YSLL-635L

18 GHz, φ6.35 mm Low-Loss RF Cable Assembly

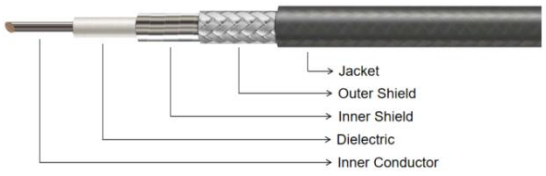
Key Features

- 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	φ1.57	Silver plated Copper
Dielectric	φ4.72	Low Density PTFE
Inner Shield	φ4.90	Silver Plated Copper Strip
Outer Shield	φ5.50	Silver Plated Copper Braid
Jacket	φ6.35	FEP

Electrical Specifications		**Mechanical Specifications**	
Operating Freq.	18 GHz	Static Bending Radius	32 mm
Cut-off Freq.	23 GHz	Dynamic Bending Radius	63 mm
Impedance	50 Ω	Weight	94 g/m
Velocity of Propagation	76%	**Environmental Specifications**	
Shielding Effectiveness	>90 dB	Operating Temperature	-55 to +165°C
Dielectric Withstanding Voltage	2500 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
Attenuation	21.4	30.6	37.9	54.6	63.7	71.8	80.7	99.0
Avg. Power	1019	712	577	400	343	304	271	220

Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)} + K2*F(MHz)$
K1=0.658847, K2=0.000591

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.: YSLL-635L-*1M-SM-SF* means YSLL-635L cable,L=1M, SMA(M)-SMA(F).

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