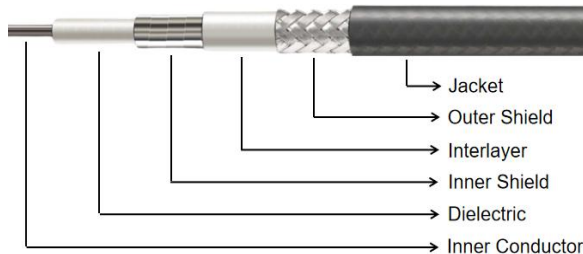


FS360A1

40GHz, 50 Ohm, Φ 3.9mm, PFA Jacket, Flexible Cable. Solid Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	0.91	Silver plated Copper
Dielectric	2.50	Low Density PTFE
Inner Shield	2.66	Silver Plated Copper Strip
Interlayer	2.95	Low Density PTFE
Outer Shield	3.35	Silver Plated Copper Braid
Jacket	3.90	PFA

Electrical Specifications:

Operating Freq.: 40 GHz
 Cut-off Freq.: 46 GHz
 Impedance: 50 Ω
 Velocity of Propagation: 82%
 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: 20 mm
 Dynamic Bending Radius: 40 mm
 Weight: 35 g/m

Environmental Specifications:

Temperature: -55~+165 °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	37.5	53.4	65.6	93.8	108.9	122.3	136.9	166.7	204.8	255.7
Avg. Power ²	509	358	291	203	175	156	139	115	93	75
K1: 1.168470, K2: 0.000550										

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.: FS360A1-40-KM-KF-1 means FS360A1 cable, DC-40GHz, 2.92mm(m)-2.92mm(f), 1m.