

YSLLPS-480A

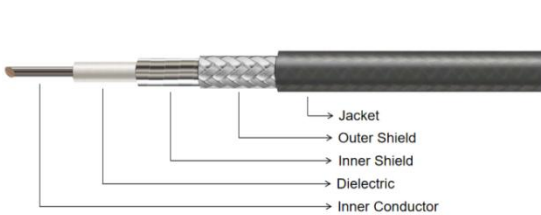
26.5 GHz, ϕ 4.80 mm Low-Loss Phase-Stable RF Cable Assembly

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 1.40	Silver plated Copper				
			Dielectric	Φ 3.75	Low Density PTFE				
			Inner Shield	Φ 3.95	Silver Plated Copper Strip				
			Outer Shield	Φ 4.35	Silver Plated Copper Braid				
			Jacket	Φ 4.80	PFA				
Electrical Specifications					Mechanical Specifications				
Operating Freq.	26.5 GHz				Static Bending Radius	24 mm			
Cut-off Freq.	31 GHz				Dynamic Bending Radius	48 mm			
Impedance	50 Ω				Weight	55 g/m			
Velocity of Propagation	83%				Environmental Specifications				
Shielding Effectiveness	>90 dB				Operating Temperature	-55 to +165°C			
Dielectric Withstanding Voltage	1500 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	18	26.5
Attenuation	24.1	34.2	42.1	60.1	69.7	78.3	87.6	106.6	130.8
Avg. Power	1050	738	600	420	362	323	288	237	193
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.750400, K2=0.000328$									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)			
2.92 mm (K)	40 GHz	1.30:1		N(N)	18 GHz	1.25:1			
3.5 mm (3)	27 GHz	1.30:1							
SMA (S)	27 GHz	1.25:1							
TNC(T)	12 GHz	1.25:1							
BNC(B)	4 GHz	1.30:1							

Cable Assemblies Naming Rule:

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

Eg.: YSLLPS-480A-1M-SM-SF means YSLLPS-480A cable, L=1M, SMA(M)-SMA(F).

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