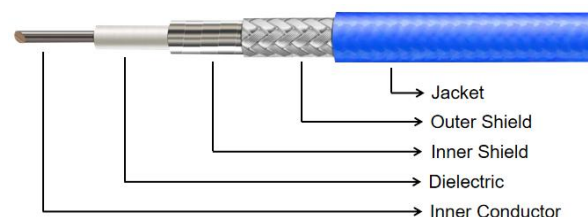


FS160C

67GHz, 50 Ohm, Φ 1.60mm, FEP Jacket, Economical Flexible Cable, Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	0.30	Silver plated Copper
Dielectric	0.97	PTFE
Inner Shield	1.12	Silver Plated Copper Strip
Outer Shield	1.32	Silver Plated Copper Braid
Jacket	1.60	FEP

Electrical Specifications:

Operating Freq.: 67 GHz

Cut-off Freq.:110 GHz

Impedance: 50 Ω

Velocity of Propagation: 70%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 500 V DC

Mechanical Specifications:

Static Bending Radius: 8 mm

Dynamic Bending Radius: 15 mm

Weight: 6 g/m

Environmental Specifications:

Temperature: -55~+125 $^{\circ}$ C

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

Freq.(GHz)	0.5	1	3	6	10	16	18	26.5	40	67
Attenuation ¹	95.4	135.2	235.1	334.0	433.0	550.49	584.7	713.3	882.46	1154.5
Avg. Power ²	100	71	41	29	22	17	16	13	11	8
K1: 4.248276, K2: 0.000820										

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.: FS160C-67-VM-VF-1 means FS160C cable, DC-67GHz, 1.85mm(m)-1.85mm(f), 1m.

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

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material*
1.85mm (V)	67GHz	1.35:1	Passivated Stainless Steel
2.4mm (2)	50GHz	1.30:1	Passivated Stainless Steel
2.92mm (K)	40GHz	1.30:1	Passivated Stainless Steel
SSMP (M)	40GHz	1.30:1	Beryllium Copper
SMP (P)	40GHz	1.30:1	Beryllium Copper
3.5mm (3)	33GHz	1.30:1	Passivated Stainless Steel
SMA (S)	26.5GHz	1.25:1	Beryllium Copper

*Connector material is subject to availability; please confirm material when placing your order.