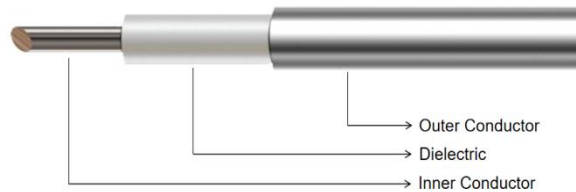


FS250R

18GHz, 50 Ohm, $\Phi 6.35\text{mm}$, Tri-metal plated seamless copper tube, Semi-rigid cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	1.63	Silver plated Copper
Dielectric	5.28	PTFE
Outer Conductor	6.35	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Freq.: 18 GHz

Cut-off Freq.: 24 GHz

Impedance: 50 Ω

Velocity of Propagation: 70%

Shielding Effectiveness: >165 dB

Dielectric Withstanding Voltage: 500 V DC

Mechanical Specifications:

Static Bending Radius: 30 mm

Weight: 146 g/m

Environmental Specifications:

Temperature: -55~+125 $^{\circ}\text{C}$

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

Freq.(GHz)	1	2	3	6	8	10	12.4	18
Attenuation ¹	22.5	34.1	44.0	69.1	84.0	98.1	114.2	149.7
Avg. Power ²	1455	959	745	474	390	334	287	219
K1: 0.587270, K2: 0.003937								

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

2: Typical value@+40 $^{\circ}\text{C}$, 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.: FS250R-18-SM-SF-1 means FS250R cable, DC-18GHz, SMA(m)-SMA(f), 1m.