

FS141SR

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

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.94	Silver plated Copper
Dielectric	2.98	PTFE
Outer Conductor	3.58	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Freq.: 26.5 GHz

Cut-off Freq.: 34 GHz

Impedance: 50 Ω

Velocity of Propagation: 70%

Shielding Effectiveness: >165 dB

Dielectric Withstanding Voltage: 500 V DC

Mechanical Specifications:

Static Bending Radius: 10 mm

Weight: 47 g/m

Environmental Specifications:

Temperature: -55 °C~+125 °C

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

Freq.(GHz)	1	2	6	8	10	12.4	18	26.5
Attenuation ¹	38.2	55.5	102.4	120.8	137.7	156.4	195.9	249.2
Avg. Power ²	1121	772	419	355	311	274	219	172
K1: 1.131702, K2: 0.002450								

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.: FS141SR-26.5-SM-SF-1 means FS141SR cable, DC-26.5GHz, SMA(m)-SMA(f), 1m.

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

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material*
2.92mm (K)	26.5GHz	1.25:1	Passivated Stainless Steel
SMA (S)	26.5GHz	1.25:1	Nickel Plated Brass
N (N)	18GHz	1.25:1	Nickel Plated Brass

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