

# YSIIC-400T

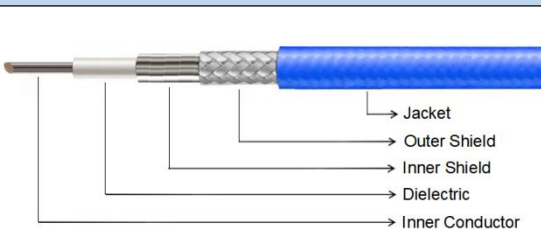
26.5 GHz,  $\phi$ 4.00 mm Internal Interconnect RF Cable Assembly

## Key Features

- Low Insertion Loss
- Low VSWR
- Compact RF Interconnect Design
- Excellent Phase Stability
- Ideal Semi-Rigid Replacement

## Applications

- Internal Chassis Interconnects
- Cabinet RF Interconnections
- Phased Array Radar Systems
- Internal Module Interconnects
- Semi-Rigid Cable Replacement

Cable Construction											
				Cable Type		Dia.(mm)		Material			
				Inner Conductor		$\phi$ 0.94		Silver plated Copper			
				Dielectric		$\phi$ 3.00		Low Density PTFE			
				Inner Shield		$\phi$ 3.20		Silver Plated Copper Strip			
				Outer Shield		$\phi$ 3.55		Silver Plated Copper Braid			
				Jacket		$\phi$ 4.00		FEP			
Electrical Specifications					Mechanical Specifications						
Operating Freq.		26.5 GHz			Static Bending Radius		20 mm				
Cut-off Freq.		34 GHz			Dynamic Bending Radius		40 mm				
Impedance		50 $\Omega$			Weight		41 g/m				
Velocity of Propagation		70%			Environmental Specifications						
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +125°C				
Dielectric Withstanding Voltage		1500 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	18	26.5		
Attenuation	37.6	55.1	69.3	103.9	123.5	141.6	161.9	205.3	264.7		
Avg. Power	290	198	157	105	88	77	67	53	41		
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$											
K1=1.082677, K2=0.003337											
Connectors Options											
Connectors	Freq.(Max)	VSWR (Max)			Connectors	Freq.(Max)	VSWR (Max)				
2.92 mm (K)	40 GHz	1.30:1			TNC(T)	12 GHz	1.25:1				
3.5 mm (3)	27 GHz	1.30:1			BNC(B)	4 GHz	1.30:1				
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.: YSIIC-400T-1M-SM-SF means YSIIC-400T cable, L=1M, SMA(M)-SMA(F).

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