

YSHPLL-930B

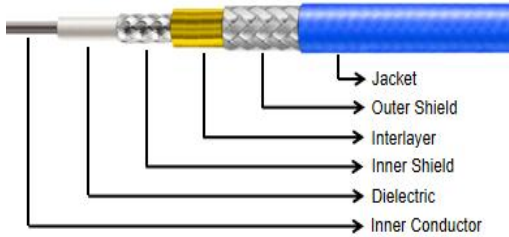
10 GHz, ϕ 9.30 mm High-Power Low-Loss RF Cable Assembly

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	Φ 2.44	Silver plated Copper				
				Dielectric	Φ 7.24	Low Density PTFE				
				Inner Shield	Φ 7.48	Silver Plated Copper Strip				
				Interlayer	Φ 7.61	High-Temp Aluminum Foil				
				Outer Shield	Φ 8.19	Silver Plated Copper Braid				
				Jacket	Φ 9.30	FEP				
Electrical Specifications					Mechanical Specifications					
Operating Freq.	10 GHz				Static Bending Radius	47 mm				
Cut-off Freq.	15 GHz				Dynamic Bending Radius	93 mm				
Impedance	50 Ω				Weight	193 g/m				
Velocity of Propagation	76%				Environmental Specifications					
Shielding Effectiveness	>90 dB				Operating Temperature	-55 to +200°C				
Dielectric Withstanding Voltage	3000 VDC									
Passive Intermodulation (PIM)	<-155 dBc									
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	9	10
Attenuation	14.7	21.1	26.2	30.6	34.5	38.2	41.5	44.7	47.7	50.6
Avg. Power	2485	1728	1393	1194	1058	958	880	818	766	722
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ $K1=0.446080, K2=0.000600$										
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-930B-1M-SM-SF means YSHPLL-930B cable, L=1M, SMA(M)-SMA(F).

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