

# YSLL-870L

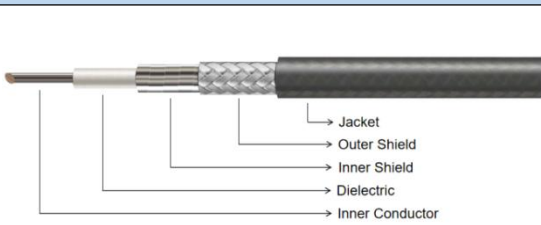
10 GHz,  $\phi$ 8.70 mm Low-Loss RF Cable Assembly

## Key Features

- Low Insertion Loss
- High Power Handling
- Low PIM (-155 dBc)
- Excellent RF Performance
- High Reliability

## Applications

- Aerospace & Avionics
- Electronic Warfare Systems
- Wireless Base Station Interconnects
- RF & Microwave Testing
- High-Power RF Systems

Cable Construction								
			Cable Type	Dia.(mm)	Material			
			Inner Conductor	$\phi$ 2.44	Silver plated Copper			
			Dielectric	$\phi$ 7.24	Low Density PTFE			
			Inner Shield	$\phi$ 7.48	Silver Plated Copper Strip			
			Outer Shield	$\phi$ 8.05	Silver Plated Copper Braid			
			Jacket	$\phi$ 8.70	FEP			
Electrical Specifications				Mechanical Specifications				
Operating Freq.	10 GHz			Static Bending Radius	44 mm			
Cut-off Freq.	14 GHz			Dynamic Bending Radius	87 mm			
Impedance	50 $\Omega$			Weight	190 g/m			
Velocity of Propagation	76%			Environmental Specifications				
Shielding Effectiveness	>90 dB			Operating Temperature	-55 to +165°C			
Dielectric Withstanding Voltage	2500 VDC							
Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C)								
Freq.(GHz)	1	2	3	4	5	6	8	10
Attenuation	16.8	24.1	29.9	34.8	39.2	43.3	50.6	57.2
Avg. Power	2433	1696	1369	1175	1043	945	808	715
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ $K1=0.512992, K2=0.000591$								
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.: YSLL-870L-1M-SM-SF means YSLL-870L cable, L=1M, SMA(M)-SMA(F).

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