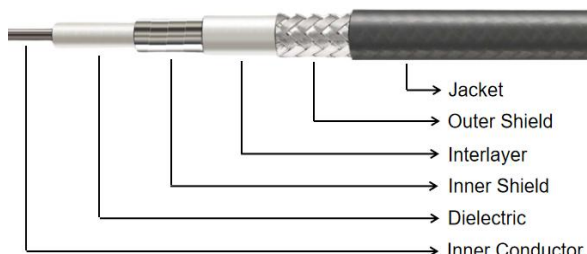


FS400A1

40GHz, 50 Ohm, Φ 4.2mm, PFA Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	1.05	Silver plated Copper
Dielectric	2.85	Low Density PTFE
Inner Shield	3.05	Silver Plated Copper Strip
Interlayer	3.30	Low Density PTFE
Outer Shield	3.65	Silver Plated Copper Braid
Jacket	4.20	FEP

Electrical Specifications:

Operating Freq.: 40 GHz

Cut-off Freq.: 41 GHz

Impedance: 50 Ω

Velocity of Propagation: 82%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 1500 V DC

Passive Intermodulation (PIM): -155dBc

Phase Change vs Temperature: <750PPM@-55~+85 $^{\circ}$ C

Mechanical Specifications:

Static Bending Radius: 21mm

Dynamic Bending Radius: 42 mm

Weight: 37 g/m

Environmental Specifications:

Temperature: -55~+165 $^{\circ}$ C

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

Freq.(GHz)	1	2	3	6	8	10	12.4	18	26.5	40
Attenuation ¹	33.5	47.5	58.3	82.8	95.8	107.2	119.7	144.7	176.4	218.1
Avg. Power ²	634	447	365	257	222	198	178	147	120	97
K1: 1.054470, K2: 0.000180										

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.: FS400A1-40-KM-KF-1 means FS400A1 cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.