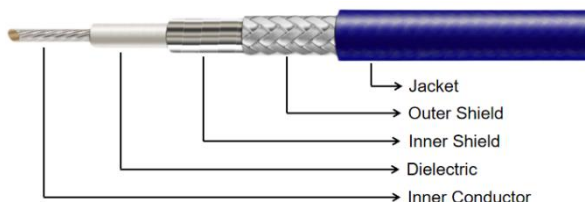


FS800Z

18GHz, 50 Ohm, Φ8.0mm, PUR Jacket, Ultra Flexible Cable, Stranded Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	1.88	Silver plated Copper
Dielectric	5.50	Low Density PTFE
Inner Shield	5.74	Silver Plated Copper Strip
Outer Shield	6.31	Silver Plated Copper Braid
Jacket	8.00	PUR

Electrical Specifications:

Operating Freq.: 18 GHz

Cut-off Freq.: 20 GHz

Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 2000 V DC

Mechanical Specifications:

Static Bending Radius: 40 mm

Dynamic Bending Radius: 80 mm

Weight: 116 g/m

Environmental Specifications:

Temperature: -55~+85 °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	9.5	12.5	18.2	26.7	33.8	50.9	60.7	69.8	80	101.9
Avg. Power ²	626	477	327	222	176	117	98	85	74	58
K1: 0.517315, K2: 0.001806										

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.: FS800Z-18-NM-NF-1 means FS800Z cable, DC-18GHz, N(m)-N(f), 1m.