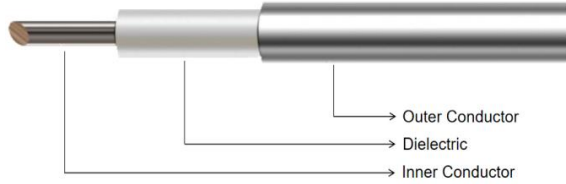


FS250SR-X

18GHz, 50 Ohm, Φ6.35mm, Tri-metal plated seamless copper tube, Low-loss semi-rigid cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	1.78	Silver plated Copper
Dielectric	5.33	PTFE
Outer Conductor	6.35	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Freq.: 18 GHz

Cut-off Freq.: 19 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >165 dB

Dielectric Withstanding Voltage: 2200 V DC

Mechanical Specifications:

Static Bending Radius: 32 mm

Weight: 136 g/m

Environmental Specifications:

Temperature: -55°C~+250 °C

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

Freq.(GHz)	1	2	3	6	8	10	12.4	18
Attenuation ¹	18.3	26.2	32.4	47.0	54.9	62.1	69.9	86.1
Avg. Power ²	1455	1014	819	566	484	428	380	308
K1: 0.557600, K2: 0.000630								

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.: FS250SR-X-18-SM-SF-1 means FS250SR-X cable, DC-18GHz, 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*
SMA (S)	18GHz	1.25:1	Nickel Plated Brass
TNC (T)	18GHz	1.25:1	Nickel Plated Brass
N (N)	18GHz	1.25:1	Nickel Plated Brass
BNC (B)	4GHz	1.30:1	Nickel Plated Brass

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