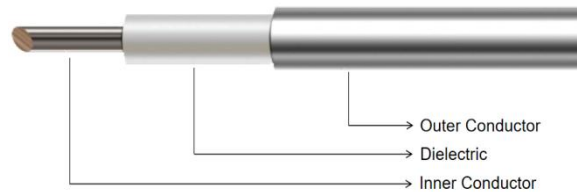


FS047R

40GHz, 50 Ohm, Φ 1.22mm, Tri-metal plated seamless copper tube, Semi-rigid cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.29	Silver plated Copper
Dielectric	0.95	PTFE
Outer Conductor	1.22	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Freq.: 40 GHz

Cut-off Freq.: 110 GHz

Impedance: 50 Ω

Velocity of Propagation: 70%

Shielding Effectiveness: >165 dB

Dielectric Withstanding Voltage: 100 V DC

Mechanical Specifications:

Static Bending Radius: 4.2 mm

Weight: 4 g/m

Environmental Specifications:

Temperature: -55°C~+125 °C

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

Freq.(GHz)	1	2	6	8	12.4	18	26.5	40
Attenuation ¹	113.6	162.4	288.6	336.4	425.9	522.0	646.9	816.3
Avg. Power ²	147	103	58	50	39	32	26	20
K1: 3.5016, K2: 0.0029								

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

Eg.: FS047R-40-KM-KF-1 means FS047R cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.