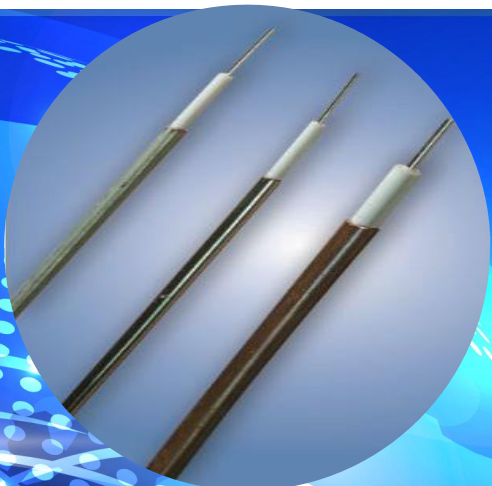


GL Series Low-Loss Semi-Rigid RF Coaxial Cable

08



GL SERIES: LOW-LOSS SEMI-RIGID RF COAXIAL CABLE

This cable combines low signal attenuation, lightweight construction, high power handling, and exceptional temperature-phase stability, engineered for precision RF applications.

Cable Structure: Center Conductor: Silver-plated copper for superior conductivity and corrosion resistance. Dielectric: Advanced low-density PTFE (Polytetrafluoroethylene) wrapped design, replacing solid-core PTFE to reduce weight while maintaining electrical integrity. Outer Conductor: Seamless copper tube ensuring 100% shielding coverage and mechanical rigidity. **Connector Compatibility:** Standard semi-rigid interfaces (e.g., SMA, 2.92mm, 1.85mm).

Typical Applications

- Test & Measurement
- System Interconnects
- Instrumentation

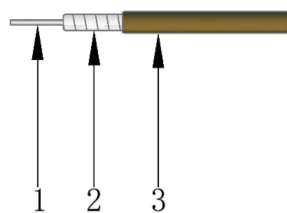
Product Features

- Operating frequency up to 50GHz
- Low Loss
- High Power Capacity
- Temperature-Phase Stability
- Weight Reduction

Equivalent Cable Replacement Table

Talent Model	Replacement Model	Replacement Brand
GL2	CLL50086	TIMES
	UT-085-LL	MCC
GL3	CLL50141	TIMES
	UT-141-LL	MCC



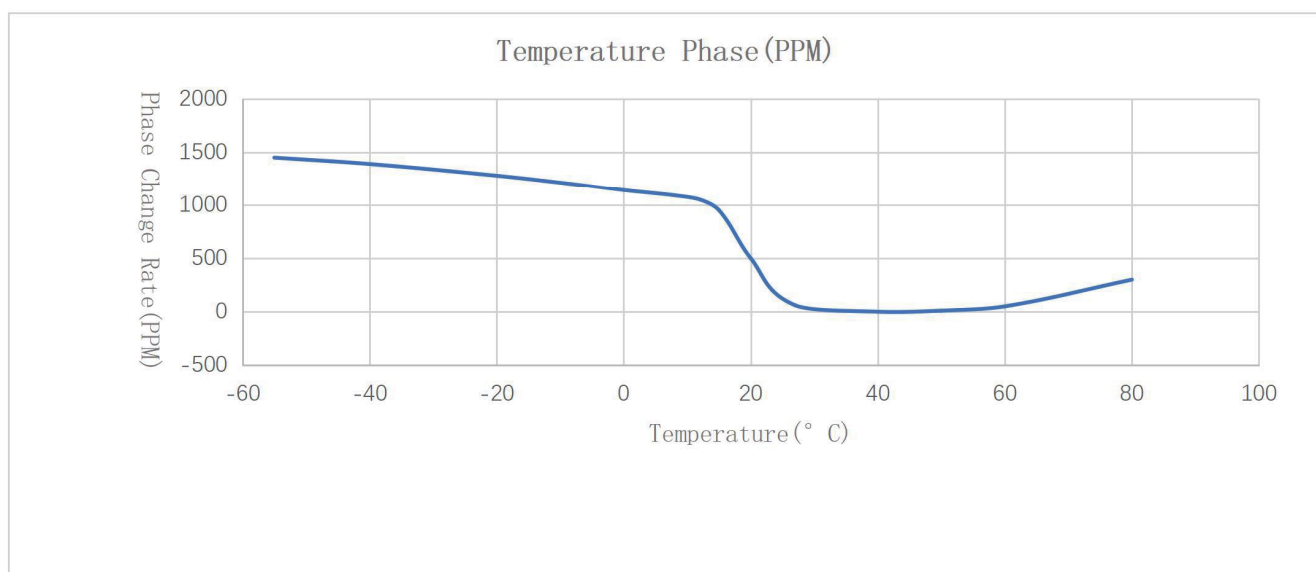
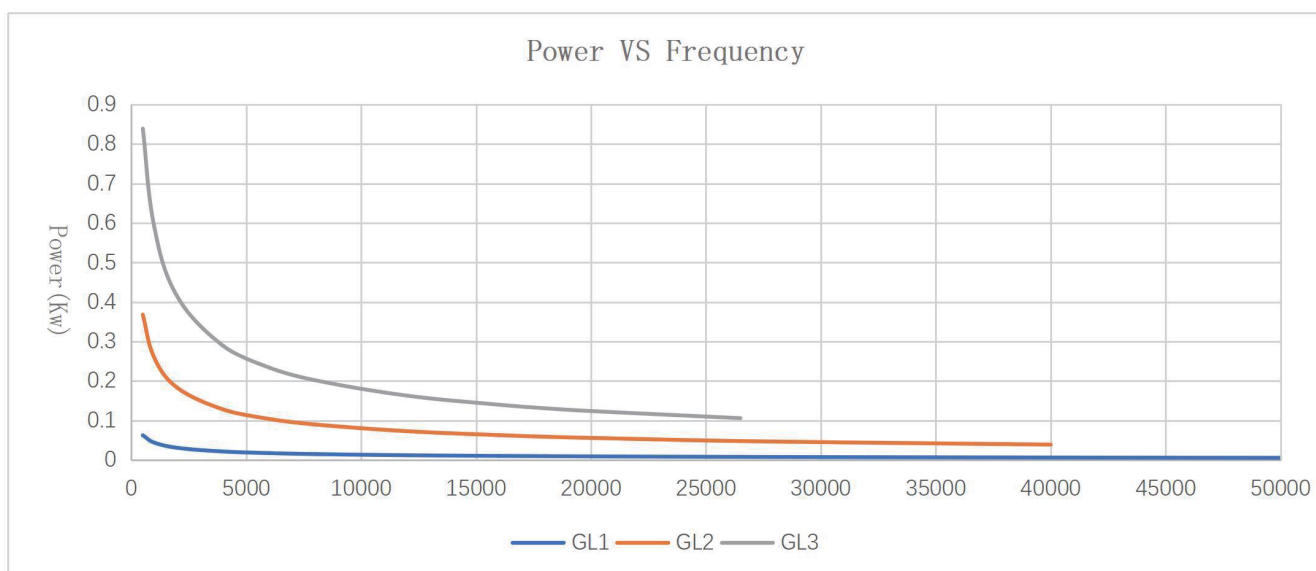
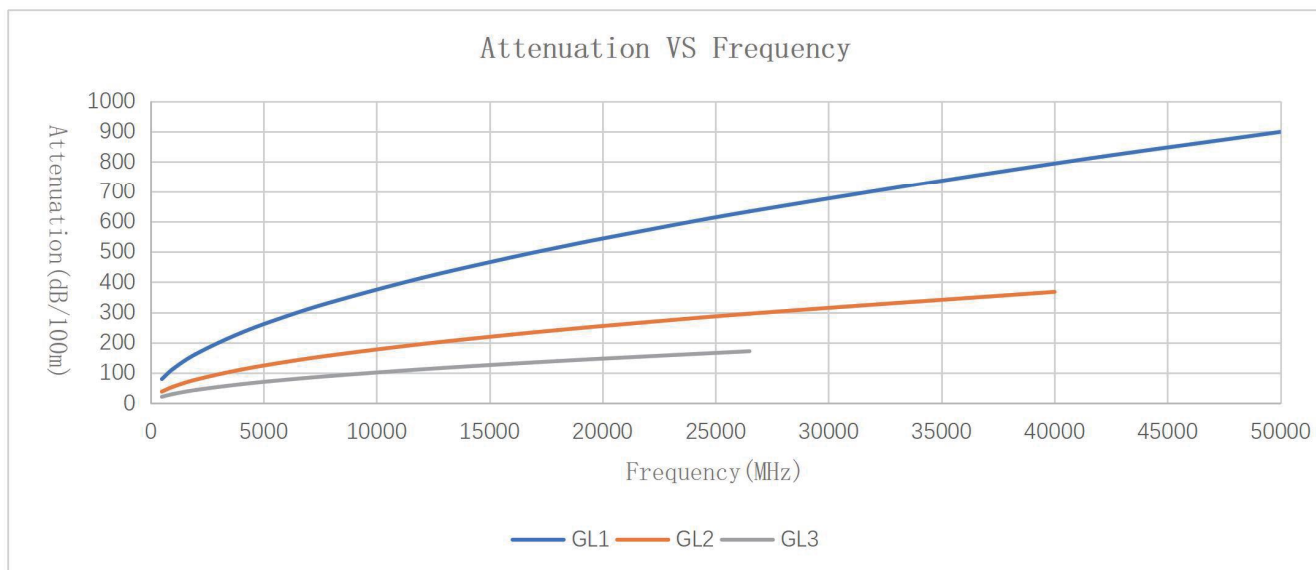


- 1-Center Conductor——SPC
2-Dielectric——PTFE
3-Outer Conductor——SPC/Ternary alloy

► Cable Specification

Model	GL1		GL2		GL3	
Mechanical Specifications						
Center Conductor	0.31		0.56		0.99	
Dielectric	0.94		1.68		3.00	
Outer Conductor	1.19		2.18		3.58	
Electrical Specifications						
Impedance(Ω)	50		50		50	
Velocity of Propagation(%)	76		76		76	
Shielding Effectiveness (dB)	< -165		< -165		< -165	
Time Delay (ns/m)	4.38		4.38		4.38	
Capacitance (pF/m)	86.8		87.6		86.8	
Cut-off Frequency(GHz)	116		65		36	
Voltage Withstand(V,DC)	250		450		800	
Static Bending Radius (mm)	4		7		13	
Operating Temperature (°C)	-55~250		-55~250		-55~250	
Attenuation(+25°C Ambient)&Power Handling(+40°C Ambient;SeaLevel;VSWR 1:1)						
Frequency (MHz)	dB/100m	KW	dB/100m	KW	dB/100m	KW
500	80.28	0.063	38.80	0.368	21.78	0.839
1000	114.17	0.044	55.04	0.259	30.98	0.590
2000	162.72	0.031	78.19	0.183	44.16	0.414
4000	232.65	0.022	111.27	0.128	63.14	0.289
6000	287.31	0.018	136.93	0.104	77.98	0.234
8000	334.06	0.015	158.74	0.090	90.68	0.201
12000	413.89	0.012	195.72	0.073	112.36	0.163
16000	482.53	0.010	227.26	0.063	131.01	0.140
18000	514.02	0.010	241.65	0.059	139.56	0.131
20000	544.04	0.009	255.33	0.056	147.72	0.124
26500	633.73	0.008	295.96	0.048	172.09	0.106
40000	794.63	0.006	368.00	0.039		
50000	899.79	0.006				
K1	3.5422442		1.72200		0.96104	
K2	0.0021545		0.00059		0.0005904	

► Test Data



The diagram illustrates a cable tree structure. At the top left, a node labeled 'GL' is connected to a series of nodes. The first node is a square, followed by a horizontal line, then three more squares, another horizontal line, two more squares, a third horizontal line, and finally two more squares. Below the first square, a vertical line descends to a horizontal line, which is labeled 'Cable Type'. Below the three squares after the first horizontal line, a vertical line descends to a horizontal line, which is labeled 'Phase match'. Below the two squares after the second horizontal line, a vertical line descends to a horizontal line, which is labeled 'Phase match'. Below the final two squares, a vertical line descends to a horizontal line, which is labeled 'Phase match'.

$$XX^{\circ} \cong \pm XX^{\circ}$$

- 1
- 2
- 3

Type

The coding is shown in the table below

Length

Unit of lengt

M:Meter

IN:Inch

Connector Code	Connector Type	Operating Frequency	GL1	GL2	GL3	VSWR (Max)
1.0M	1.0mm Male	DC-110GHz	●			1.50
1.0F	1.0mm Female	DC-110GHz	●			1.50
1.85M	1.85mm Male	DC-67GHz	●	●		1.30
1.85F	1.85mm Female	DC-67GHz	●	●		1.30
2.4M	2.4mm Male	DC-50GHz	●	●		1.30
2.92M	2.92mm Male	DC-40GHz	●	●		1.30
2.92F	2.92mm Female	DC-40GHz	●	●		1.30
SSMAM	SSMA Male	DC-40GHz		●		1.30
3.5M	3.5mm Male	DC-27GHz		●	●	1.30
SMAM	SMA Male	DC-27GHz		●	●	1.25
SMAF	SMA Female	DC-27GHz		●		1.25
NM	N Male	DC-18GHz		●	●	1.25
NF	N Female	DC-18GHz		●	●	1.25
TNCM	TNC Male	DC-12GHz		●		1.25
SMPF	SMP Female	DC-40GHz		●		1.25
SSMPF	SSMP Female	DC-40GHz		●		1.25