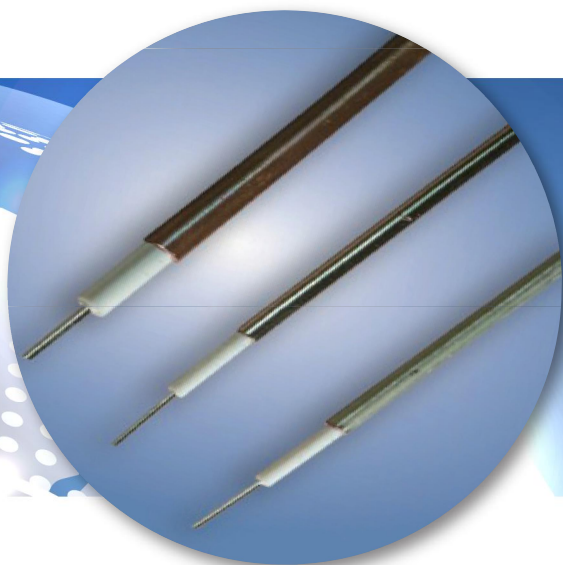


GL Series 08

Low Loss Semi-Rigid Coax Cable



INTRODUCTION

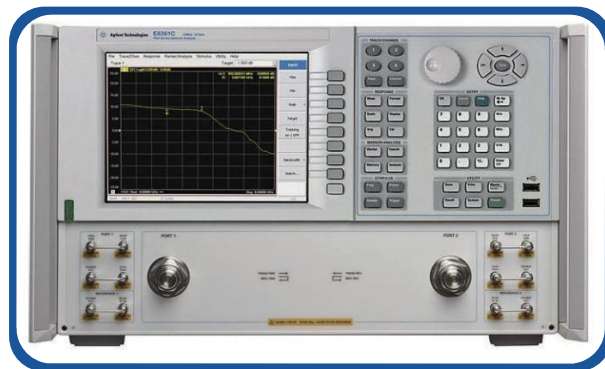
GL series features low loss, light weight, high power handling and excellent temperature phase. The central conductor is made of silver plated copper. It utilizes advanced low density PTFE dielectric to replace traditional solid PTFE dielectric. The outer conductor is made of seamless copper tube and uses the same connector as semi-rigid cable. It is mainly used in test measurement, system interconnection and instrumentation.

Typical Application

- Aerospace
- Plate-to-plate connection
- Instrumentation and card interconnection
- Feed network
- Cabinet jumper

Features

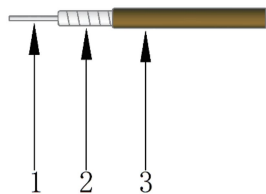
- Ultra-low loss
- Light weight
- High power handling
- High temperature resistance
- Good temperature and phase stability



Replacement Table

Talent Model	Replacement Model	Replacement Brand
GL2	086 CLL50086	TIMES
	UT-085-LL	MCC
GL3	CLL50141	TIMES
	UT-141-LL	MCC



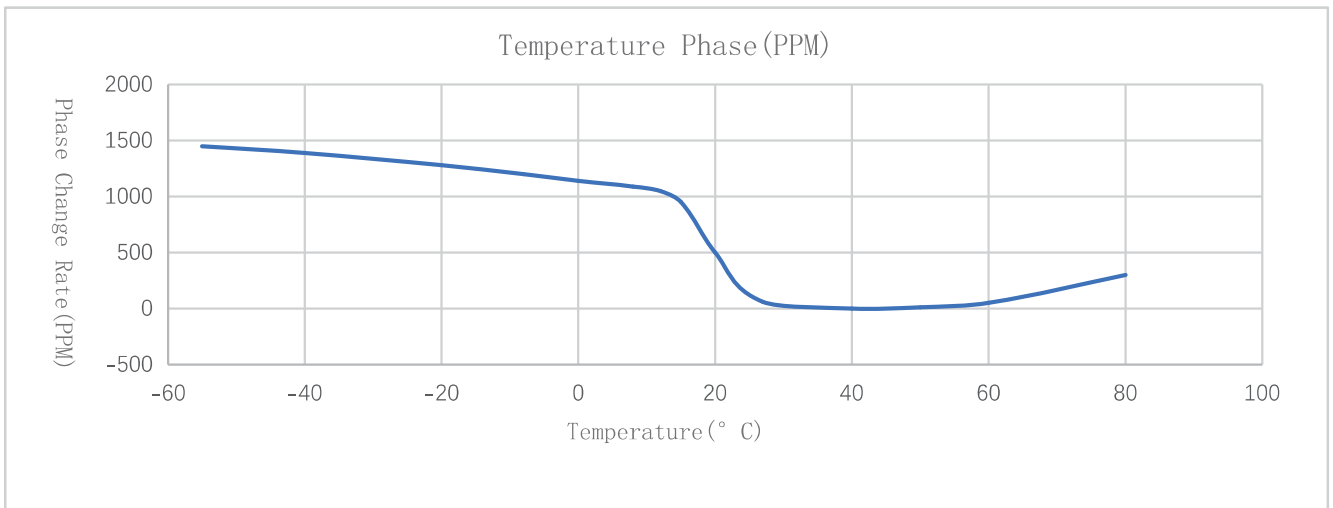
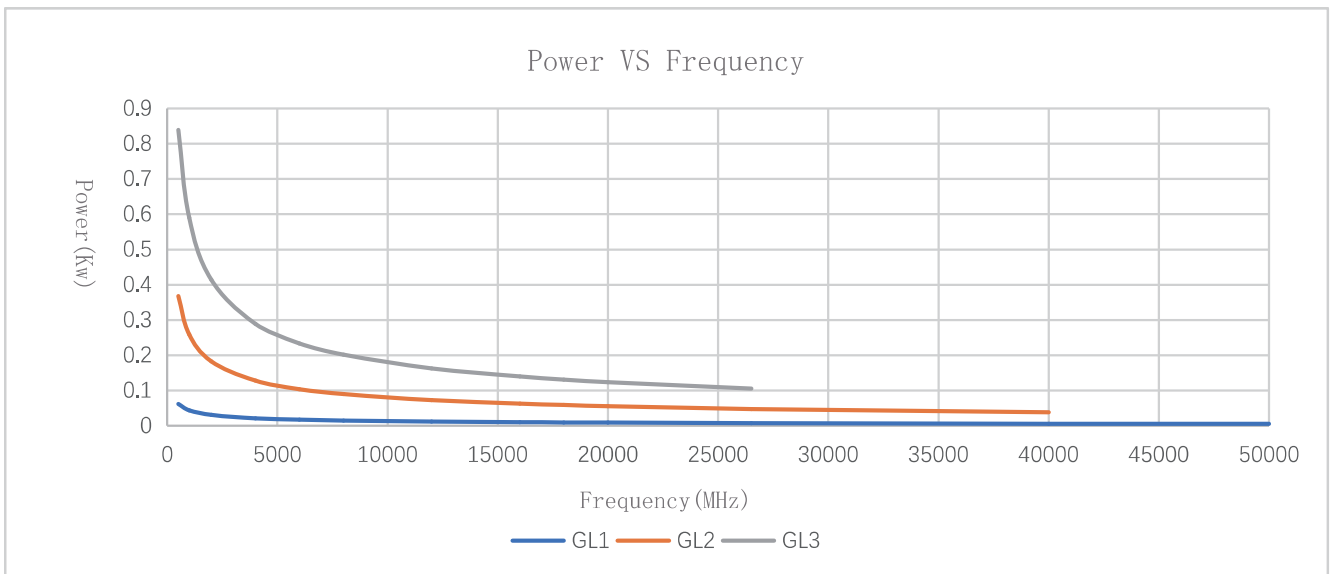
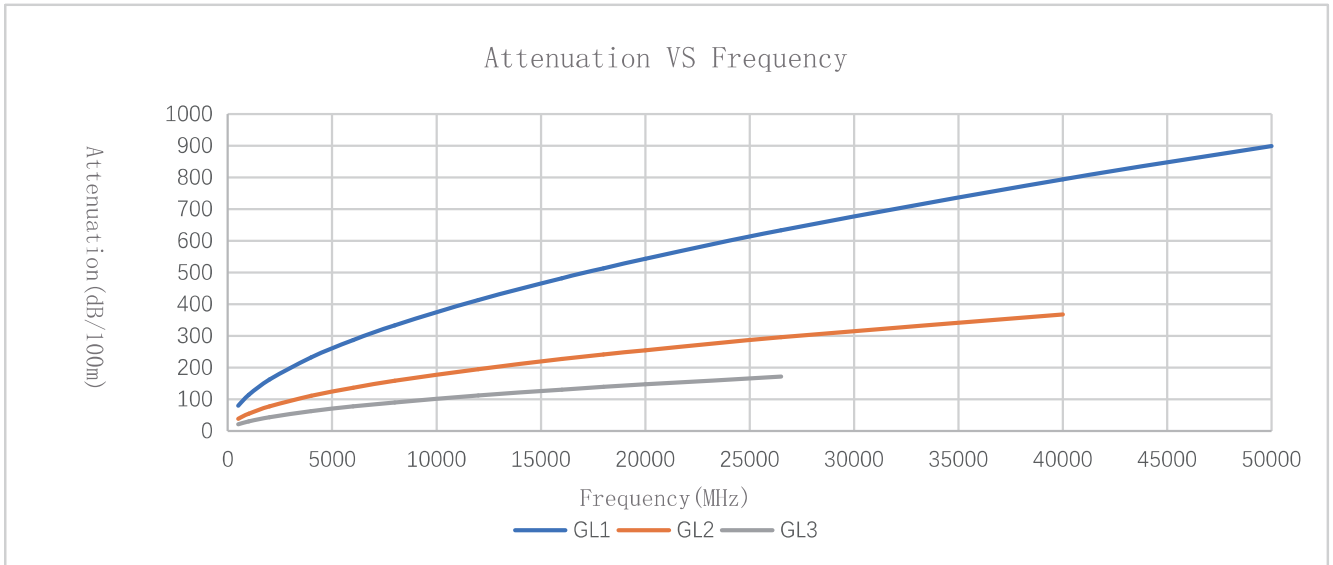


1—Center Conductor——SPC(Silver Plated Copper)
2—Dielectric——PTFE
3—Out conductor——Copper/Ternary Alloy

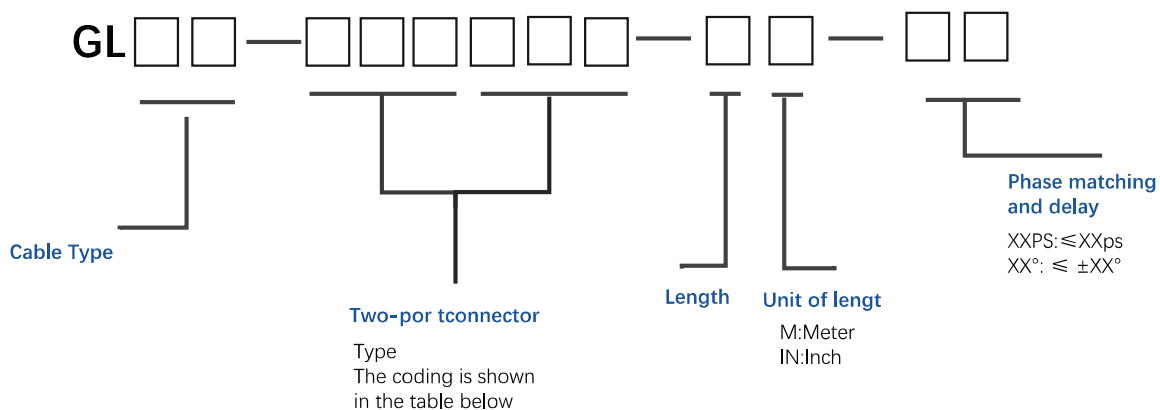
Cable Specification

Model	GL1		GL2		GL3	
Mechanical Specifications						
Center Conductor (mm)	0.31		0.56		0.99	
Dielectric (mm)	0.94		1.68		3.00	
Outer Conductor (mm)	1.19		2.18		3.58	
Electrical Specifications						
Impedance(Ω)	50		50		50	
Velocity of Propagation(%)	76		76		76	
Shielding Effectiveness (dB)	< -120		< -120		< -120	
Time Delay (ns/m)	4.39		4.39		4.39	
Capacitance (pF/m)	87.5		87.5		87.5	
Cut-off Frequency(GHz)	116		65		36	
Voltage Withstand(V,DC)	300		600		1300	
Static Bending Radius (mm)	4		7		13	
Operating Temperature ($^{\circ}\text{C}$)	-55~200		-55~200		-55~200	
Attenuation(+25$^{\circ}\text{C}$ Ambient)&Power Handling(+40$^{\circ}\text{C}$ Ambient;SeaLevel;VSWR 1:1)						
Frequency (MHz)	dB/100m KW		dB/100m KW		dB/100m KW	
500	80.28 0.0626		38.80 0.368		21.78 0.839	
1000	114.17 0.0440		55.04 0.259		30.98 0.590	
2000	162.72 0.0309		78.19 0.183		44.16 0.414	
4000	232.65 0.0216		111.27 0.128		63.14 0.289	
6000	287.31 0.0175		136.93 0.104		77.98 0.234	
8000	334.06 0.0150		158.74 0.090		90.68 0.202	
12000	413.89 0.0121		195.72 0.073		112.36 0.163	
16000	482.53 0.0104		227.26 0.063		131.01 0.140	
18000	514.02 0.0098		241.65 0.059		139.56 0.131	
20000	544.04 0.0092		255.33 0.056		147.72 0.124	
26500	633.73 0.0079		295.96 0.048		172.09 0.106	
40000	794.63 0.0063		368.00 0.039			
50000	899.79 0.0056					
K1	3.5422442		1.72200		0.96104	
K2	0.0021545		0.00059		0.0005904	

Test Data



Assembly Selection Information



Optional Connectors

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