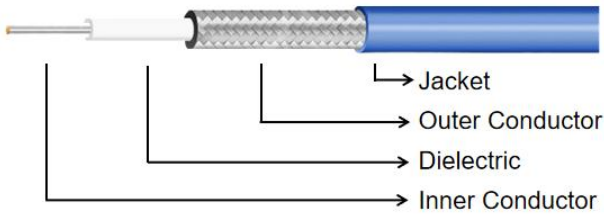
FS086SF-F

40GHz, 50 Ohm, Φ2.65mm,FEP Jacket, Hand Formable RF Cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.52	Silver plated Copper
Dielectric	1.65	PTFE
Outer Conductor	2.15	Tinned Copper Braid
Jacket	2.65	FEP

Electrical Specifications:

Operating Freq.: 40 GHz
Impedance: 50 Ω
Signal delay: 4.7ns/m
Velocity of Propagation: 70%
Shielding Effectiveness: >100 dB
Dielectric Withstanding Voltage: 1000 V DC

Mechanical Specifications:

Static Bending Radius: 6.0 mm
Dynamic Bending Radius: 20 mm
Weight: approx.19 g/m

Environmental Specifications:

Temperature: -55°C~+125 °C

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

Freq.(GHz)	0.5	1	2	3	6	10	18	26.5	40
Attenuation[1]	50	72	105	131	194	261	374	477	623
Avg. Power[2]	229	162	115	94	66	51	38	31	26
K1: 2.115000, K2: 0.004990									

1: Typical value@+25 °C,VSWR=1.0;
2: Typical value@+40 °C, atmospheric pressure;
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-Freq.-Conn.1-Conn.2-Length(m)
Eg.: FS086SF-F-40-KM-KF-1 means FS086SF-F cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.
Add “R” for right-angle or “H” for bulkhead after the connector code (e.g., KMR, KFH)

Connectors Options	Frequency (Max)	VSWR (Max)	Body Material*
2.92mm (K)	40GHz	1.30:1	Passivated Stainless Steel
SMP (P)	40GHz	1.30:1	Beryllium Copper
3.5mm (3)	33GHz	1.25:1	Passivated Stainless Steel
SMA (S)	26.5GHz	1.25:1	Passivated Stainless Steel
N (N)	18GHz	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.