

YSLL-375L

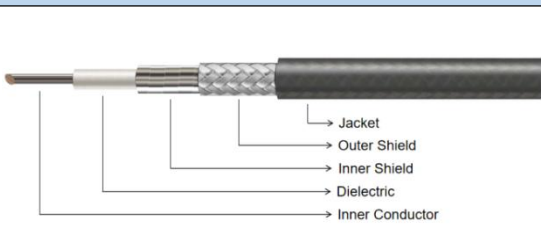
40 GHz, ϕ 3.75 mm Low-Loss RF Cable Assembly

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 0.91		Silver plated Copper			
			Dielectric		ϕ 2.70		Low Density PTFE			
			Inner Shield		ϕ 2.85		Silver Plated Copper Strip			
			Outer Shield		ϕ 3.30		Silver Plated Copper Braid			
			Jacket		ϕ 3.75		FEP			
Electrical Specifications					Mechanical Specifications					
Operating Freq.		40 GHz			Static Bending Radius		19 mm			
Cut-off Freq.		40 GHz			Dynamic Bending Radius		38 mm			
Impedance		50 Ω			Weight		34 g/m			
Velocity of Propagation		76%			Environmental Specifications					
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +165°C			
Dielectric Withstanding Voltage		1500 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	39.4	56.0	68.9	98.2	113.9	127.9	143.0	173.7	212.9	265.0
Avg. Power	753	530	431	302	261	232	208	171	139	112
Typical Cable Attenuation Calculation Formula: $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ $K1=1.232579$, $K2=0.000462$										
Connectors Options										
Connectors	Freq.(Max)	VSWR (Max)			Connectors	Freq.(Max)	VSWR (Max)			
2.92 mm (K)	40 GHz	1.30:1			SMA (S)	27 GHz	1.25:1			
3.5 mm (3)	27 GHz	1.30:1			N(N)	18 GHz	1.25:1			

Cable Assemblies Naming Rule:

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

Eq.: YSLL-375L-1M-SM-SF means YSLL-375L cable, L=1M, SMA(M)-SMA(F).

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