

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 armored microwave cable assemblies Dc-40 GHz



The low-loss armored cables offer high performance flexible cable assemblies with the lowest insertion. They are designed with stainless steel connectors along with the strongest cable to connector termination of all the cable types. A wide selection of diameters, protective coverings and electrical options is available.

LOW LOSS ARMORED CABLE	LLA160	LLA142	LLA235	LLA335
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
Hard Armor Stainless steel outer diam	7.10mm	9.70mm	9.70mm	12.50mm
Minimum bend radius(stat)	38 mm	51 mm	51 mm	51 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	-54C-135C°	-54C-135C°	-54C-135C°	-54C-135C°
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	1.70	1.20	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
6 GHz	200	760	970	2020
12 GHz	160	520	690	1330
18 GHz	110	370	530	1040
ROS/WSWR	1.35@40 GHz	1.35@33 GHz	1.30@23 GHz	1.30@18 GHz

Armor: Type 302 Stainless Steel, Fully Interlocking
Connectors available : SMA /N /TNC /2.92mm /3.5 mm / straight or right angle
Option : Marking / protection / phase matching
 Custom length available upon request
Other armor options: Stainless steel polyurethane jacket/ Ruggedised polyolefin jacket

Typical applications :

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