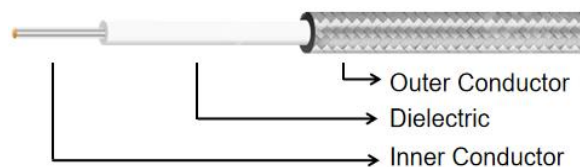


FS250SF

18GHz, 50 Ohm, Φ6.20mm, Tinned Copper Braid, Hand Formable RF Cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	1.63	Silver plated Copper
Dielectric	5.30	PTFE
Outer Conductor	6.20	Tinned Copper Braid

Electrical Specifications:

Operating Freq.: 18 GHz

Impedance: 50 Ω

Signal delay: 4.7ns/m

Velocity of Propagation: 70%

Shielding Effectiveness: >100 dB

Dielectric Withstanding Voltage: 2500 V DC

Mechanical Specifications:

Static Bending Radius: 30 mm

Dynamic Bending Radius: 120 mm

Weight: approx.120 g/m

Environmental Specifications:

Temperature: -55°C~+125 °C

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

Freq.(GHz)	0.5	1	2	3	5	6	10	18
Attenuation ¹	16	24	35	45	62	69	96	144
Avg. Power ²	1301	920	651	531	411	376	291	217
K1: 0.645600, K2: 0.003180								

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.: FS250SF-18-NM-NF-1 means FS250SF cable, DC-18GHz, N(m)-N(f), 1m.

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

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material*
SMP (P)	18GHz	1.30:1	Beryllium Copper
SMA (S)	18GHz	1.25:1	Passivated Stainless Steel
N (N)	18GHz	1.25:1	Nickel Plated Brass
MCX	6GHz	1.25:1	Nickel Plated Brass
MMCX	6GHz	1.25:1	Nickel Plated Brass
BNC (B)	4GHz	1.25:1	Nickel Plated Brass
SMB (E)	4GHz	1.25:1	Nickel Plated Brass

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