

YSUFLL-530LF

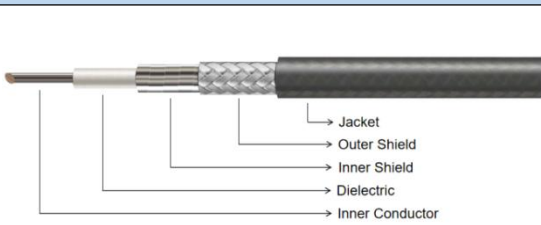
18 GHz, ϕ 5.30 mm Ultra-Flexible Low-Loss RF Cable Assembly

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	ϕ 1.44	Silver plated Copper			
			Dielectric	ϕ 4.10	Low Density PTFE			
			Inner Shield	ϕ 4.30	Silver Plated Copper Strip			
			Outer Shield	ϕ 4.85	Silver Plated Copper Braid			
			Jacket	ϕ 5.30	FEP			
Electrical Specifications				Mechanical Specifications				
Operating Freq.	18 GHz			Static Bending Radius	27 mm			
Cut-off Freq.	25 GHz			Dynamic Bending Radius	53 mm			
Impedance	50 Ω			Weight	75 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	3	6	8	10	12.4	18
Attenuation	30.4	43.5	53.8	77.6	90.6	102.2	115.0	141.3
Avg. Power	821	573	464	321	275	244	217	177
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.932400, K2=0.000900$								
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.: YSUFL-530LF-1M-SM-SF means YSUFL-530LF cable, L=1M, SMA(M)-SMA(F).

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