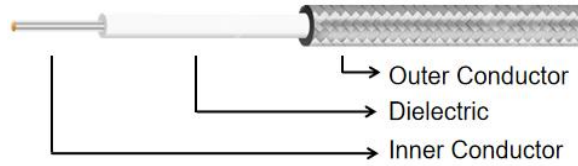


FS047SF

40GHz, 50 Ohm, Φ 1.19mm, Tinned Copper Braid, Hand Formable RF Cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.29	Silver plated Copper
Dielectric	0.94	PTFE
Outer Conductor	1.19	Tinned Copper Braid

Electrical Specifications:

Operating Freq.: 40 GHz

Impedance: 50 Ω

Signal delay: 4.7ns/m

Velocity of Propagation: 70%

Shielding Effectiveness: >100 dB

Dielectric Withstanding Voltage: 500 V DC

Mechanical Specifications:

Static Bending Radius: 3.18 mm

Dynamic Bending Radius: 12 mm

Weight: 6 g/m

Environmental Specifications:

Temperature: -55°C~+125 °C

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

Freq.(GHz)	0.5	1	2	3	6	10	18	26.5	40
Attenuation ¹	82	118	171	213	313	420	595	753	977
Avg. Power ²	45	32	23	18	13	10	8	6	5
K1: 3.512916, K2: 0.006852									

1: Typical value@+25 °C,VSWR=1.0;

2: Typical value@+40 °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.: FS047SF-40-KM-KF-1 means FS047SF cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.

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

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material*
2.92mm (K)	40GHz	1.30:1	Passivated Stainless Steel
SMP (P)	40GHz	1.30:1	Beryllium Copper
3.5mm (3)	33GHz	1.25:1	Passivated Stainless Steel
SMA (S)	26.5GHz	1.25:1	Passivated Stainless Steel
N (N)	18GHz	1.25:1	Nickel Plated Brass
BNC (B)	4GHz	1.25:1	Nickel Plated Brass
SMB (E)	4GHz	1.25:1	Nickel Plated Brass

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