

YSLLPS-560A

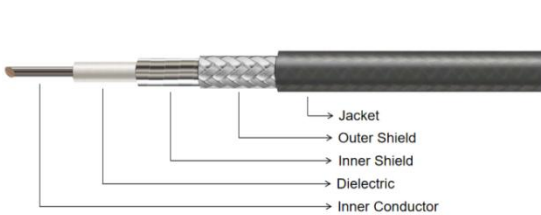
18 GHz, ϕ 5.60 mm Low-Loss Phase-Stable RF Cable Assembly

Key Features

- Outstanding Phase Stability vs. Temperature
- Ultra-Low Insertion Loss
- High Power Capability
- Excellent Low PIM Performance
- Lightweight and Rugged Construction

Applications

- Phased Array Radar
- Aerospace & Avionics Systems
- Electronic Warfare and Defense Systems
- Low-Loss Phase-Critical Applications

Cable Construction										
			Cable Type		Dia.(mm)		Material			
			Inner Conductor		Φ 1.60		Silver plated Copper			
			Dielectric		Φ 4.30		Low Density PTFE			
			Inner Shield		Φ 4.50		Silver Plated Copper Strip			
			Outer Shield		Φ 5.10		Silver Plated Copper Braid			
			Jacket		Φ 5.60		PFA			
Electrical Specifications					Mechanical Specifications					
Operating Freq.		18 GHz			Static Bending Radius		28 mm			
Cut-off Freq.		26.5 GHz			Dynamic Bending Radius		56 mm			
Impedance		50 Ω			Weight		75 g/m			
Velocity of Propagation		83%			Environmental Specifications					
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +165°C			
Dielectric Withstanding Voltage		2000 VDC								
Passive Intermodulation (PIM)		<-155 dBc								
Phase Stability vs. Temperature		<750 PPM @ -55 to +85°C								
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	16	18	
Attenuation	22.3	31.6	38.8	55.0	63.6	71.2	79.5	90.5	96.1	
Avg. Power	1233	870	709	500	432	386	346	304	286	
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ $K1=0.701472, K2=0.000110$										
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.: YSLLPS-560A-1M-SM-SF means YSLLPS-560A cable, L=1M, SMA(M)-SMA(F).

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