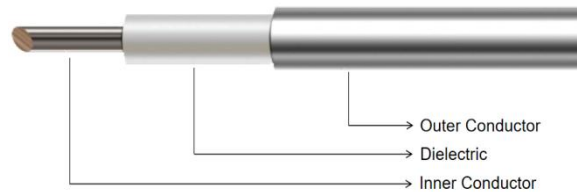


FS141R1

26.5GHz, 50 Ohm, Φ 3.58mm, Tri-metal plated seamless copper tube, Low-loss semi-rigid cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.99	Silver plated Copper
Dielectric	3.00	PTFE
Outer Conductor	3.58	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Freq.: 26.5 GHz

Cut-off Freq.: 36 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >165 dB

Dielectric Withstanding Voltage: 1000 V DC

Mechanical Specifications:

Static Bending Radius: 15 mm

Weight: 47 g/m

Environmental Specifications:

Temperature: -55~+250 $^{\circ}$ C

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

Freq.(GHz)	1	2	6	8	10	12.4	18	26.5
Attenuation ¹	31.7	45.5	81.7	95.6	108.1	121.8	150.3	187.7
Avg. Power ²	1121	781	435	372	329	292	236	189
K1: 0.965845, K2: 0.001151								

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

2: Typical value@+40 $^{\circ}$ C,atmospheric pressure;

3: Typical Cable Attenuation Calculation, Formula: $K1*\sqrt{F(\text{MHz})} + K2*F(\text{MHz})$;

4: Typical Connector Attenuation Calculation, Formula: $0.03*\sqrt{F(\text{GHz})}$.

Cable Assemblies Naming Rule:

PN: Cable-Max. Freq.-Conn.1-Conn.2-Length(m)

Eg.: FS141R1-26.5-SM-SF-1 means FS141R1 cable, DC-26.5GHz, SMA(m)-SMA(f), 1m.