

## HPL – New Generation of High Power Cables

HPL cables are the ideal choice for many high power applications such as semi-conductor and flat panel manufacturing equipment, lasers and RF heating. With stranded bare copper center conductors, PTFE taped dielectric, two tinned copper braids and a black 105°C rated polyurethane jacket, they provide excellent power handling and superior flexibility at a reasonable cost. Also offered are a broad range of specially designed HPL connectors for high power applications. HPL connectors have secondary clamps for added mechanical strength to withstand harsh field conditions.



### Attenuation and Power Handling

Attenuation: dB/100ft Max					
	HPL-393	HPL-226	HPL-600	HPL-218	HPL-1200
AA Drawing Number	11461	11460	11458	11459	11475
13.56 MHz	0.84	0.59	0.51	0.29	0.24
50 MHz	1.62	1.15	1.00	0.56	0.47
100 MHz	2.32	1.65	1.45	0.80	0.67
1000 MHz	7.87	5.77	5.37	2.64	2.26
1500 MHz	9.85	7.28	6.90	3.27	2.82
Power (kW)					
13.56 MHz	10.93	17.52	22.99	50.52	78.01
50 MHz	5.63	8.98	11.64	26.15	40.26
100 MHz	3.95	6.27	8.04	18.40	28.25
1000 MHz	1.17	1.81	2.29	5.61	8.45
1500 MHz	0.94	1.43	1.70	4.53	6.78
Connector availability					
NM	✓	CF	✓	NA	NA
NM-RA	✓	CF	✓	NA	NA
SCM	✓	CF	CF	NA	NA
SCM-RA	✓	CF	CF	NA	NA
HNM	✓	CF	✓	NA	NA
HNM-RA	✓	CF	✓	NA	NA
716M	✓	✓	✓	CF	CF
716M-RA	✓	✓	✓	CF	CF
LCM	✓	✓	✓	CF	CF
LCM-RA	✓	✓	✓	✓	CF
78EIA	NA	NA	✓	CF	CF
78EIA-RA	NA	NA	✓	CF	CF
158EIA	NA	NA	✓	✓	✓
318EIA	NA	NA	NA	CF	✓

## Details of Construction

Item	AA Drawing	MI Number	Center Conductor	Dielectric	Shielding 1st Layer	Shielding 2nd Layer	Jacket
HPL-218	11459	510-0077	Strd BC 0.235"	LDPTFE 0.680"	33GA TC braid 0.714"	33GA TC braid 0.745"	Black PUR 0.845"
HPL-226	11460	510-0078	Strd BC 0.117"	LDPTFE 0.370"	33GA TC braid 0.400"	33GA TC braid 0.427"	Black PUR 0.515"
HPL-393	11461	510-0079	Strd BC 0.094"	LDPTFE 0.285"	33GA TC braid 0.314"	33GA TC braid 0.340"	Black PUR 0.430"
HPL-600	11458	510-0080	Strd BC 0.152"	LDPTFE 0.455"	33GA TC braid 0.488"	33GA TC braid 0.520"	Black PUR 0.590"
HPL-1200	11475	54367	Strd BC 0.314"	LDPTFE 0.920"	30GA TC braid 0.966"	30GA TC braid 1.012"	Black 105PVC 1.200"

### Cable Assemblies:

Our design, manufacturing, assembly & testing expertise enable us to provide custom cable assemblies for your unique application. Cable assemblies are designed and built for reliability under the most extreme operating conditions. HPL assemblies can be phase matched or supplied in specific electrical lengths with customer markings and complete VSWR, insertion loss and corona test data and other test parameters as well.



For inquiries, please contact:

**Johnson Zhao:** Product Manager, Times Microwave Systems  
Tel: +86-21-54453612, Email: [Jinghua.Zhao@timesmicrowave.com](mailto:Jinghua.Zhao@timesmicrowave.com)

World Headquarters: 358 Hall Avenue, Wallingford, CT 06492 Tel: 203-949-8400, 1-800-867-2629  
International Sales: +1 (800) 867-2629 +1 (203) 949-8503  
China Sales: TMC Building 4, No. 318, Yuanshan Road, Minhang District, Shanghai, China  
[www.timesmicrowave.com](http://www.timesmicrowave.com)