

Bande UHF	Bande S-DAB	Bande L	Bande S	Bande C	Bande Ku	Bande Ka
235 MHz à 400 MHz	1,452 GHz à 1,492 GHz	1,518 GHz à 1,675 GHz	1,97 GHz à 2,69 GHz	3,4 GHz à 7,025 GHz	10,7 GHz à 14,5 GHz	17,3 GHz à 30 GHz

Low-loss microwave cable assemblies Dc-40 Ghz



The high performance coaxial cables have been developed for applications where the demand is low attenuation and VSWR. They have a solid inner conductor making them less appropriate for applications where a long flex-life is required. The dielectric is made of foamed PTFE, but with a lesser air content than our Ultra low-loss cables. The high performance low loss coaxial cables are available for frequencies from Dc up to 26 GHz. A cost effective alternative with mechanical characteristics similar to the ultra low-loss cables.

LOW LOSS COAXIAL CABLE	LL160 Q BAND	LL142 KU-KA BAND	LL235 KU-KA BAND	LL335 KU BAND
Inner conductor	Solid silver plated copper	Solid silver plated copper	Solid silver plated copper	Solid silver plated copper
Dielectric	Expanded PTFE tape	Expanded PTFE tape	Expanded PTFE tape	Expanded PTFE tape
Jacket	FEP Ø 4.10 mm	FEP Ø 4.95 mm	FEP Ø 5.95 mm	FEP Ø 8.50 mm
Minimum bend radius(stat)	22 mm	25.4 mm	28 mm	38 mm
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Cut off frequency	42 GHz	33 GHz	23 GHz	18 GHz
Velocity of propagation	80 % - 83 %	80 % - 83 %	80 % - 83 %	80 % - 83 %
Shielding effectiveness	<-95 dB	<-95 dB	<-95 dB	<-95 dB
Temperature range	- 55 °C (min) + 200 °C (max)	- 55 °C (min) + 200 °C (max)	- 55 °C (min) + 200 °C (max)	- 55 °C (min) + 200 °C (max)
Weight (Kg/Km)	32	60	72	100
ATTENUATION (DB/M)				
500 MHz	0.23	0.15	0.15	0.10
1 GHz	0.34	0.23	0.22	0.15
3 GHz	0.60	0.42	0.40	0.27
5 GHz	0.77	0.55	0.50	0.35
10 GHz	1.10	0.80	0.75	0.52
12 GHz	1.22	0.86	0.82	0.58
Ku band	1.14 dB @10.70 GHz 1.25 dB @12.75 GHz	0.80 dB @10.70 GHz 0.90 dB @12.75 GHz	0.75 dB @10.70 GHz 0.84 dB @12.75 GHz	0.54 dB @10.70 GHz 0.60 dB @12.75 GHz
15 GHz	1.36	1.00	0.95	0.66
18 GHz	1.50	1.10	1.00	0.72
22 GHz	1.7	1.2	1.15	N/A
Ka band	1.50 dB @17.72 GHz 1.70 dB @22 GHz	1.08 dB @17.70 GHz 1.20 dB @22 GHz	1.00 dB @17.70 GHz 1.13 dB @22 GHz	N/A
POWER (WATTS)				
500 MHz	620	2800	3880	7900
1 GHz	580	1960	2670	5470
06 GHz	200	760	970	2020
12 GHz	160	520	690	1330
18 GHz	110	370	530	1040
ROS/VSWR	1.35@40 GHz	1.35@33 GHz	1.30@23 GHz	1.30@18 GHz

Connectors available : SMA /N /TNC /2.92mm /3.5 mm / straight or right angle

Option : Marking / protection / phase matching

Custom length available upon request

Typical applications :

- Test Cables
- Low Loss Jumpers
- High Frequency Interconnects
- Mobile & Fixed Satcom Systems
- Instrumentation
- Antennas Systems