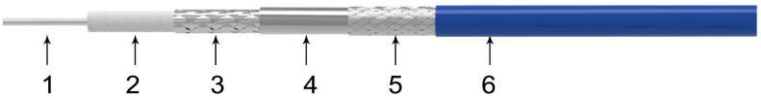
High Flex Life Triple-shielding Flexible Cable LF460 Rev3

Features & Benefits

- Up to 26.5GHz
- Torsion resistant and vibration proof
- High flex life, available with ruggedized armor
- Superior shielding effectiveness>100 dB
- Very good phase stability with flexure <±6º to 18 GHz
- Alternative to SFT-142, HP160S, UFA147A

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.02	Solid silver-plated copper
2	Dielectric	3.05	Low density PTFE
3	Outer Conductor	3.25	Silver-plated flat copper ribbon braid
4	Interlayer	3.49	Aluminum foil wrap
5	Outer Shield	4.00	Silver-plated copper wire braid
6	Jacket	4.60	FEP

Electrical

Frequency	DC-26.5 GHz
Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	>100 dB
Withstanding Voltage	1000 V
Mechanical Phase Stability*	<±6º@ DC-18GHz
Amplitude Stability vs Shaking	<±0.2dB

* Wrapped 360˚ around a 46mm radius mandrel.

Mechanical & Environmental

Min.Bending Radius Static	20mm
Min. Bending Radius Repeated	46mm
Weight	50g/m
Temperature(Operation)	-50～150 ºC
Temperature(Storage)	-60～160 ºC

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

Frequency MHz	300	500	1500	2400	3000	6000	8000	10000	12400	16000	18000	26500
dB/100 Meter	17.8	23.0	40.1	51.0	57.2	81.7	94.9	106.6	119.3	136.4	145.2	178.4
Avg.Power kW	1.285	0.993	0.569	0.448	0.399	0.279	0.241	0.214	0.191	0.167	0.157	0.128

Attenuation at any frequency=[1.018000×SQRT(FMHz)]+[0.00048×FMHz]

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
LF460	SMA	Male	Straight	Standard	18	1.25
LF460	SMA	Female	Straight	Standard	18	1.3
LF460	SMA	Male	Right Angle	Standard	18	1.35
LF460	N	Male	Straight	Standard	18	1.3
LF460	N	Male	Right Angle	Standard	18	1.35
LF460	N	Female	Straight	Standard	18	1.35
LF460	TNC	Male	Straight	Standard	18	1.3
LF460	TNC	Male	Right Angle	Standard	18	1.35
LF460	BNC	Male	Straight	Standard	4	1.3

Other connectors available upon request.