

YSIIC-265T

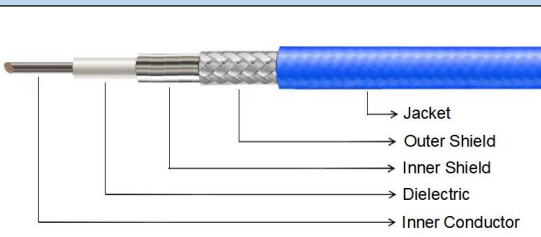
26.5 GHz, ϕ 2.65 mm Internal Interconnect RF Cable Assembly

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		ϕ 0.53		Silver plated Copper			
				Dielectric		ϕ 1.68		Low Density PTFE			
				Inner Shield		ϕ 1.83		Silver Plated Copper Strip			
				Outer Shield		ϕ 2.18		Silver Plated Copper Braid			
				Jacket		ϕ 2.65		FEP			
Electrical Specifications					Mechanical Specifications						
Operating Freq.		26.5 GHz			Static Bending Radius		13.5 mm				
Cut-off Freq.		61 GHz			Dynamic Bending Radius		26.5 mm				
Impedance		50 Ω			Weight		20 g/m				
Velocity of Propagation		70%			Environmental Specifications						
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +125°C				
Dielectric Withstanding Voltage		1000 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	62.8	91.1	113.7	167.7	197.9	225.4	256.0	320.4	407.2		
Avg. Power	119	82	66	45	38	33	29	23	18		
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(\text{MHz})} + K2*F(\text{MHz})$											
K1=1.860236, K2=0.003937											
Connectors Options											
Connectors	Freq.(Max)	VSWR (Max)	Connectors		Freq.(Max)		VSWR (Max)				
1.85 mm(v)	67 GHz	1.30:1	SSMA (M)		40 GHz		1.30:1				
2.4 mm (2)	50 GHz	1.30:1	SMP (P)		40 GHz		1.30:1				
2.92 mm (K)	40 GHz	1.30:1	SSMP (M)		65 GHz		1.30:1				
3.5 mm (3)	27 GHz	1.30:1	N(N)		18 GHz		1.25:1				
SMA (S)	27 GHz	1.25:1	MCX(C)		6 GHz		1.25:1				

Cable Assemblies Naming Rule:

PN: Cable-Length(M)-Connector 1-Connector 2

Eg.: YSIIC-265T-1M-SM-SF means YSIIC-265T cable, L=1M, SMA(M)-SMA(F).

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