YSUFLL-600Z

26.5 GHz, φ6.00 mm Ultra-Flexible Low-Loss RF Cable Assembly

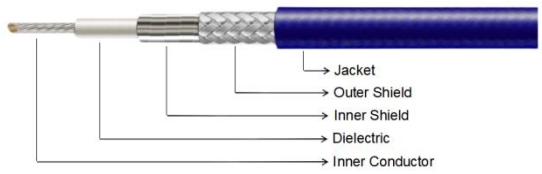
Key Features

- 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	φ1.44	Silver plated Copper
Dielectric	φ4.15	Low Density PTFE
Inner Shield	φ4.35	Silver Plated Copper Strip
Outer Shield	φ4.80	Silver Plated Copper Braid
Jacket	φ6.00	PUR

Electrical Specifications		**Mechanical Specifications**	
Operating Freq.	26.5 GHz	Static Bending Radius	30 mm
Cut-off Freq.	29.5 GHz	Dynamic Bending Radius	60 mm
Impedance	50 Ω	Weight	72 g/m
Velocity of Propagation	76%	**Environmental Specifications**	
Shielding Effectiveness	>90 dB	Operating Temperature	-55 to +85°C
Dielectric Withstanding Voltage	1800 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
Attenuation	28.7	41.2	50.9	73.6	86.0	97.1	109.2	134.3	167.2
Avg. Power	175	122	99	68	59	52	46	37	30

Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)} + K2*F(MHz)$
K1=0.880600, K2=0.000900

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.: YSUFLL-600Z-*1M-SM-SF* means YSUFLL-600Z cable,L=1M, SMA(M)-SMA(F).

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