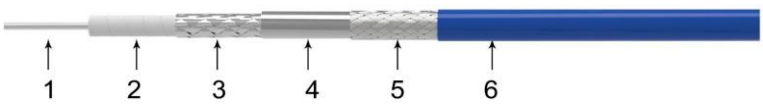
High Flex Life Triple-shielding Flexible Cable LF620 Rev3

Features & Benefits

- Up to 18 GHz，typical VSWR 1.20
- Torsion resistant and vibration proof
- High flex life
- Superior shielding effectiveness>100 dB
- Very good phase stability with flexure <±5° to 18 GHz
- Alternative to SFT-304, HP305S

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.57	Solid Silver-plated copper
2	Dielectric	4.72	Low density PTFE
3	Outer Conductor	4.96	Silver-plated flat copper ribbon braid
4	Interlayer	5.10	Aluminum foil wrap
5	Outer Shield	5.55	Silver-plated copper wire braid
6	Jacket	6.20	FEP

Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	>90 dB
Withstanding Voltage	2500 V
Mechanical Phase Stability*	<±5°
Amplitude Stability vs Shaking	<±0.15dB

* Wrapped 360° around a 62mm radius mandrel.

Mechanical & Environmental

Min.Bending Radius Static	31mm
Min. Bending Radius Repeated	62mm
Weight	85g/m
Temperature(Operation)	-50～150 ℃
Temperature(Storage)	-60～160 ℃

Attenuation(Typical@25℃&VSWR=1.0) & Power(VSWR=1.0; 40℃; Sea level)

Frequency MHz	400	500	1000	2400	3000	6000	8000	10000	12400	16000	18000
dB/100 Meter	13.9	15.6	22.2	34.9	39.2	56.4	65.8	74.2	83.3	95.8	102.2
Avg.Power kW	1.490	1.330	0.933	0.594	0.528	0.367	0.315	0.279	0.248	0.216	0.202

K1=0.682743 K2=0.000591

Attenuation at any frequency＝[K1×SQRT(FMHz)]+[K2×FMHz]

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
LF620	SMA	Male	Straight	Standard	18	1.25
LF620	N	Male	Straight	Standard	18	1.3
LF620	N	Female	Straight	Standard	18	1.35
LF620	TNC	Male	Straight	Standard	18	1.35

Other connectors available upon request.