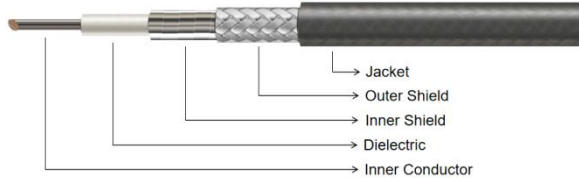


FS220A

40GHz, 50 Ohm, Φ 2.2mm, PFA Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	0.50	Silver plated Copper
Dielectric	1.38	Low Density PTFE
Inner Shield	1.54	Silver Plated Copper Strip
Outer Shield	1.95	Silver Plated Copper Braid
Jacket	2.20	PFA

Electrical Specifications:

Operating Freq.: 40 GHz

Cut-off Freq.: 83 GHz

Impedance: 50 Ω

Velocity of Propagation: 81%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 1000 V DC

Passive Intermodulation (PIM): -155dBc

Phase Change vs Temperature: <750PPM@-55~+85 °C

Mechanical Specifications:

Static Bending Radius: 11 mm

Dynamic Bending Radius: 22 mm

Weight: 16 g/m

Environmental Specifications:

Temperature: -55~+125 °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	63.7	90.8	111.9	160.4	186.49	209.79	235.16	287.06	354.0	444.0
Avg. Power ²	110	77	63	44	38	33	30	24	20	16
K1: 1.975832, K2: 0.001221										

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-Max. Freq.-Conn.1-Conn.2-Length(m)

Eg.: FS220A-40-KM-KF-1 means FS220A cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.