

# YSUFL-360Z

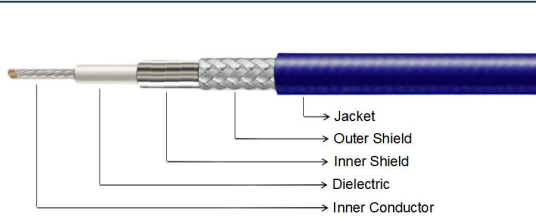
40 GHz,  $\phi$ 3.60 mm Ultra-Flexible Low-Loss RF Cable Assembly

## Key Features

- Multi-Core Ultra-Flexible Construction
- Excellent Mechanical Flexibility
- Harsh Environment Resistance
- Stable RF Performance
- Optimized for Complex Routing

## Applications

- Armored Vehicle Systems
- Tactical Communication Platforms
- Military RF Equipment
- Compact RF Interconnect Systems
- Precision RF Test Applications

Cable Construction										
				Cable Type		Dia.(mm)		Material		
				Inner Conductor		$\phi$ 0.72		Silver plated Copper		
				Dielectric		$\phi$ 2.05		Low Density PTFE		
				Inner Shield		$\phi$ 2.22		Silver Plated Copper Strip		
				Outer Shield		$\phi$ 2.66		Silver Plated Copper Braid		
				Jacket		$\phi$ 3.60		PUR		
Electrical Specifications					Mechanical Specifications					
Operating Freq.		40 GHz			Static Bending Radius		18 mm			
Cut-off Freq.		51 GHz			Dynamic Bending Radius		36 mm			
Impedance		50 $\Omega$			Weight		27 g/m			
Velocity of Propagation		76%			Environmental Specifications					
Shielding Effectiveness		>90 dB			Operating Temperature		-55 to +85°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	51.9	74.4	92.1	133.4	156.0	176.4	198.7	244.9	305.5	388.8
Avg. Power	119	83	67	46	40	35	31	25	20	16
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$										
K1=1.582929, K2=0.001806										
Connectors Options										
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)				
1.85 mm(V)	67 GHz	1.30:1		SMA (S)	27 GHz	1.25:1				
2.4 mm (2)	50 GHz	1.30:1		SSMA (M)	40 GHz	1.30:1				
2.92 mm (K)	40 GHz	1.30:1		N(N)	18 GHz	1.25:1				
3.5 mm (3)	27 GHz	1.30:1								

## Cable Assemblies Naming Rule:

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

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

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