

YSLL-233L

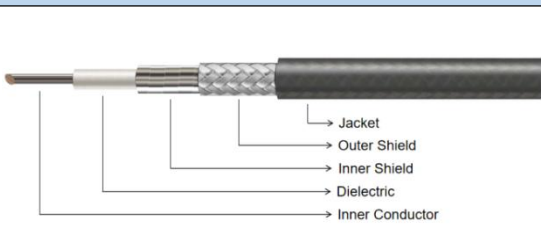
40 GHz, ϕ 2.33 mm Low-Loss RF Cable Assembly

Key Features

- Low Insertion Loss
- High Power Handling
- Low PIM (-155 dBc)
- Excellent RF Performance
- High Reliability

Applications

- Aerospace & Avionics
- Electronic Warfare Systems
- Wireless Base Station Interconnects
- RF & Microwave Testing
- High-Power RF Systems

Cable Construction										
			Cable Type		Dia.(mm)		Material			
			Inner Conductor		ϕ 0.51		Silver plated Copper			
			Dielectric		ϕ 1.52		Low Density PTFE			
			Inner Shield		ϕ 1.70		Silver Plated Copper Strip			
			Outer Shield		ϕ 2.04		Silver Plated Copper Braid			
			Jacket		ϕ 2.33		FEP			
Electrical Specifications					Mechanical Specifications					
Operating Freq.		40 GHz			Static Bending Radius		12 mm			
Cut-off Freq.		71 GHz			Dynamic Bending Radius		23 mm			
Impedance		50 Ω			Weight		16 g/m			
Velocity of Propagation		76%			Environmental Specifications					
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +165°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	40
Attenuation	70.1	99.8	122.9	176.0	204.5	229.9	257.6	314.1	386.8	484.3
Avg. Power	110	77	63	44	38	34	30	25	20	16
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=2.177342, K2=0.001221$										
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		MCX(C)	6 GHz	1.25:1				
SMA (S)	27 GHz	1.25:1								

Cable Assemblies Naming Rule:

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

Eg.: YSLL-233L-1M-SM-SF means YSLL-233L cable, L=1M, SMA(M)-SMA(F).

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