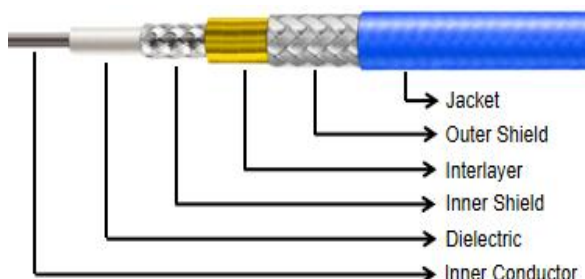


FS460B

18GHz, 50 Ohm, Φ 4.6mm, FEP Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	1.02	Silver plated Copper
Dielectric	3.07	Low Density PTFE
Inner Shield	3.27	Silver Plated Copper Strip
Interlayer	3.43	High-Temp Aluminum Foil
Outer Shield	4.00	Silver Plated Copper Braid
Jacket	4.60	FEP

Electrical Specifications:

Operating Freq.: 18 GHz

Cut-off Freq.: 35 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 1500 V DC

Passive Intermodulation (PIM): -155dBc

Mechanical Specifications:

Static Bending Radius: 23 mm

Dynamic Bending Radius: 46 mm

Weight: 53 g/m

Environmental Specifications:

Temperature: -55~+200 $^{\circ}$ C

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

Freq.(GHz)	1	2	3	6	8	10	12.4	16	18
Attenuation ¹	35.4	50.4	62	88.8	103.2	116	129.9	148.7	158.3
Avg. Power ²	569	400	324	227	195	174	155	135	127
K1: 1.099485, K2: 0.000602									

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

2: Typical value@+40 $^{\circ}$ C, VSWR=1.0, Sea Level;

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.: FS460B-18-SM-SF-1 means FS460B cable, DC-18GHz, 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
SMA (S)	18GHz	1.25:1	Passivated Stainless Steel