

# YSCLL-810G

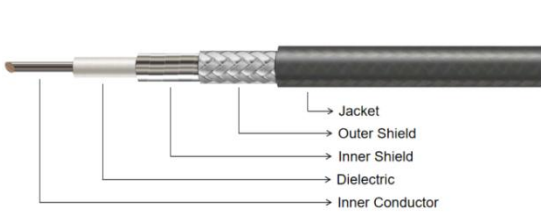
16 GHz,  $\phi$ 8.10 mm Cost-Effective Low-Loss RF Cable Assembly

## Key Features

- Low VSWR
- Low Insertion Loss
- Cost-Effective Solution
- Stable RF Performance
- Flexible Installation

## Applications

- Cabinet Interconnections
- Communication Base Stations
- RF Distribution Systems
- Wireless Communication
- General RF Applications

Cable Construction								
			Cable Type	Dia.(mm)	Material			
			Inner Conductor	$\phi$ 2.30	Silver plated Copper			
			Dielectric	$\phi$ 6.80	Low Density PTFE			
			Inner Shield	$\phi$ 6.95	Bonded Aluminum Foil			
			Outer Shield	$\phi$ 7.50	Silver-Plated Copper Wire			
			Jacket	$\Phi$ 8.10	FEP			
Electrical Specifications				Mechanical Specifications				
Operating Freq.	16 GHz			Static Bending Radius	41 mm			
Cut-off Freq.	16 GHz			Dynamic Bending Radius	81 mm			
Impedance	50 $\Omega$			Weight	134 g/m			
Velocity of Propagation	76%			Environmental Specifications				
Shielding Effectiveness	>70 dB			Operating Temperature	-55 to +125°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	6	8	10	12.4	16
Attenuation	15.1	21.8	27.2	40.1	47.3	53.8	61.0	71.0
Avg. Power	1933	1334	1069	726	616	541	477	410
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.448000, K2=0.000898$								
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.: YSCLL-810G-1M-SM-SF means YSCLL-810G cable, L=1M, SMA(M)-SMA(F).

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