

YSPTC-185C

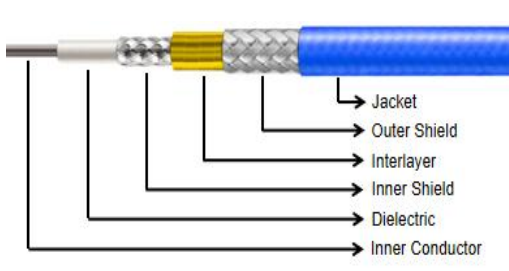
110 GHz, φ1.85 mm Precision Test Cable Assembly

Key Features

- Excellent Phase Stability
- Low Insertion Loss
- High Flexibility
- Precision RF Performance
- Wide Frequency Coverage

Applications

- RF Test Systems
- Microwave Measurements
- Phased Array Radar
- Aerospace & Avionics
- Laboratory Applications

Cable Construction									
				Cable Type	Dia.(mm)	Material			
				Inner Conductor	φ0.30	Silver plated Copper			
				Dielectric	φ0.88	Low Density PTFE			
				Inner Shield	φ1.00	Silver Plated Copper Strip			
				Interlayer	φ1.25	Low Density PTFE			
				Outer Shield	φ1.50	Silver Plated Copper Braid			
				Jacket	φ1.85	FEP			
Electrical Specifications					Mechanical Specifications				
Operating Freq.		110 GHz			Static Bending Radius		9.5 mm		
Cut-off Freq.		128 GHz			Dynamic Bending Radius		19 mm		
Impedance		50 Ω			Weight		8 g/m		
Velocity of Propagation		75%			Environmental Specifications				
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +125°C		
Dielectric Withstanding Voltage		600 VDC							
Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C)									
Freq.(GHz)	1	6	8	18	26.5	40	67	75	110
Attenuation	113.7	282.9	328.0	499.3	611.5	760.4	1002.7	1065.9	1314.3
Avg. Power	39	16	14	9	7	6	4	4	3
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)} + K2*F(MHz)$ $K1=3.557846, K2=0.001221$									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)			Connectors	Freq.(Max)	VSWR (Max)		
1.0 mm(1)	110 GHz	1.50:1			SMA (S)	27 GHz	1.25:1		
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			MCX(C)	6 GHz	1.30:1		

Cable Assemblies Naming Rule:

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

Eg.: YSPTC-185C-1M-SM-SF means YSPTC-185C cable, L=1M, SMA(M)-SMA(F).

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