

YSLLPS-1000A

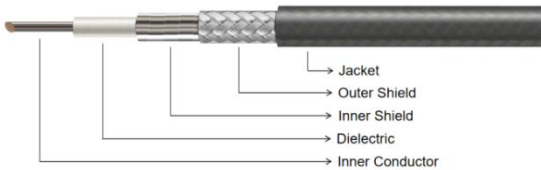
10 GHz, ϕ 10.0 mm Low-Loss Phase-Stable RF Cable Assembly

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 3.00	Silver plated Copper			
				Dielectric	Φ 8.24	Low Density PTFE			
				Inner Shield	Φ 8.48	Silver Plated Copper Strip			
				Outer Shield	Φ 9.20	Silver Plated Copper Braid			
				Jacket	ϕ 10.00	PFA			
Electrical Specifications					Mechanical Specifications				
Operating Freq.		10 GHz			Static Bending Radius		50 mm		
Cut-off Freq.		13.5 GHz			Dynamic Bending Radius		100 mm		
Impedance		50 Ω			Weight		206 g/m		
Velocity of Propagation		83%			Environmental Specifications				
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +105°C		
Dielectric Withstanding Voltage		3000 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	10.4	15.0	18.7	27.2	31.9	36.1	40.8	47.2	50.5
Avg. Power	3512	2440	1996	1350	1151	1016	900	778	727
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.316177, K2=0.000448$									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)			Connectors	Freq.(Max)	VSWR (Max)		
N(N)	18 GHz	1.25:1							
7/16(7)	6 GHz	1.25:1							

Cable Assemblies Naming Rule:

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

Eg.: YSLLPS-1000A-1M-NM-SF means YSLLPS-1000A cable, L=1M, N(M)-N(F).

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