

YSRLLPS-760AR

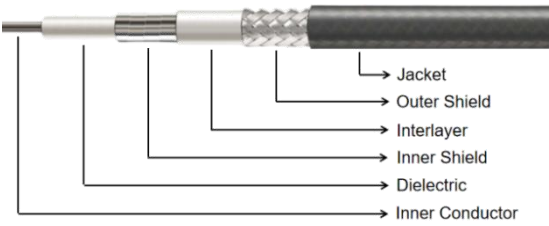
18 GHz, φ7.60 mm Reinforced Low-Loss Phase-Stable Cable Assembly

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	Φ2.10	Silver plated Copper				
			Dielectric	Φ5.70	Low Density PTFE				
			Inner Shield	Φ5.95	Silver Plated Copper Strip				
			Interlayer	Φ6.20	Low Density PTFE				
			Outer Shield	Φ6.80	Silver Plated Copper Braid				
			Jacket	Φ7.60	PFA				
Electrical Specifications					Mechanical Specifications				
Operating Freq.	18 GHz				Static Bending Radius	38 mm			
Cut-off Freq.	20 GHz				Dynamic Bending Radius	76 mm			
Impedance	50 Ω				Weight	118 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	1740	1227	1000	704	608	543	487	427	402
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ $K1=0.526279$ $K2=0.000104$									
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		
BNC(B)	4 GHz	1.30:1							

Cable Assemblies Naming Rule:

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

Eg.: YSRLLPS-760AR-1M-SM-SF means YSRLLPS-760AR cable, L=1M, SMA(M)-SMA(F).

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