

BLE CABLE

- 1—Center Conductor——SPC(Silver Plated Copper)
- 2—Dielectric——PTFE
- 3—Inner Shield——SPC(Silver Plated Copper)
- 4—Outer Shield——SPC(Silver Plated Copper)
- 5—Jacket——FEP

CABLE SPECIFICATION

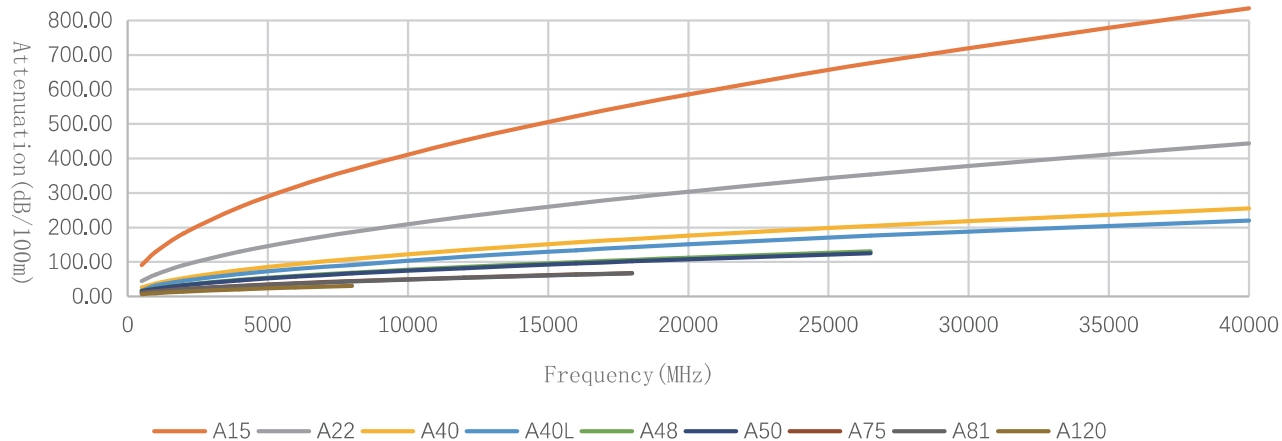
Model	A15		A22		A40L		A40		A48	
Mechanical Specifications										
Center Conductor (mm)	0.29		0.51		1.02		0.91		1.4	
Dielectric (mm)	0.85		1.38		3.0		2.45		3.75	
Inner Shield (mm)	1.01		1.58		3.1		2.66		3.95	
Outer Shield (mm)	1.24		1.9		3.35		3.15		4.35	
Jacket (mm)	1.54		2.2		3.7		3.6		4.8	
Electrical Specifications										
Impedance(Ω)	50		50		50		50		50	
Velocity of Propagation(%)	80		82		83		83		83	
Shielding Effectiveness (dB)	< -90		< -90		< -90		< -90		< -90	
Time Delay (ns/m)	4.16		4.06		4.06		4.01		4.01	
Capacitance (pF/m)	81.7		83		79.8		79.8		81.9	
Cut-off Frequency(GHz)	135		83		46		46		31	
Voltage Withstand(V,DC)	200		350		650		650		1000	
Static Bending Radius (mm)	7		11		18		18		24	
Dynamic Bending Radius (mm)	15		22		36		36		48	
Operating Temperature (°C)	-55~165		-55~165		-55~165		-55~165		-55~165	
Attenuation(+25°C Ambient)&Power Handling(+40°C Ambient;SeaLevel;VSWR 1:1)										
Frequency (MHz)	dB/100m	KW	dB/100m	KW	dB/100m	KW	dB/100m	KW	dB/100m	KW
500	75.73	0.047	44.79	0.079	16.75	0.960	26.40	0.726	16.65	1.243
1000	107.41	0.033	63.70	0.055	31.91	0.511	37.50	0.511	23.67	0.874
2000	152.51	0.023	90.80	0.039	45.45	0.359	53.36	0.359	33.73	0.613
4000	216.90	0.016	129.85	0.027	64.93	0.251	76.10	0.252	48.22	0.429
6000	266.80	0.013	160.37	0.022	80.13	0.203	93.81	0.204	59.54	0.347
8000	309.20	0.012	186.49	0.019	91.15	0.176	108.91	0.157	69.22	0.299
12000	380.99	0.009	231.09	0.015	115.28	0.142	134.60	0.142	85.75	0.241
16000	442.17	0.008	269.46	0.013	134.30	0.122	156.60	0.122	99.96	0.207
18000	470.07	0.008	287.06	0.012	143.02	0.115	166.67	0.115	106.48	0.194
20000	496.57	0.007	303.84	0.012	151.31	0.110	176.25	0.109	112.69	0.184
26500	575.23	0.006	354.00	0.010	176.12	0.093	204.79	0.094	131.24	0.158
40000	714.50	0.005	444.01	0.008	220.51	0.074	255.69	0.075		
50000	804.35	0.004	502.86	0.007						
67000	940.64	0.004	593.24	0.006						
110000	1230.52	0.003								
K1	3.3634		1.975832		0.991550		1.16847		0.734593	
K2	0.0010455		0.001221		0.000555		0.00055		0.00044	

Mode	A50		A75		A81		A120	
Mechanical Specifications								
Center Conductor (mm)	1.45		2.1		2.3		3.80	
Dielectric (mm)	4		5.75		6.25		10.40	
Inner Shield (mm)	4.2		6.07		6.57		10.78	
Outer Shield (mm)	4.7		6.58		7.15		11.35	
Jacket (mm)	5.1		7.50		7.80		12.00	
Electrical Specifications								
Impedance(Ω)	50		50		50		50	
Velocity of Propagation(%)	83		83		83		83	
Shielding Effectiveness(dB)	< -90		< -90		< -90		< -90	
Time Delay (ns/m)	4.01		4.01		4.01		4.01	
Capacitance (pF/m)	79.5		80.1		80.1		80.1	
Cut-off Frequency(GHz)	29		20		18		11	
Voltage Withstand(V,DC)	1100		1600		1700		2900	
Static Bending Radius (mm)	26		38		39		60	
Dynamic Bending Radius (mm)	51		75		78		120	
Operating Temperature (°C)	-55~125		-55~125		-55~125		-55~125	
Attenuation(+25°C Ambient)&Power Handling(+40°C Ambient;SeaLevel;VSWR 1:1)								
Frequency (MHz)	dB/100m	KW	dB/100m	KW	dB/100m	KW	dB/100m	KW
500	16.17	1.243	10.88	2.474	10.37	2.633	6.94	4.372
1000	22.96	0.875	15.43	1.744	14.76	1.850	9.98	3.043
2000	32.66	0.615	21.93	1.227	21.07	1.296	14.42	2.105
4000	46.58	0.431	31.21	0.862	30.18	0.905	21.02	1.444
6000	57.40	0.350	38.42	0.700	37.32	0.732	26.34	1.153
8000	66.66	0.268	44.55	0.604	43.44	0.558	30.98	0.980
12000	82.34	0.244	54.94	0.490	53.93	0.506		
16000	95.78	0.210	63.81	0.422	62.98	0.434		
18000	101.92	0.197	67.86	0.397	67.13	0.407		
20000	107.77	0.186						
26500	125.20	0.161						
K1	0.715987		0.48249		0.45638		0.298565	
K2	0.000328		0.000174		0.000328		0.000535	

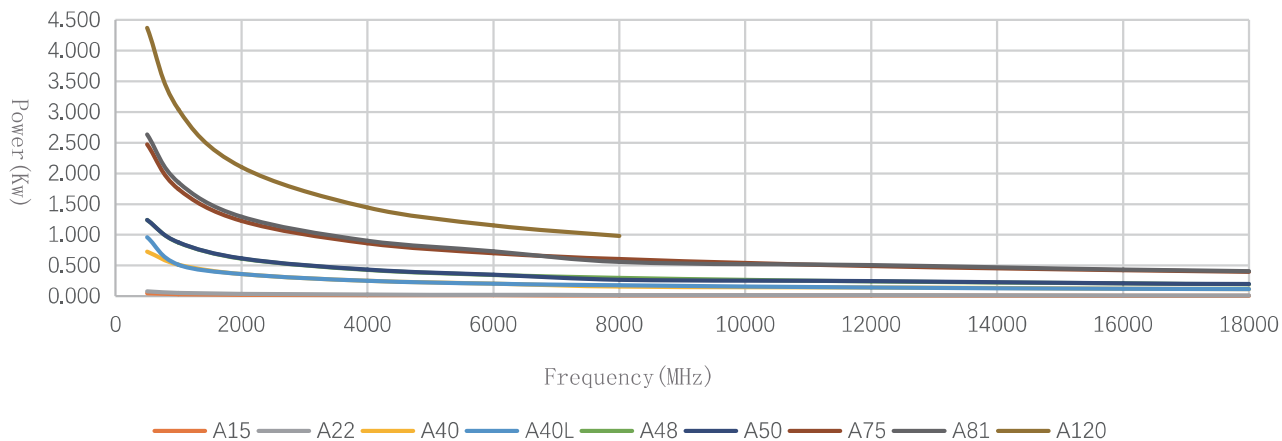


Test Data

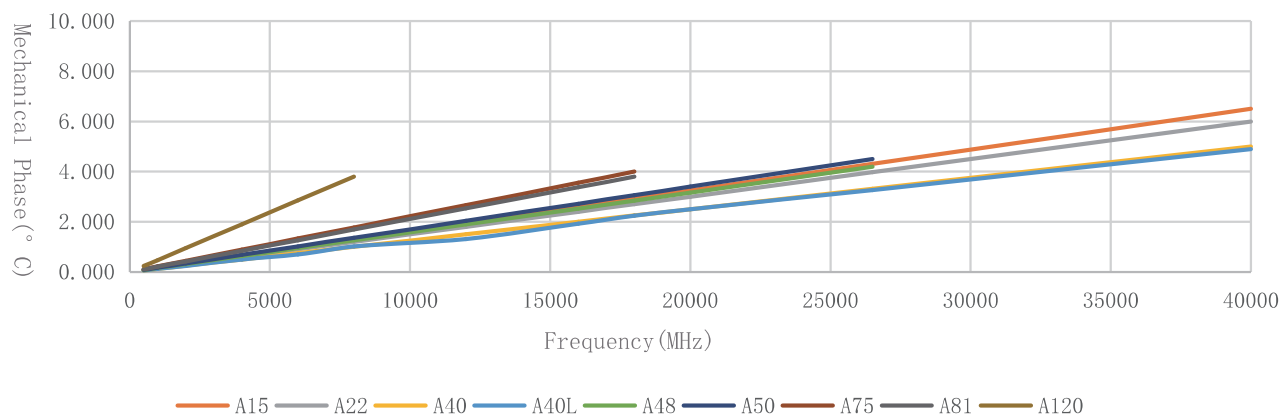
Attenuation VS Frequency

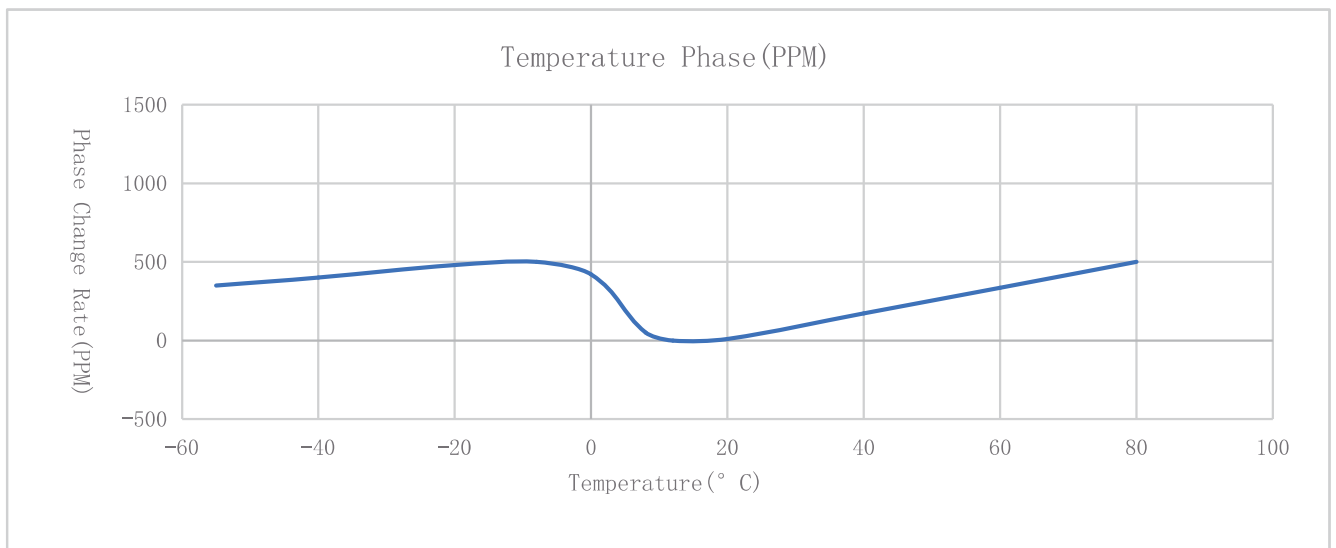
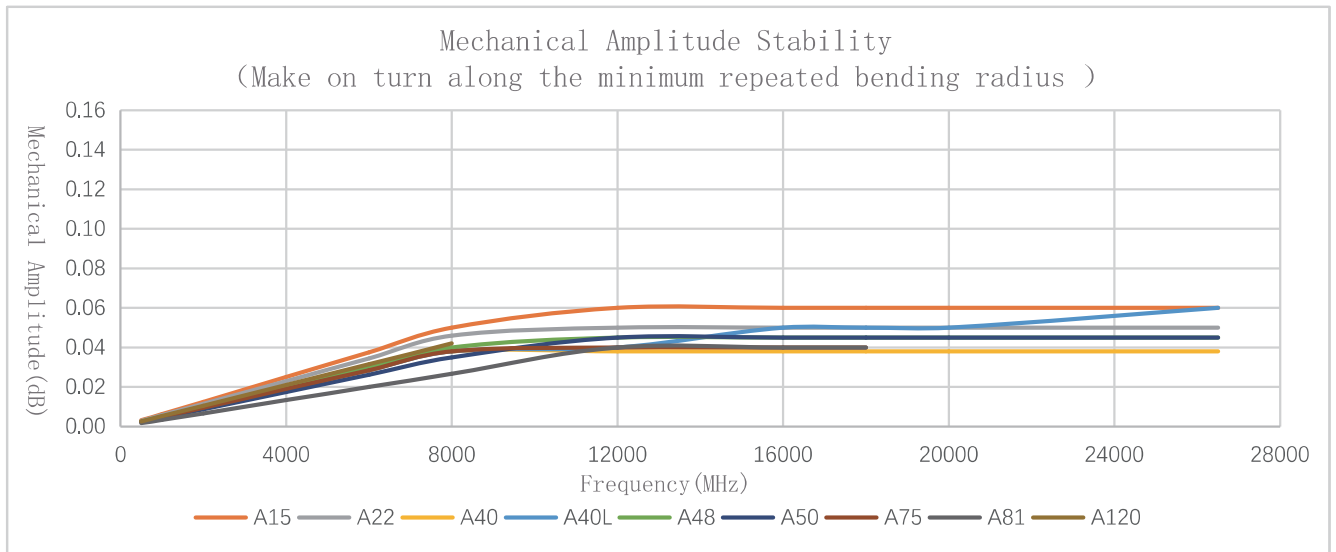


Power VS Frequency

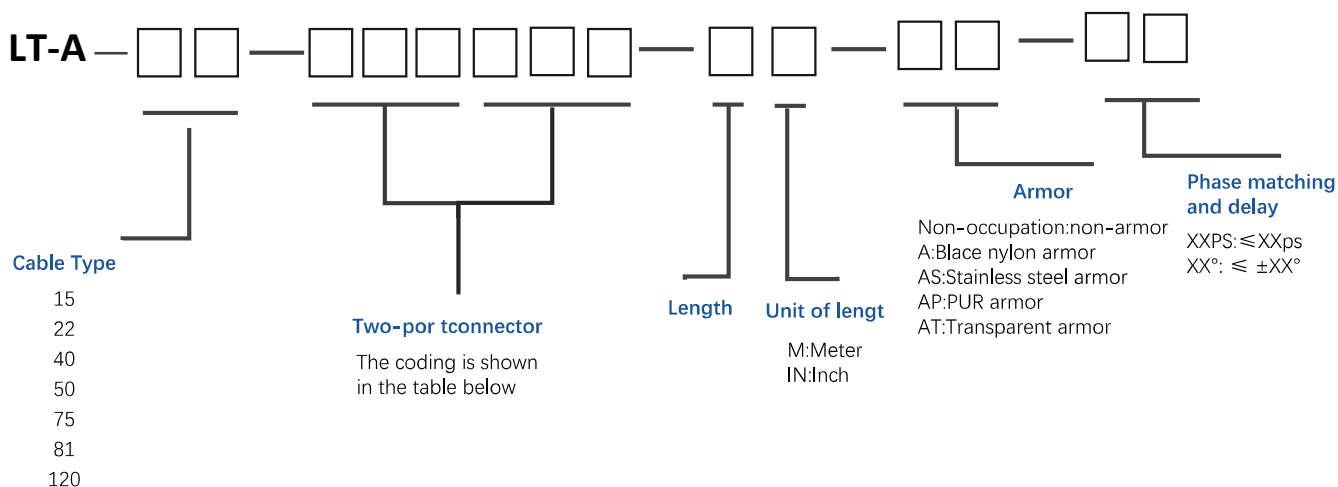


Mechanical Phase Stability (360 degree bend along the repeated bending radius)





Assembly Selection Information



Optional Connectors

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