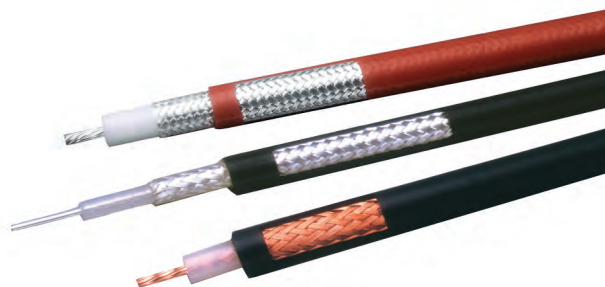


# HPL Cables

## Cable Feature:

Flexibility	Very Good
Cost	Medium/High
Attenuation	Medium
Power Handling	High
Temperature	Medium
Connector Availability	Good



	HPL-393	HPL-226	HPL-600	HPL-218	HPL-1200
<b>AA Drawing Number</b>	AA-11461	AA-11460	AA-11458	AA-11459	AA-11475
<b>Part Number</b>	510-0079	510-0078	510-0080	510-0077	54367
<b>Physical Specifications</b>					
Description	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Center Conductor	Stranded BC	Stranded BC	Stranded BC	Stranded BC	Stranded BC
	0.094 (2.39)	0.117 (2.97)	0.152 (3.86)	0.235 (5.97)	0.314 (7.98)
Dielectric	PTFE	PTFE	PTFE	PTFE	PTFE
	0.285 (7.24)	0.370 (9.40)	0.455 (11.56)	0.68 (17.27)	0.920 (23.37)
Inner Shield	TC	TC	TC	TC	TC
	0.314 (7.98)	0.400 (10.16)	0.488 (12.40)	0.714 (18.14)	0.966 (24.54)
Interlayer	/	/	/	/	/
Outer Shield	TC	TC	TC	TC	TC
	0.340 (8.64)	0.427 (10.85)	0.520 (13.21)	0.745 (18.92)	1.012 (25.70)
Jacket	TPV	TPV	TPV	TPV	TPV
	0.430 (10.92)	0.515 (13.08)	0.610 (15.49)	0.845 (21.46)	1.200 (30.48)
<b>Mechanical Specifications</b>					
Bend Radius	2.3 (57.2)	2.8 (69.9)	3.0 (76.2)	4.3 (108.0)	9.0 (228.6)
Weight	0.185 lb/ft	0.240 lb/ft	0.310 lb/ft	0.610 lb/ft	1.188 lb/ft
Operating Temperature Range	-55/+125 °C	-55/+125 °C	-55/+125 °C	-55/+125 °C	-55/+125 °C
<b>Electrical Specifications</b>					
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Shielding Effectiveness	60 dB	60 dB	60 dB	60 dB	60 dB
Dielectric Constant	1.98	1.98	1.98	1.73	1.73
Velocity of Propagation	0.71	0.71	0.71	0.76	0.76
Capacitance	28.8pF/ft	28.8pF/ft	28.9pF/ft	26.8pF/ft	29.0pF/ft
DC Voltage (kV)	5.1	6.4	8.3	9.45	12.5
<b>Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)</b>					
13.56 MHz	0.84 (2.74)	0.59 (1.94)	0.51 (1.66)	0.29 (0.96)	0.25 (0.82)
50 MHz	1.62 (5.33)	1.15 (3.79)	1.00 (3.27)	0.56 (1.85)	0.48 (1.59)
100 MHz	2.32 (7.61)	1.65 (5.43)	1.45 (4.74)	0.80 (2.63)	0.69 (2.26)
1000 MHz	7.87 (25.82)	5.77 (18.92)	5.37 (17.62)	2.63 (8.63)	2.30 (7.56)
1500 MHz	9.86 (32.33)	7.28 (23.88)	6.90 (22.64)	3.26 (10.70)	2.87 (9.42)
2000 MHz	11.59 (38.01)	8.62 (28.26)	8.28 (27.17)	3.81 (12.49)	3.37 (11.04)
2500 MHz	13.16 (43.18)	9.84 (32.28)	9.57 (31.39)	4.30 (14.09)	3.81 (12.51)
3000 MHz	14.63 (47.97)	10.98 (36.03)	10.79 (35.39)	4.74 (15.56)	4.22 (13.86)
K1	0.224140	0.157660	0.132920	0.078590	0.067100
K2	0.000783	0.000783	0.001170	0.000146	0.000183
<b>Power (Watts) (+25 °C Ambient; Sea Level)</b>					
13.56 MHz	13663	19232	25403	65129	87899
50 MHz	7039	9859	12865	33718	45371
100 MHz	4932	6879	8886	23722	31840
1000 MHz	1463	1983	2403	7234	9539
1500 MHz	1171	1574	1874	5838	7657
2000 MHz	998	1332	1564	5007	6538
2500 MHz	880	1168	1355	4441	5777
3000 MHz	793	1048	1204	4024	5216

\* SC = Silver Plated Copper

\* BC = Bare Copper

\* TC = Tinned Copper

\* MT = Metallized Composite Tapes

Note: HP-393 is marked RG-393-NPP-SN