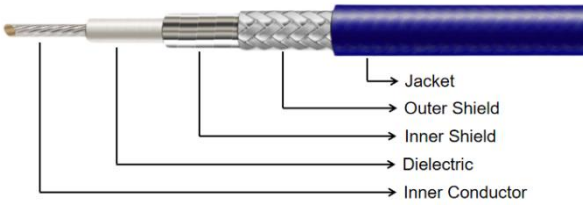
FS500Z

26.5GHz, 50 Ohm, Φ5.0mm, PUR Jacket, Ultra Flexible Cable, Stranded Inner Conductor

Structure:



Structure Details:

Cable Type	Dia.(mm)	Material
Inner Conductor	1.02	Silver plated Copper
Dielectric	3.00	Low Density PTFE
Inner Shield	3.20	Silver Plated Copper Strip
Outer Shield	3.78	Silver Plated Copper Braid
Jacket	5.00	PUR

Electrical Specifications:

Operating Freq.: 26.5 GHz
Cut-off Freq.: 35 GHz
Impedance: 50 Ω
Velocity of Propagation: 76%
Shielding Effectiveness: >90 dB
Dielectric Withstanding Voltage: 1600 V DC

Mechanical Specifications:

Static Bending Radius: 25 mm
Dynamic Bending Radius: 50 mm
Weight: 51 g/m

Environmental Specifications:

Temperature: -55~+85 °C

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

Freq.(GHz)	0.5	1	2	3	6	8	10	12.4	18	26.5
Attenuation[1]	26.7	38.5	55.9	69.8	103.2	121.9	139.0	157.9	198.0	252.1
Avg. Power[2]	215	149	103	82	56	47	41	36	29	23
K1: 1.136600, K2: 0.002530										

1: Typical value@+25 °C,VSWR=1.0;
2: Typical value@+40 °C,VSWR=1, Sea Level;
3: Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)}+K2*F(MHz)$;
4: Typical Connector Attenuation Calculation Formula: $0.03*\sqrt{F(GHz)}$.

Cable Assemblies Naming Rule:

PN: Cable-Freq.-Conn.1-Conn.2-Length(m)
Eg.: FS500Z-26.5-SM-SF-1 means FS500Z cable, DC-26.5GHz, 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*
2.92mm (K)	26.5GHz	1.25:1	Passivated Stainless Steel
3.5mm (3)	26.5GHz	1.25:1	Passivated Stainless Steel
SMA (S)	26.5GHz	1.25:1	Passivated Stainless Steel
N (N)	18GHz	1.25:1	Passivated Stainless Steel

*Connector material is subject to availability; please confirm material when placing your order.