YSCLL-520G

18 GHz, φ5.20 mm Cost-Effective Low-Loss RF Cable Assembly

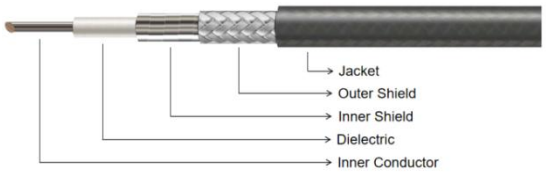
Key Features

- Low VSWR
- Low Insertion Loss
- Cost-Effective Solution
- Stable RF Performance
- Flexible Installation

Applications

- Cabinet Interconnections
- Communication Base Stations
- RF Distribution Systems
- Wireless Communication
- General RF Applications

Cable Construction



Cable Type	Dia.(mm)	Material
Inner Conductor	φ1.45	Silver plated Copper
Dielectric	φ4.20	Low Density PTFE
Inner Shield	φ4.32	Bonded Aluminum Foil
Outer Shield	φ4.65	Silver-Plated Copper Wire
Jacket	φ5.20	FEP

Electrical Specifications		**Mechanical Specifications**	
Operating Freq.	18 GHz	Static Bending Radius	26 mm
Cut-off Freq.	28 GHz	Dynamic Bending Radius	52 mm
Impedance	50 Ω	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	23.8	34.3	42.6	62.1	72.9	82.7	93.4	108.2	115.9
Avg. Power	1038	720	580	397	339	299	264	228	213

Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)} + K2*F(MHz)$
K1=0.718000, 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.: YSCLL-520G-*1M-SM-SF* means YSCLL-520G cable,L=1M, SMA(M)-SMA(F).

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