

# YSLLPS-1200A

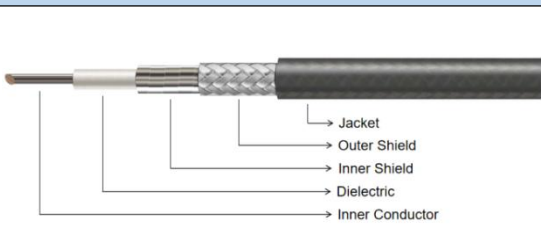
8 GHz,  $\phi$ 12.00 mm Low-Loss Phase-Stable RF Cable Assembly

## 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	$\phi$ 3.80	Silver plated Copper				
			Dielectric	$\phi$ 10.30	Low Density PTFE				
			Inner Shield	---	Silver Plated Copper Strip				
			Outer Shield	$\phi$ 11.35	Silver Plated Copper Braid				
			Jacket	$\phi$ 12.00	PFA				
Electrical Specifications				Mechanical Specifications					
Operating Freq.	8 GHz			Static Bending Radius	60 mm				
Cut-off Freq.	11 GHz			Dynamic Bending Radius	120 mm				
Impedance	50 $\Omega$			Weight	282 g/m				
Velocity of Propagation	83%			Environmental Specifications					
Shielding Effectiveness	>90 dB			Operating Temperature	-55 to +105°C				
Dielectric Withstanding Voltage	3500 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	4	5	6	7	8	
Attenuation	10.0	14.4	18.0	21.0	23.8	26.3	28.7	31.0	
Avg. Power	4447	3076	2470	2110	1865	1685	1544	1432	
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.298565, K2=0.000535$									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)			
N(N)	18 GHz	1.25:1							

## Cable Assemblies Naming Rule:

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

Eg.: YSLLPS-1200A-1M-NM-NF means YSLLPS-1200A cable, L=1M, N(M)-N(F).

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