

A Series HIGH-PERFORMANCE LOW LOSS PHASE STABLE FLEXIBLE CABLE

sales@lauftex.ru | lauftex.ru



The Lauftex A Series is designed to deliver exceptional performance through rigorous production processes and stringent quality control measures. This ensures outstanding electrical and mechanical characteristics across the entire operating frequency range.

Electrical Performance

Signal Transmission Efficiency: Achieves an impressive 83% transmission rate, minimizing signal loss for optimal performance

Phase Stability: Maintains exceptional phase stability with less than 550 PPM variation

Reliable Signal Integrity: Guarantees consistent performance under various operating conditions

Typical Application

- Test cables
- Radar
- Aerospace systems
- Millimeter wave 5G communication
- Lab test

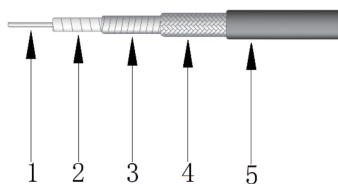
Features

- Operating frequency up to 110GHz
- Extra-low loss
- High power
- High temperature resistance
- Good shielding

Replacement Table

LAUFTEX	Replacement Model	Replacement Brand
A15	CXN3657	GORE
A22	CXN3506	GORE
A40	CXN3507	GORE
	UFB142	MCC
A48	CXN3449	GORE
A50	UFB205A	MCC
A75	CXN3450	GORE
A81	UFB311A	MCC





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

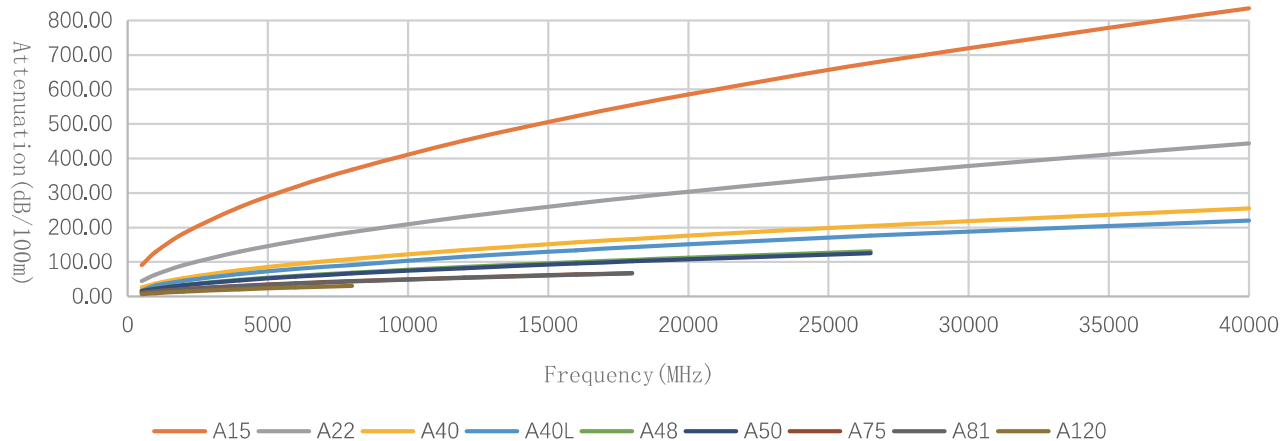
Model	A15		A22		A40L		A40		A48	
Mechanical Specifications										
Center Conductor (mm)	0.29		0.51		1.02		0.91		1.4	
Dielectric (mm)	0.85		1.38		3.0		2.45		3.75	
Inner Shield (mm)	1.01		1.58		3.1		2.66		3.95	
Outer Shield (mm)	1.24		1.9		3.35		3.15		4.35	
Jacket (mm)	1.54		2.2		3.7		3.6		4.8	
Electrical 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	
500	16.17		1.243		10.37		4.372	
1000	22.96		0.875		14.76		3.043	
2000	32.66		0.615		21.07		2.105	
4000	46.58		0.431		30.18		1.444	
6000	57.40		0.350		37.32		1.153	
8000	66.66		0.268		43.44		0.980	
12000	82.34		0.244		53.93			
16000	95.78		0.210		62.98			
18000	101.92		0.197		67.13			
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	

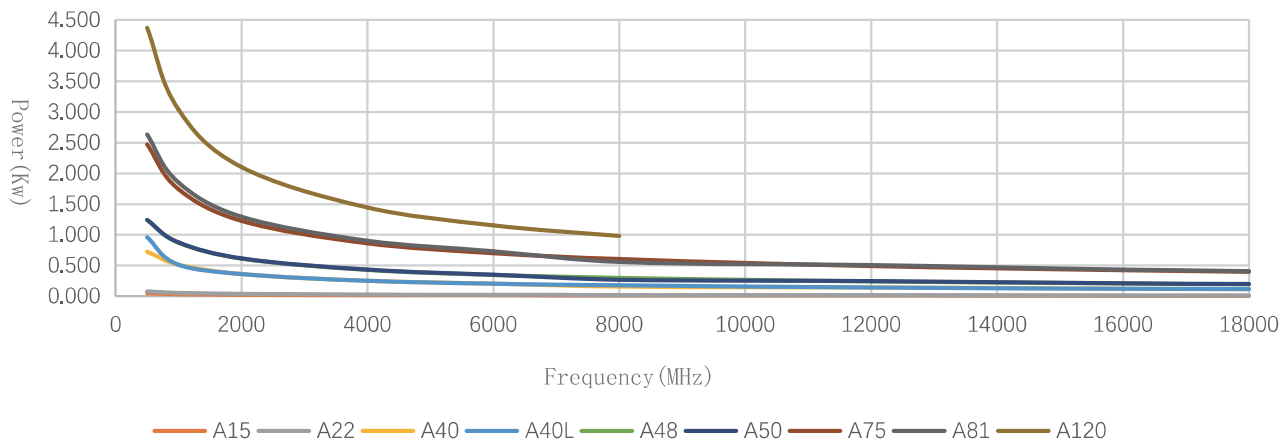


Test Data

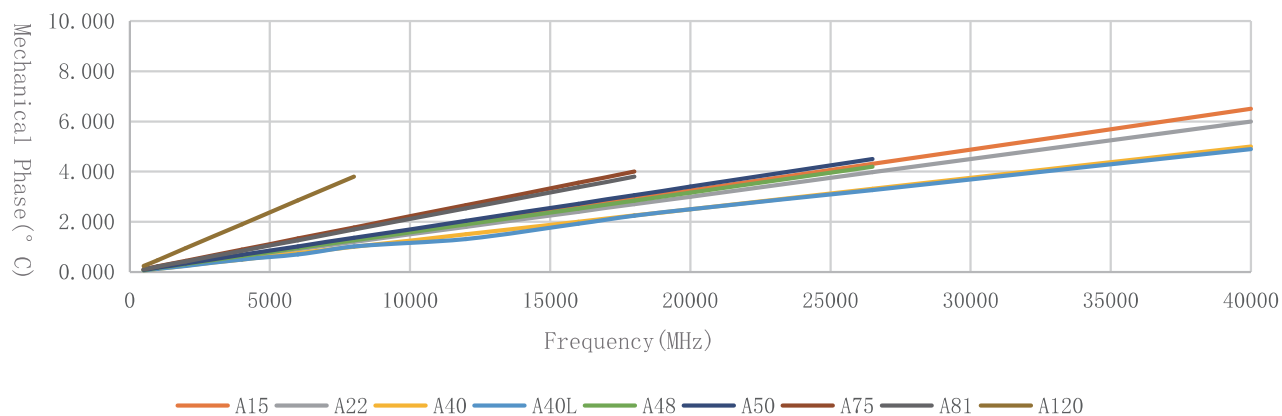
Attenuation VS Frequency

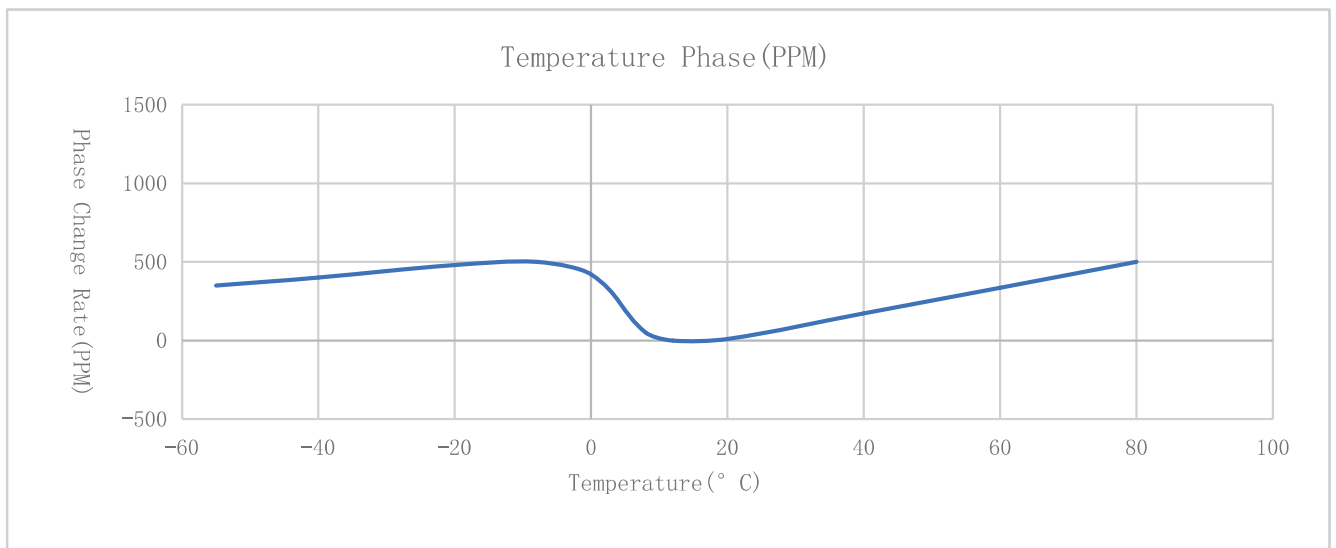
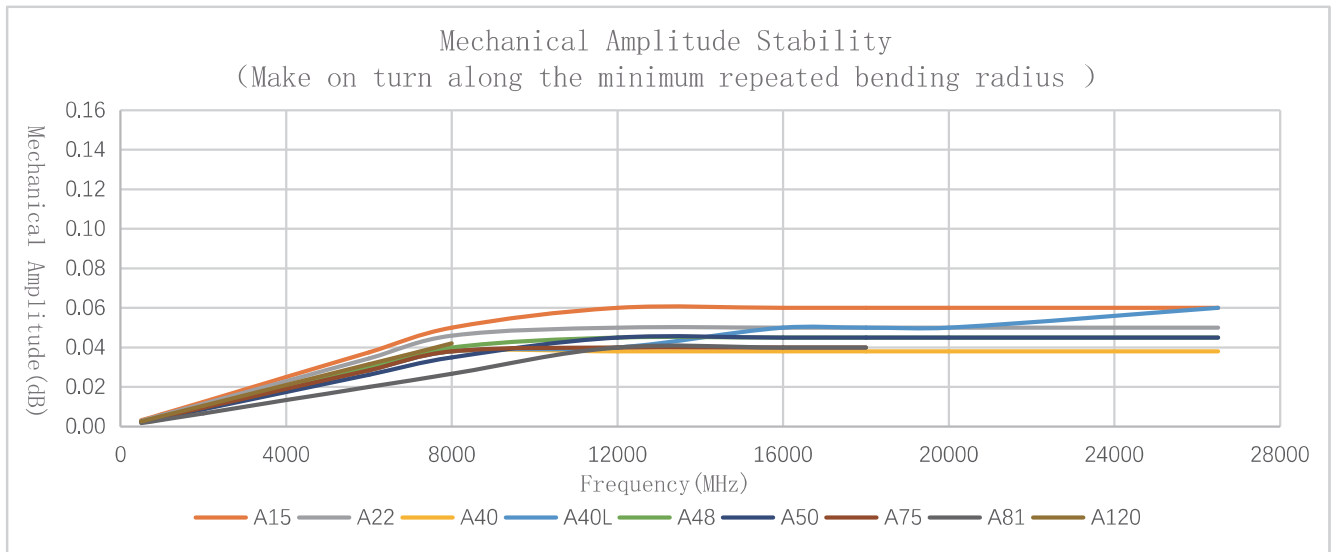


Power VS Frequency

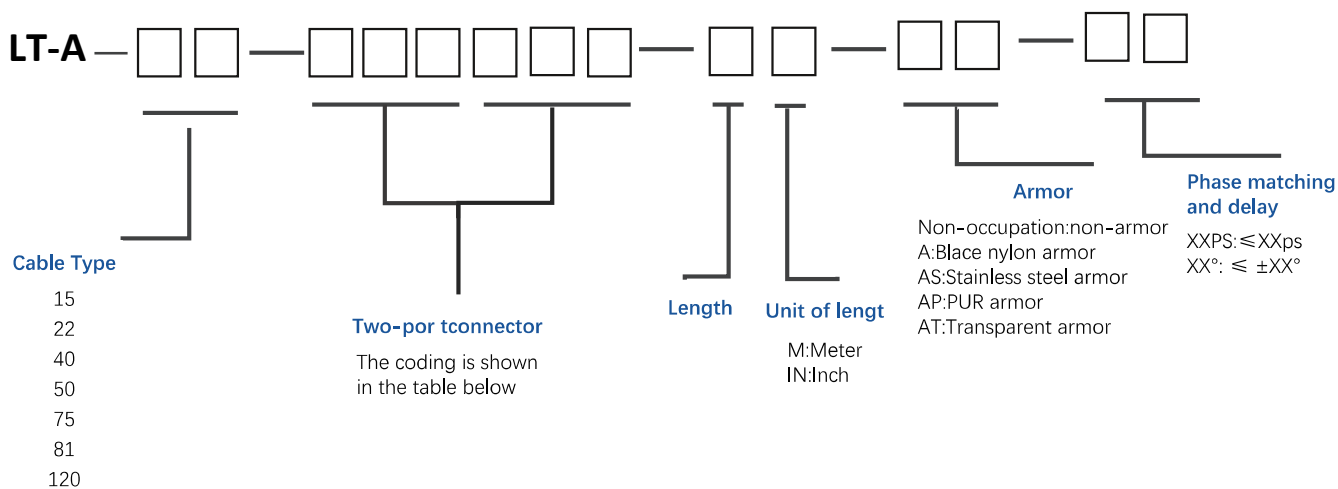


Mechanical Phase Stability (360 degree bend along the repeated bending radius)





Assembly Selection Information



Optional Connectors

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