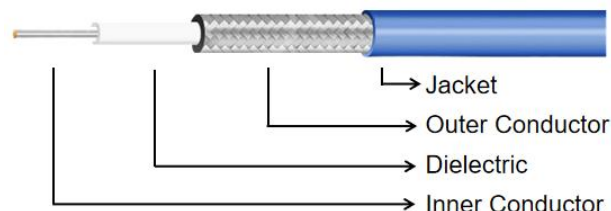


FS141SF-F

33GHz, 50 Ohm, Φ 4.15mm, FEP Jacket, Hand Formable RG402 Cable

Structure:



Structure Details

Cable Type	Dia.(mm)	Material
Inner Conductor	0.93	Silver plated Copper
Dielectric	2.98	PTFE
Outer Conductor	3.52	Tinned Copper Braid
Jacket	4.15	FEP

Electrical Specifications:

Operating Freq.: 33 GHz

Impedance: 50 Ω

Signal delay: 4.7ns/m

Velocity of Propagation: 70%

Shielding Effectiveness: >100 dB

Dielectric Withstanding Voltage: 1500 V DC

Mechanical Specifications:

Static Bending Radius: 8.0 mm

Dynamic Bending Radius: 40 mm

Weight: approx.52 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	33
Attenuation ¹	28	41	60	75	112	152	219	281	369
Avg. Power ²	601	425	301	245	174	134	100	83	74
K1: 1.193399, K2: 0.003261									

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.: FS141SF-F-26.5-SM-SF-1 means FS141SF-F cable, DC-26.5GHz, 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*
SMP (P)	33GHz	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
MCX	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.