

# YSHPLL-1470B

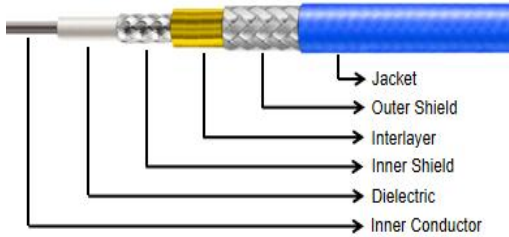
6 GHz,  $\phi$ 14.70 mm High-Power Low-Loss RF Cable Assembly

## Key Features

- High Power Capability
- Ultra-Low Loss
- Excellent Power Efficiency
- Stable RF Performance
- Robust Construction

## Applications

- Radar Systems
- Electronic Warfare
- RF Transmission Systems
- High-Power Test Platforms
- Aerospace & Defense

Cable Construction									
				Cable Type	Dia.(mm)	Material			
				Inner Conductor	$\Phi$ 4.40	Silver plated Copper			
				Dielectric	$\Phi$ 12.50	Low Density PTFE			
				Inner Shield	$\Phi$ 12.74	Silver Plated Copper Strip			
				Interlayer	$\Phi$ 12.85	High-Temp Aluminum Foil			
				Outer Shield	$\Phi$ 13.60	Silver Plated Copper Braid			
				Jacket	$\Phi$ 14.70	FEP			
Electrical Specifications					Mechanical Specifications				
Operating Freq.		6 GHz			Static Bending Radius		74 mm		
Cut-off Freq.		8 GHz			Dynamic Bending Radius		147 mm		
Impedance		50 $\Omega$			Weight		432 g/m		
Velocity of Propagation		76%			Environmental Specifications				
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +200°C		
Dielectric Withstanding Voltage		4000 VDC							
Passive Intermodulation (PIM)		<-155 dBc							
Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C)									
Freq.(GHz)	0.1	0.3	0.5	0.8	1	2	3	5	6
Attenuation	3.1	5.4	7.1	9.1	10.2	14.8	18.4	24.5	27.1
Avg. Power	14724	8384	6433	5031	4472	3088	2477	1866	1684
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$									
K1=0.304208, K2=0.000591									
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.: YSHPLL-1470B-1M-SM-SF means YSHPLL-1470B cable, L=1M, SMA(M)-SMA(F).

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