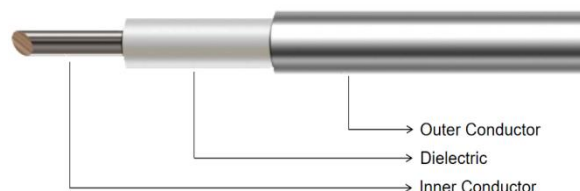


FS086R1

40GHz, 50 Ohm, Φ 2.18mm, Tri-metal plated seamless copper tube, Low-loss semi-rigid cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.56	Silver plated Copper
Dielectric	1.68	PTFE
Outer Conductor	2.18	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Freq.: 40 GHz

Cut-off Freq.: 64 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >165 dB

Dielectric Withstanding Voltage: 500 V DC

Mechanical Specifications:

Static Bending Radius: 7 mm

Weight: 21 g/m

Environmental Specifications:

Temperature: -55°C~+250 °C

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

Freq.(GHz)	1	2	6	8	12.4	18	26.5	40
Attenuation ¹	58.3	82.8	144.9	168.0	210.6	255.5	312.8	388.7
Avg. Power ²	259	182	104	90	72	59	48	39
K1: 1.825328, K2: 0.000590								

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.: FS086R1-40-KM-KF-1 means FS086R1 cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.