

YSPTC-360C

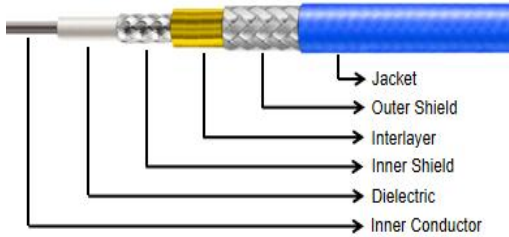
50 GHz, ϕ 3.60 mm Precision Test Cable Assembly

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	ϕ 0.72	Silver plated Copper							
				Dielectric	ϕ 2.10	Low Density PTFE							
				Inner Shield	ϕ 2.25	Silver Plated Copper Strip							
				Interlayer	ϕ 2.55	Low Density PTFE							
				Outer Shield	ϕ 3.01	Silver Plated Copper Braid							
				Jacket	ϕ 3.60	FEP							
Electrical Specifications						Mechanical Specifications							
Operating Freq.		50 GHz				Static Bending Radius		18 mm					
Cut-off Freq.		50 GHz				Dynamic Bending Radius		36 mm					
Impedance		50 Ω				Weight		31 g/m					
Velocity of Propagation		76%				Environmental Specifications							
Shielding Effectiveness		>90 dB				Operating Temperature		-55 to +165°C					
Dielectric Withstanding Voltage		1200 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	40	50		
Attenuation	48.1	68.3	83.9	119.4	138.4	155.2	173.4	210.2	257.1	319.2	359.2		
Avg. Power	506	356	290	204	176	157	140	116	95	76	68		
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$													
K1=1.507808, K2=0.000440													
Connectors Options													
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)							
2.4 mm (2)	50 GHz	1.30:1		N(N)	18 GHz	1.25:1							
2.92 mm (K)	40 GHz	1.30:1											
3.5 mm (3)	27 GHz	1.30:1											
SMA (S)	27 GHz	1.25:1											
SSMA (M)	40 GHz	1.30:1											

Cable Assemblies Naming Rule:

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

Eg.: YSPTC-360C-1M-SM-SF means YSPTC-360C cable, L=1M, SMA(M)-SMA(F).

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