mm, FEP Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	1.29	Silver plated Copper
Dielectric	3.85	Low Density PTFE
Inner Shield	4.05	Silver Plated Copper Strip
Interlayer	4.20	High-Temp Aluminum Foil
Outer Shield	4.80	Silver Plated Copper Braid
Jacket	5.20	FEP

Electrical Specifications:

Operating Freq.: 18 GHz

Cut-off Freq.: 28 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 2000 V DC

Passive Intermodulation (PIM): -155dBc

Mechanical Specifications:

Static Bending Radius: 26 mm

Dynamic Bending Radius: 52 mm

Weight: 67 g/m

Environmental Specifications:

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

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

Freq.(GHz)	1	2	3	6	8	10	12.4	16	18
Attenuation ¹	27.7	39.5	48.7	69.9	81.3	91.5	102.7	117.8	125.5
Avg. Power ²	750	526	426	297	255	227	202	176	165
K1: 0.856234, K2: 0.000591									

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

2: Typical value@+40 $^{\circ}$ C, VSWR=1.0, Sea Level;

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.: FS520B-18-SM-SF-1 means FS520B cable, DC-18GHz, SMA(m)-SMA(f), 1m.

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

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material
SMA (S)	18GHz	1.25:1	Passivated Stainless Steel