

YSUFLL-500Z

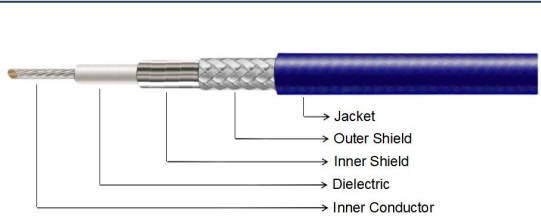
26.5 GHz, ϕ 5.00 mm Ultra-Flexible Low-Loss RF Cable Assembly

Key Features

- Multi-Core Ultra-Flexible Construction
- Excellent Mechanical Flexibility
- Harsh Environment Resistance
- Stable RF Performance
- Optimized for Complex Routing

Applications

- Armored Vehicle Systems
- Tactical Communication Platforms
- Military RF Equipment
- Compact RF Interconnect Systems
- Precision RF Test Applications

Cable Construction									
				Cable Type		Dia.(mm)		Material	
				Inner Conductor		ϕ 1.02		Silver plated Copper	
				Dielectric		ϕ 3.00		Low Density PTFE	
				Inner Shield		ϕ 3.20		Silver Plated Copper Strip	
				Outer Shield		ϕ 3.78		Silver Plated Copper Braid	
				Jacket		ϕ 5.00		PUR	
Electrical Specifications					Mechanical Specifications				
Operating Freq.		26.5 GHz			Static Bending Radius		25 mm		
Cut-off Freq.		35 GHz			Dynamic Bending Radius		50 mm		
Impedance		50 Ω			Weight		51 g/m		
Velocity of Propagation		76%			Environmental Specifications				
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +85°C		
Dielectric Withstanding Voltage		1600 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	38.5	55.9	69.8	103.2	121.9	139.0	157.9	198.0	252.1
Avg. Power	149	103	82	56	47	41	36	29	23
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$									
K1=1.136600, K2=0.002530									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)			Connectors	Freq.(Max)	VSWR (Max)		
2.92 mm (K)	40 GHz	1.30:1			SMA (S)	27 GHz	1.25:1		
3.5 mm (3)	27 GHz	1.30:1			N(N)	18 GHz	1.25:1		

Cable Assemblies Naming Rule:

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

Eg.: YSUFL-500Z-1M-SM-SF means YSUFL-500Z cable, L=1M, SMA(M)-SMA(F).

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