

YSLLPS-740A

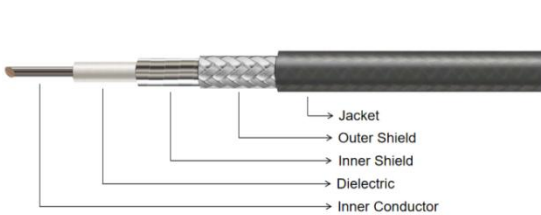
18 GHz, ϕ 7.40 mm Low-Loss Phase-Stable RF Cable Assembly

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 2.10	Silver plated Copper				
			Dielectric	Φ 5.70	Low Density PTFE				
			Inner Shield	Φ 5.95	Silver Plated Copper Strip				
			Outer Shield	Φ 6.60	Silver Plated Copper Braid				
			Jacket	Φ 7.40	PFA				
Electrical Specifications					Mechanical Specifications				
Operating Freq.	18 GHz				Static Bending Radius	37 mm			
Cut-off Freq.	20 GHz				Dynamic Bending Radius	74 mm			
Impedance	50 Ω				Weight	116 g/m			
Velocity of Propagation	83%				Environmental Specifications				
Shielding Effectiveness	>90 dB				Operating Temperature	-55 to +165°C			
Dielectric Withstanding Voltage	2500 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	16.7	23.7	29.1	41.4	47.9	53.7	59.9	68.2	72.5
Avg. Power	1979	1396	1137	801	692	618	553	486	457
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(\text{MHz})} + K2*F(\text{MHz})$ $K1=0.526279$ $K2=0.000104$									
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		
TNC(T)	12 GHz	1.25:1			SC(G)	6 GHz	1.25:1		

Cable Assemblies Naming Rule:

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

Eg.: YSLLPS-740A-1M-SM-SF means YSLLPS-740A cable, L=1M, SMA(M)-SMA(F).

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