

YSELLPS-600A

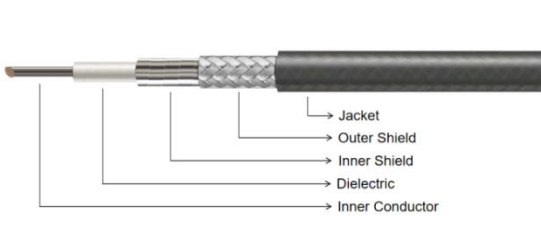
18 GHz, φ6.0 mm Low-Loss Phase-Stable RF Cable Assembly

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	Φ1.70	Silver plated Copper				
			Dielectric	Φ4.60	Low Density PTFE				
			Inner Shield	Φ4.80	Silver Plated Copper Strip				
			Outer Shield	Φ5.30	Silver Plated Copper Braid				
			Jacket	Φ6.00	PFA				
Electrical Specifications					Mechanical Specifications				
Operating Freq.	18 GHz				Static Bending Radius	30 mm			
Cut-off Freq.	25 GHz				Dynamic Bending Radius	60 mm			
Impedance	50 Ω				Weight	79 g/m			
Velocity of Propagation	83%				Environmental Specifications				
Shielding Effectiveness	>90 dB				Operating Temperature	-55 to +165°C			
Dielectric Withstanding Voltage	2000 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	20.0	28.5	35.2	50.6	58.9	66.4	74.5	85.5	91.2
Avg. Power	1452	1017	824	573	492	437	389	339	318
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(\text{MHz})} + K2*F(\text{MHz})$ $K1=0.616197, K2=0.000475$									
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							

Cable Assemblies Naming Rule:

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

Eg.: YSELLPS-600A-1M-SM-SF means YSELLPS-600A cable, L=1M, SMA(M)-SMA(F).

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