

# YSUFCLL-520GF

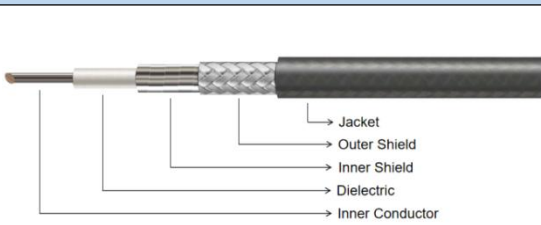
18 GHz,  $\phi$ 5.20 mm Cost-Effective Ultra-Flexible Low-Loss RF Cable Assembly

## Key Features

- Ultra-Flexible Design
- Low VSWR
- Low Insertion Loss
- Excellent Bendability
- High Cost Performance

## Applications

- Cabinet Interconnections
- Base Station Jumper Cables
- Compact RF Systems
- Indoor RF Routing
- Flexible RF Installations

Cable Construction									
			Cable Type		Dia.(mm)		Material		
			Inner Conductor		$\phi$ 1.45		Silver plated Copper		
			Dielectric		$\phi$ 4.10		Low Density PTFE		
			Inner Shield		$\phi$ 4.20		Bonded Aluminum Foil		
			Outer Shield		$\phi$ 4.65		Silver-Plated Copper Wire		
			Jacket		$\phi$ 5.20		FEP		
Electrical Specifications					Mechanical Specifications				
Operating Freq.		18 GHz			Static Bending Radius		26 mm		
Cut-off Freq.		25 GHz			Dynamic Bending Radius		52 mm		
Impedance		50 $\Omega$			Weight		54 g/m		
Velocity of Propagation		76%			Environmental Specifications				
Shielding Effectiveness		>70 dB			Operating Temperature		-55 to +125°C		
Dielectric Withstanding Voltage		2000 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	16	18
Attenuation	32.9	47.1	58.3	84.4	98.6	111.4	125.4	144.6	154.4
Avg. Power	801	559	452	312	267	236	210	182	171
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=1.005200, K2=0.001088$									
Connectors Options									
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)			
SMA (S)	27 GHz	1.25:1		N(N)	18 GHz	1.25:1			

## Cable Assemblies Naming Rule:

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

Eg.: YSUFCLL-520GF-1M-SM-SF means YSUFCLL-520GF cable, L=1M, SMA(M)-SMA(F).

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