

YSUFLL-520LF

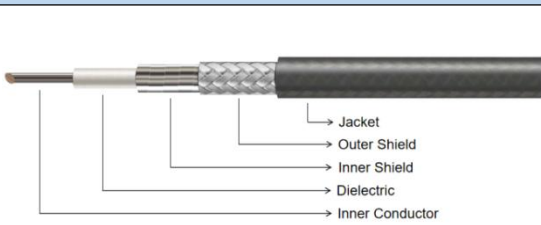
26.5 GHz, φ5.30 mm Ultra-Flexible Low-Loss RF Cable Assembly

Key Features

- Low Insertion Loss
- High Power Handling
- Low PIM (-155 dBc)
- Excellent RF Performance
- High Reliability

Applications

- Aerospace & Avionics
- Electronic Warfare Systems
- Wireless Base Station Interconnects
- RF & Microwave Testing
- High-Power RF Systems

Cable Construction									
			Cable Type	Dia.(mm)	Material				
			Inner Conductor	φ1.35	Silver plated Copper				
			Dielectric	φ3.80	Low Density PTFE				
			Inner Shield	φ4.00	Silver Plated Copper Strip				
			Outer Shield	φ4.55	Silver Plated Copper Braid				
			Jacket	φ5.30	FEP				
Electrical Specifications					Mechanical Specifications				
Operating Freq.	26.5 GHz				Static Bending Radius	26 mm			
Cut-off Freq.	28 GHz				Dynamic Bending Radius	53 mm			
Impedance	50 Ω				Weight	68 g/m			
Velocity of Propagation	76%				Environmental Specifications				
Shielding Effectiveness	>90 dB				Operating Temperature	-55 to +165°C			
Dielectric Withstanding Voltage	1500 VDC								
Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C)									
Freq.(GHz)	1	2	3	6	8	10	12.4	18	26.5
Attenuation	30.6	43.6	53.7	77.0	89.5	100.7	112.9	137.8	169.9
Avg. Power	749	525	426	297	256	227	203	166	135
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.947785, K2=0.000591$									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)			Connectors	Freq.(Max)	VSWR (Max)		
SMA (S)	27 GHz	1.25:1			N(N)	18 GHz	1.25:1		

Cable Assemblies Naming Rule:

PN: Cable-Length(M)-Connector 1-Connector 2

Eg.: YSUFLL-520LF-1M-SM-SF means YSUFLL-520LF cable, L=1M, SMA(M)-SMA(F).

Add "R" for Right-Angle Connector, Add "H" for Bulkhead Connector (e.g., SMR, SFH).