

YSHPLL-635B

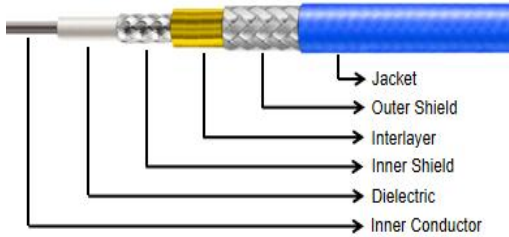
18 GHz, ϕ 6.35 mm High-Power Low-Loss RF Cable Assembly

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 1.57	Silver plated Copper			
				Dielectric	Φ 4.72	Low Density PTFE			
				Inner Shield	Φ 4.96	Silver Plated Copper Strip			
				Interlayer	Φ 5.10	High-Temp Aluminum Foil			
				Outer Shield	Φ 5.66	Silver Plated Copper Braid			
				Jacket	Φ 6.35	FEP			
Electrical Specifications					Mechanical Specifications				
Operating Freq.	18 GHz				Static Bending Radius	32 mm			
Cut-off Freq.	27 GHz				Dynamic Bending Radius	64 mm			
Impedance	50 Ω				Weight	93 g/m			
Velocity of Propagation	76%				Environmental Specifications				
Shielding Effectiveness	>90 dB				Operating Temperature	-55 to +200°C			
Dielectric Withstanding Voltage	2000 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	6	8	10	12.4	16	18
Attenuation	22.2	31.7	39.2	56.4	65.8	74.2	83.4	95.8	102.2
Avg. Power	1020	713	557	401	344	305	271	236	221
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ $K1=0.682743, K2=0.000591$									
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-635B-1M-SM-SF means YSHPLL-635B cable, L=1M, SMA(M)-SMA(F).

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