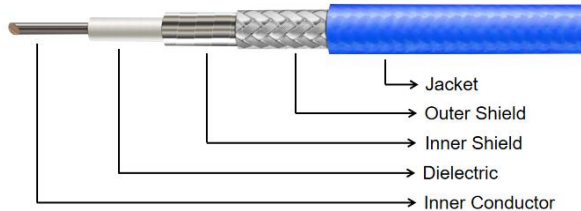


FS160C

18GHz, 50 Ohm, Φ 1.45mm, FEP Jacket, Economical Flexible Cable, Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	0.30	Silver plated Copper
Dielectric	0.95	PTFE
Inner Shield	1.07	Silver Plated Copper Strip
Outer Shield	1.25	Silver Plated Copper Braid
Jacket	1.45	FEP

Electrical Specifications:

Operating Freq.: 18 GHz

Cut-off Freq.:110 GHz

Impedance: 50 Ω

Velocity of Propagation: 70%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 600 V DC

Mechanical Specifications:

Static Bending Radius: 8 mm

Dynamic Bending Radius: 15 mm

Weight: 6 g/m

Environmental Specifications:

Temperature: -55~+125 $^{\circ}$ C

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

Freq.(GHz)	0.3	0.5	1	2	3	6	8	10	12.4	18
Attenuation ¹	73.8	95.4	135.2	191.6	235.1	334.0	386.5	433.0	483.2	584.7
Avg. Power ²	150	116	82	58	47	33	29	26	23	19
K1: 4.248276, K2: 0.000820										

1: Typical value@+25 $^{\circ}$ C,VSWR=1.0;

2: Typical value@+40 $^{\circ}$ C,atmospheric pressure;

3: Typical Cable Attenuation Calculation, Formula: $K1*\sqrt{F(\text{MHz})} + K2*F(\text{MHz})$;

4: Typical Connector Attenuation Calculation, Formula: $0.03*\sqrt{F(\text{GHz})}$.

Cable Assemblies Naming Rule:

PN: Cable-Max. Freq.-Conn.1-Conn.2-Length(m)

Eg.: FS160C-18-SM-SF-1 means FS160C cable, DC-18GHz, SMA(m)-SMA(f), 1m.