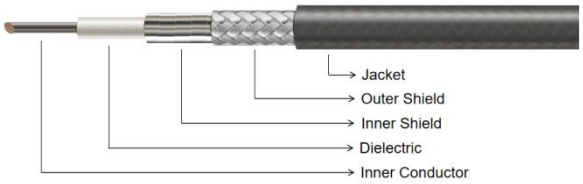
FS1000A

18GHz, 50 Ohm, Φ10.0mm, FEP Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	3.00	Silver plated Copper
Dielectric	8.24	Low Density PTFE
Inner Shield	8.48	Silver Plated Copper Strip
Outer Shield	9.20	Silver Plated Copper Braid
Jacket	10.00	FEP

Electrical Specifications:

Operating Freq.: 10 GHz
Cut-off Freq.: 13.5 GHz
Impedance: 50 Ω
Velocity of Propagation: 83%
Shielding Effectiveness: >90 dB
Dielectric Withstanding Voltage: 3000 V DC
Passive Intermodulation (PIM): -155dBc
Phase Change vs Temperature: <750PPM@-55~+85 °C

Mechanical Specifications:

Static Bending Radius: 50 mm
Dynamic Bending Radius: 100 mm
Weight: 206 g/m

Environmental Specifications:

Temperature: -55~+105 °C

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

Freq.(GHz)	1	2	3	6	8	10	12.4	16	18
Attenuation[1]	10.4	15	18.7	27.2	31.9	36.1	40.8	47.2	50.5
Avg. Power[2]	3512	2440	1996	1350	1151	1016	900	778	727
K1: 0.316177, K2: 0.000448									

1: Typical value@+25 °C,VSWR=1.0;
2: Typical value@+40 °C,VSWR=1.0,Sea Level;
3: Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)}+K2*F(MHz)$;
4: Typical Connector Attenuation Calculation Formula: $0.03*\sqrt{F(GHz)}$.

Cable Assemblies Naming Rule:

PN: Cable-Max. Freq.-Conn.1-Conn.2-Length(m)
Eg.: FS1000A-10-NM-NF-1 means FS1000A cable, DC-10GHz, 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
N (N)	18GHz	1.25:1	Passivated Stainless Steel
TNC (T)	18GHz	1.25:1	
SC (G)	6GHz	1.25:1	