

YSLL-530L

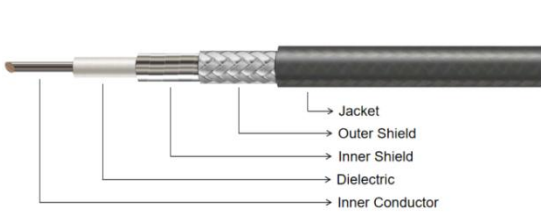
 26.5 GHz, ϕ 5.30 mm Low-Loss RF Cable Assembly

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		ϕ 1.40		Silver plated Copper				
			Dielectric		ϕ 4.15		Low Density PTFE				
			Inner Shield		ϕ 4.35		Silver Plated Copper Strip				
			Outer Shield		ϕ 4.87		Silver Plated Copper Braid				
			Jacket		ϕ 5.30		FEP				
Electrical Specifications						Mechanical Specifications					
Operating Freq.			26.5 GHz			Static Bending Radius			27 mm		
Cut-off Freq.			26.5 GHz			Dynamic Bending Radius			53 mm		
Impedance			50 Ω			Weight			70 g/m		
Velocity of Propagation			76%			Environmental Specifications					
Shielding Effectiveness			>90 dB			Operating Temperature			-55 to +165°C		
Dielectric Withstanding Voltage			2000 VDC								
Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C)											
Freq.(GHz)	1	2	4	6	8	10	12	14	16	18	26.5
Attenuation	23.9	34.5	50.2	62.7	73.6	83.5	94.4	101.2	109.4	117.2	147.4
Avg. Power	1050	728	501	401	342	301	271	248	230	215	171
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.721500, K2=0.001132$											
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.: YSLL-530L-1M-SM-SF means YSLL-530L cable, L=1M, SMA(M)-SMA(F).

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