YSIIC-700T

18 GHz, φ7.00 mm Internal Interconnect RF Cable Assembly

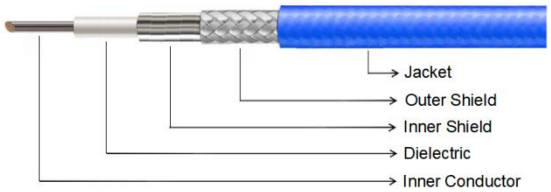
Key Features

- 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	φ1.63	Silver plated Copper
Dielectric	φ5.30	Low Density PTFE
Inner Shield	φ5.55	Silver Plated Copper Strip
Outer Shield	φ6.17	Silver Plated Copper Braid
Jacket	φ7.00	FEP

Electrical Specifications		**Mechanical Specifications**	
Operating Freq.	18 GHz	Static Bending Radius	35 mm
Cut-off Freq.	19 GHz	Dynamic Bending Radius	70 mm
Impedance	50 Ω	Weight	118 g/m
Velocity of Propagation	70%	**Environmental Specifications**	
Shielding Effectiveness	>90 dB	Operating Temperature	-55 to +125°C
Dielectric Withstanding Voltage	3000 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
Attenuation	25.7	38.7	49.5	77.0	93.1	108.3	125.5	163.3
Avg. Power	561	373	291	187	155	133	115	88

Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)} + K2*F(MHz)$
K1=0.688976, K2=0.003937

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.: YSIIC-700T-*1M-SM-SF* means YSIIC-700T cable,L=1M, SMA(M)-SMA(F).

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