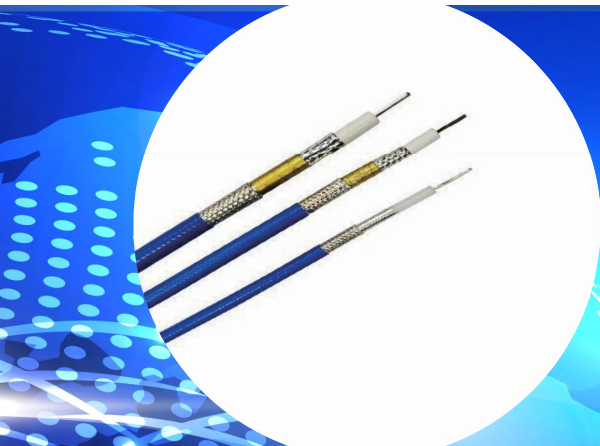


S Series

High-Performance Low-Loss Phase

-Stable RF Cable

02



S SERIES: HIGH-PERFORMANCE LOW-LOSS PHASE-STABLE RF CABLE

This cable incorporates a military-proven structure widely adopted in global defense applications, featuring: Center Conductor: Silver-plated copper for high conductivity and corrosion resistance. Dielectric Core: Low-density PTFE to minimize signal attenuation. Triple-Layer Shielding: Silver-plated copper tape spiral wrap or silver-plated flat wire braid. High-temperature composite aluminum foil shielding. Silver-plated copper wire braid. FEP for extreme durability and environmental protection. This advanced design enhances mechanical stability and extends service life** under harsh operational conditions.

Typical Applications, Aerospace: Avionics in commercial aircraft, radar/communication systems in military fighter jets. Naval Systems: Shipboard electronic warfare (EW), missile launch control. Ground Defense: Armored vehicle signal transmission, unmanned weapon systems.

Equivalent Cable Replacement Table

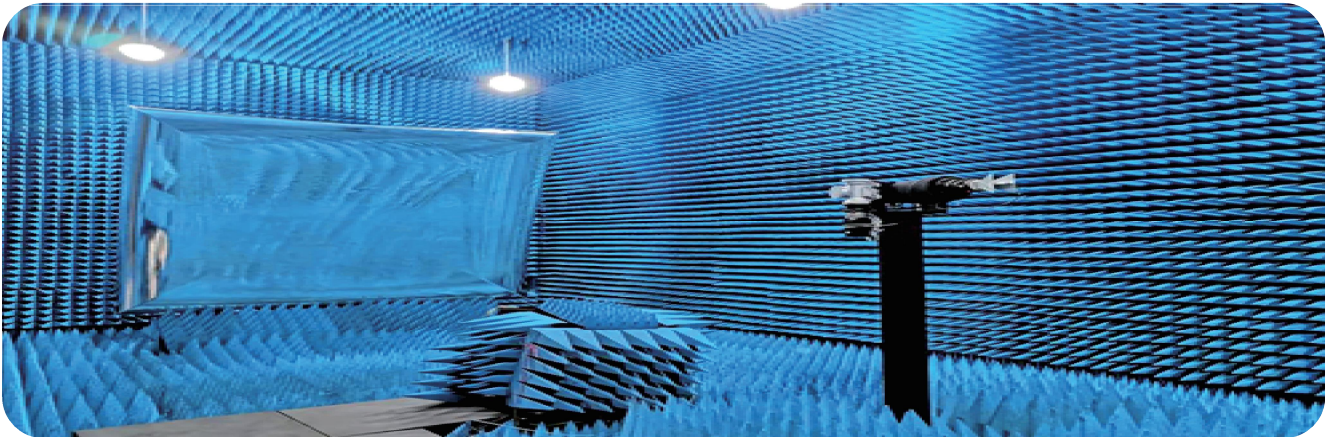
Typical Applications

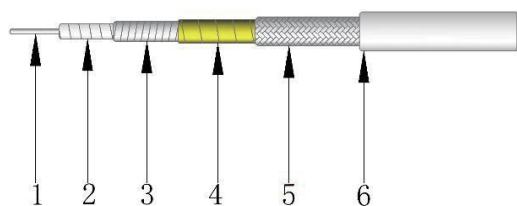
- Aerospace
- Naval Systems
- Ground Defense

Product Features

- Operating frequency up to 50GHz
- Low loss
- Phase Stability
- High Durability And Extended Service Life

Talent Model	Replacement Model	Replacement Brand
S1	SFT-142	TIMES
	32022	ASTROLAB
	HP160S	SEMFLEX
	UFA147A	Micro-coax
	SF-102	Huber+suhner
S2	SFT-205	TIMES
	32055	ASTROLAB
	HP190S	SEMFLEX
	UFA205A	Micro-coax
	SF-104	Huber+suhner
S3	SFT-304	TIMES
	32051	ASTROLAB
	HP305S	SEMFLEX





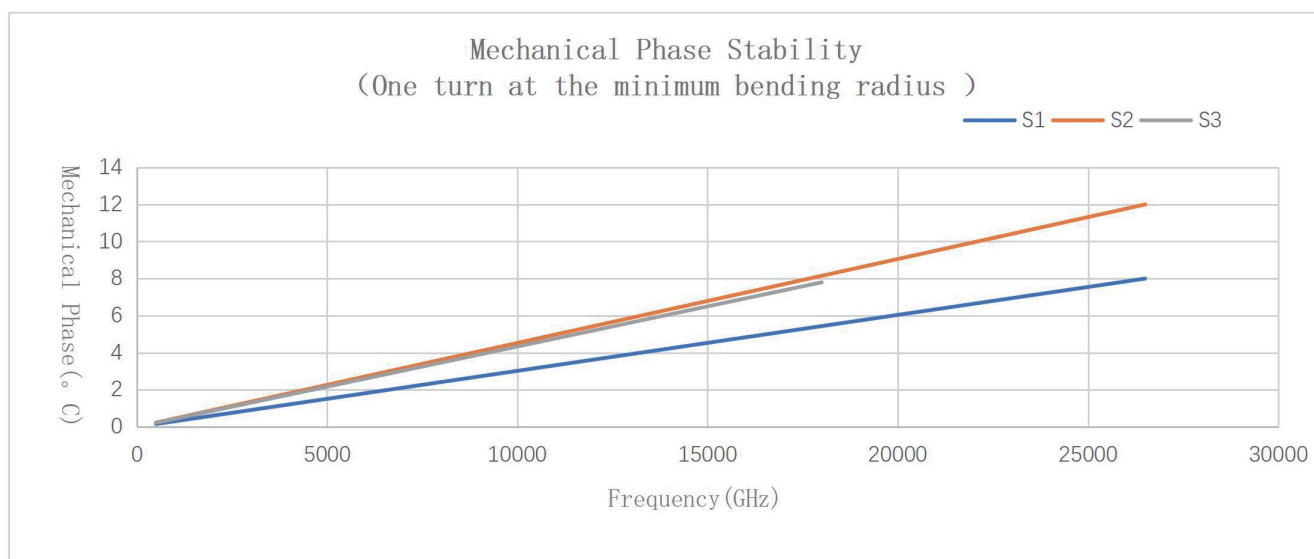
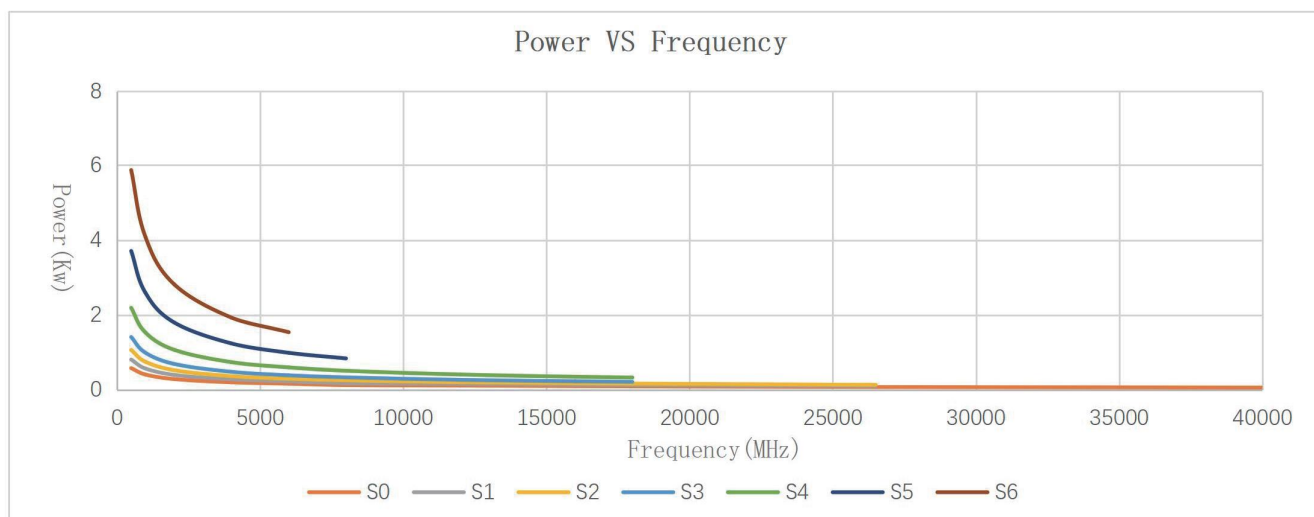
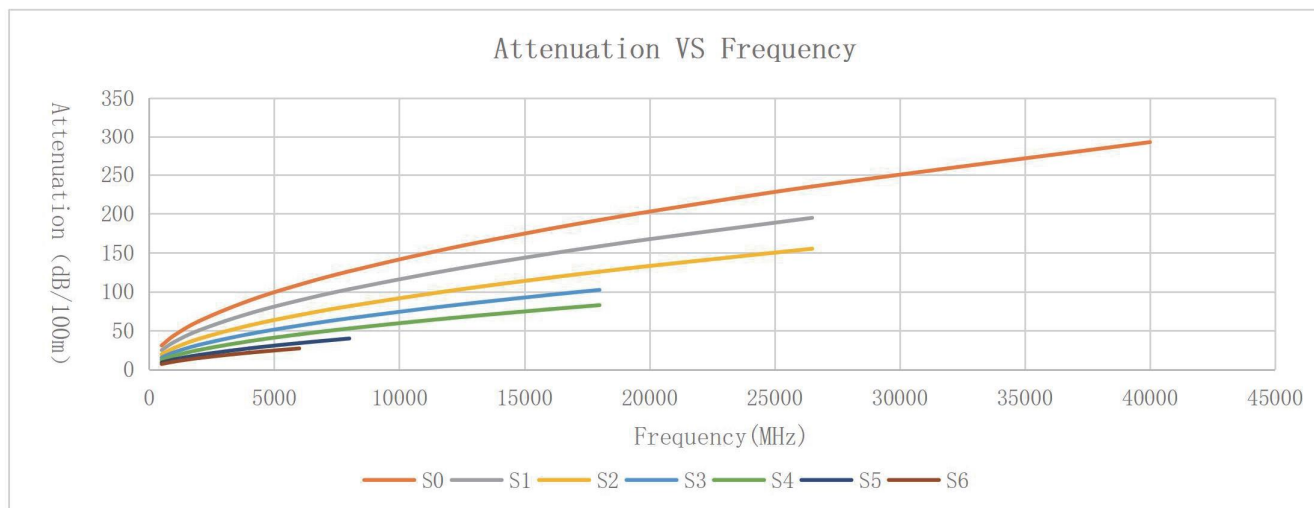
- 1-Center Conductor——SPC
- 2-Dielectric——Low density PTFE
- 3-Outer Conductor——SPC
- 4-Interlayer--PTFE/High Temperature aluminum foil
- 5-Outer Shield——SPC
- 6-FEP Jacket——FEP

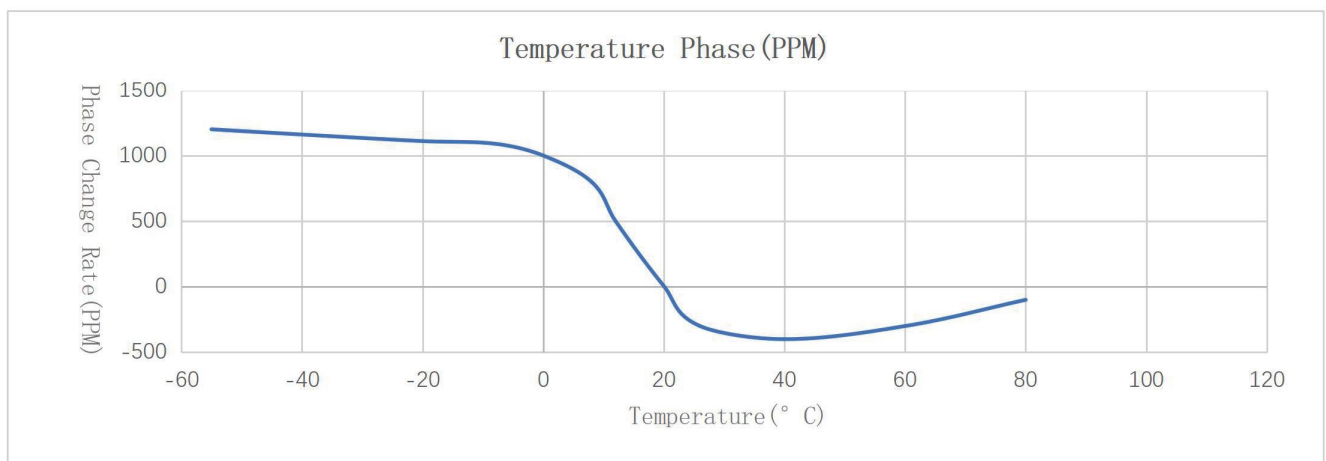
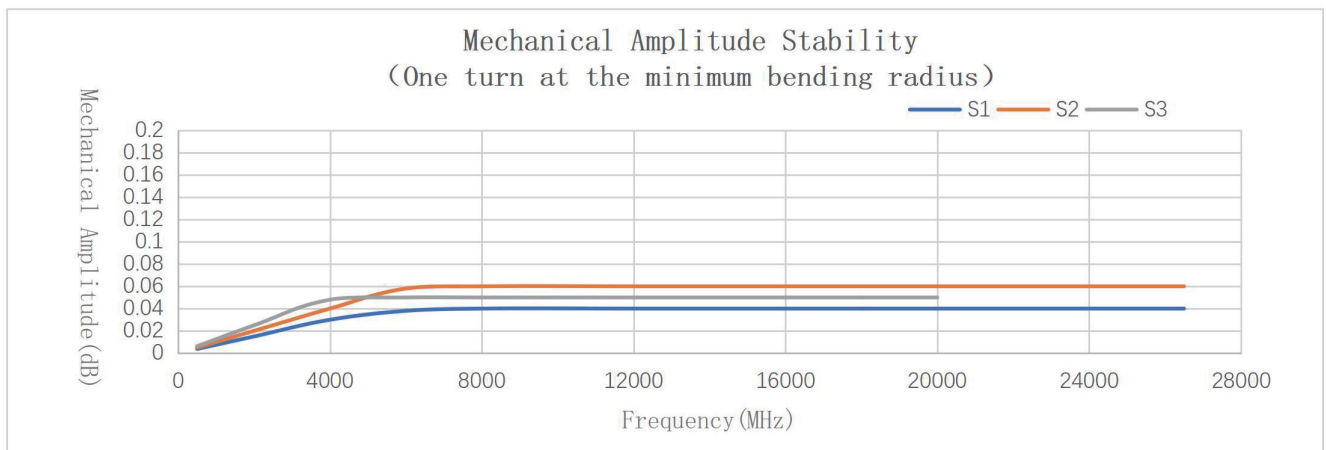
► Cable Specification

Model	S0		S1		S2	
Mechanical Specifications						
Center Conductor	0.72		1.02		1.29	
Dielectric	2.21		3.07		3.85	
Inner Shield	2.40		3.27		4.05	
Interlayer	2.80		3.41		4.18	
Outer Shield	3.15		3.87		4.63	
Jacket	3.60		4.60		5.20	
Electrical Specifications						
Impedance(Ω)	50		50		50	
Velocity of Propagation(%)	74		76		76	
Shielding Effectiveness (dB)	< -90		< -100		< -100	
Time Delay (ns/m)	4.50		4.38		4.38	
Capacitance (pF/m)	90.5		87.3		86.0	
Cut-off Frequency(GHz)	48		35		28	
Voltage Withstand(V,DC)	600		850		1100	
Static Bending Radius (mm)	18		23		26	
Dynamic Bending Radius (mm)	36		46		52	
Operating Temperature (°C)	-55~200		-55~200		-55~200	
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	30.87	0.580	24.88	0.809	19.44	1.065
1000	43.79	0.409	35.36	0.569	27.67	0.749
2000	62.18	0.288	50.35	0.400	39.47	0.525
4000	88.45	0.202	71.90	0.280	56.52	0.366
6000	108.82	0.165	88.71	0.227	69.87	0.296
8000	141.47	0.127	115.85	0.174	81.31	0.255
12000	155.44	0.115	127.53	0.158	100.89	0.205
16000	180.43	0.099	148.52	0.136	117.76	0.176
18000	191.82	0.093	158.14	0.127	125.51	0.165
20000	202.65	0.088	167.30	0.120	132.90	0.156
26500	234.80	0.076	194.63	0.103	155.04	0.134
40000	291.75	0.061				
K1	1.3707349		1.0994853		0.856234	
K2	0.00044		0.0005906		0.0005908	

Model	S3		S4		S5		S6	
Mechanical Specifications								
Center Conductor	1.57		2.06		3.50		4.40	
Dielectric	4.72		5.89		9.90		12.50	
Inner Shield	4.92		6.05		10.17		12.77	
Interlayer	5.06		6.17		10.30		12.91	
Outer Shield	5.64		6.81		11.02		13.63	
Jacket	6.20		7.62		12.00		14.70	
Electrical Specifications								
Impedance(Ω)	50		50		50		50	
Velocity of Propagation(%)	76		76		76		76	
Shielding Effectiveness (dB)	< -100		< -100		< -100		< -100	
Time Delay (ns/m)	4.38		4.38		4		4.38	
Capacitance (pF/m)	87.4		91.6		87.3		86.9	
Cut-off Frequency(GHz)	23		18		11		8	
Voltage Withstand(V,DC)	1300		1600		2500		3100	
Static Bending Radius (mm)	31		38		60		74	
Dynamic Bending Radius (mm)	62		76		120		147	
Operating Temperature (°C)	-55~200		-55~200		-55~200		-55~200	
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	15.55	1.411	12.29	2.703	9.06	4.631	7.10	6.433
1000	22.17	0.990	17.55	1.892	12.99	3.230	10.21	4.472
2000	31.70	0.693	25.17	1.320	18.72	2.241	14.79	3.088
4000	45.52	0.482	36.29	0.915	27.17	1.544	21.60	2.114
6000	56.40	0.389	45.10	0.737	33.94	1.236	27.11	1.684
8000	74.15	0.334	52.71	0.630	39.83	1.053		
12000	81.84	0.268	65.85	0.504				
16000	95.77	0.229	77.31	0.430				
18000	102.19	0.215	82.61	0.402				
K1	0.68243		0.536417		0.39168		0.304208	
K2	0.0005906		0.000591		0.0006		0.000591	

► Test Data







Connector Code	Connector Type	Operating Frequency	S0	S1	S2	S3	S4	S5	S6	VSWR (Max)
2.92M	2.92mm Male	DC-40GHz	●							1.30
2.92F	2.92mm Female	DC-40GHz	●							1.30
SMAM	SMA Male	DC-27GHz		●	●	●	●			1.25
SMAWM	SMA Male Right Angle	DC-18GHz		●	●					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
SCM	SC Male	DC-6GHz						●	●	1.25
DINM	7/16 Male	DC-6GHZ						●	●	1.25