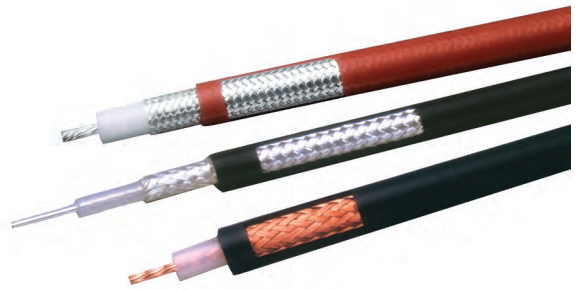


# HP Cables

## Cable Feature:

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



	HP-393	HP-226	HP-600A	HP-218	HP-900	HP-1200
<b>AA Drawing Number</b>	AA-9963	AA-9021	AA-11441	AA-9290	AA-11229	AA-11419
<b>Part Number</b>	510-0019	51848	510-0070	51928	54262	54359
<b>Physical Specifications</b>						
Description	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Center Conductor	SC	SC	SC	SC	BC Tube	BC Tube
	0.094 (2.39)	0.126 (3.20)	0.152 (3.86)	0.230 (5.84)	0.227 (5.77)	0.308 (7.82)
Dielectric	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	0.285 (7.24)	0.370 (9.40)	0.455 (11.56)	0.680 (17.27)	0.680 (17.27)	0.920 (23.27)
Inner Shield	TC	TC	TC	TC	MT	APA
	0.295 (7.49)	0.400 (10.13)	0.488 (12.40)	0.710 (18.11)	0.686 (17.42)	0.932 (23.67)
Interlayer	/	/	/	/	/	/
Outer Shield	TC	TC	TC	TC	TC	TC
	0.330 (8.38)	0.430 (10.87)	0.520 (13.23)	0.740 (18.95)	0.732 (18.59)	0.980 (24.89)
Jacket	FEP	FEP	FEP	Nomex/PTFE	Nomex/Kapton	PTFE
	0.390 (9.91)	0.490 (12.32)	0.590 (14.99)	0.790 (19.94)	0.775 (19.69)	1.050 (26.67)
<b>Mechanical Specifications</b>						
Bend Radius	2.0 (50.8)	5.0 (127.0)	2.8 (69.9)	8.0 (203.0)	4.0 (101.6)	8.0 (203.2)
Weight	0.175 lb/ft	0.240 lb/ft	0.325 lb/ft	0.375 lb/ft	0.475 lb/ft	0.740 lb/ft
Operating Temperature Range	-55/+200 °C	-55/+200 °C	-55/+200 °C	-55/+200 °C	-55/+200 °C	-40/+125 °C
<b>Electrical Specifications</b>						
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Shielding Effectiveness	60 dB	60 dB	60 dB	60 dB	90 dB	60 dB
Dielectric Constant	1.98	1.98	1.98	1.73	1.73	1.73
Velocity of Propagation	0.71	0.71	0.71	0.76	0.76	0.76
Capacitance	28.6pF/ft	28.6pF/ft	29.0pF/ft	26.7pF/ft	26.7pF/ft	26.7pF/ft
DC Voltage (kV)	1.875	6.9	8.3	9.45	9.45	12.5
<b>Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)</b>						
13.56 MHz	0.76 (2.48)	0.61 (1.99)	0.50 (1.63)	0.34 (1.11)	0.21 (0.70)	0.16 (0.51)
50 MHz	1.48 (4.87)	1.18 (3.88)	0.98 (3.23)	0.66 (2.15)	0.41 (1.36)	0.31 (1.00)
100 MHz	2.14 (7.02)	1.70 (5.56)	1.43 (4.68)	0.93 (3.06)	0.59 (1.94)	0.44 (1.43)
1000 MHz	7.64 (25.07)	5.90 (19.34)	5.31 (17.43)	3.07 (10.08)	1.99 (6.54)	1.50 (4.93)
1500 MHz	9.72 (31.88)	7.44 (24.39)	6.83 (22.40)	3.81 (12.51)	2.49 (8.17)	1.89 (6.21)
2000 MHz	11.57 (37.95)	8.80 (28.86)	8.20 (26.89)	4.45 (14.61)	2.92 (9.59)	2.23 (7.33)
2500 MHz	13.28 (43.56)	10.04 (32.94)	9.48 (31.08)	5.03 (16.49)	3.32 (10.88)	2.55 (8.35)
3000 MHz	14.89 (48.83)	11.21 (36.75)	10.69 (35.05)	5.55 (18.22)	3.68 (12.08)	2.83 (9.30)
K1	0.200595	0.161700	0.131000	0.091400	0.057220	0.041900
K2	0.001300	0.000783	0.001170	0.000183	0.000183	0.000180
<b>Power (Watts) (+25 °C Ambient; Sea Level)</b>						
13.56 MHz	18401	27153	32938	66034	80110	126762
50 MHz	9389	13926	16674	34170	41284	65095
100 MHz	6526	9720	11513	24030	28932	45482
1000 MHz	1836	2809	3106	7306	8586	13225
1500 MHz	1447	2231	2421	5891	6872	10521
2000 MHz	1218	1889	2020	5049	5854	8919
2500 MHz	1064	1657	1750	4476	5162	7831
3000 MHz	951	1487	1554	4053	4653	7033

\* SC = Silver Plated Copper

\* BC = Bare Copper

\* TC = Tinned Copper

\* MT = Metallized Composite Tapes

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