

# Some Other Cables I

	HFlex-142	AA-11406	QEAM-810	HP-1200-PUR	SFT-600-BCCAL-PUR
<b>AA Drawing Number</b>	AA-9406	AA-11406	AA-8848	AA-11470	AA-9593
<b>Part Number</b>	51929	510-0063	51816	54365	51956
<b>Physical Specifications</b>					
Description	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Center Conductor	SC	SC	SC	BC Tube	BCCAL
	0.038 (0.01)	0.097 (2.46)	0.228 (5.79)	0.308 (7.82)	0.150 (3.81)
Dielectric	PTFE	PTFE	PTFE	PTFE	PTFE
	0.105 (2.67)	0.285 (7.24)	0.620 (15.75)	0.920 (23.37)	0.455 (11.45)
Inner Shield	SC	SC	FSC	MT	FSC
	0.123 (3.12)	0.306 (7.77)	0.630 (16.00)	0.932 (23.67)	0.465 (11.81)
Interlayer	/	/	MT	/	MT
			0.636 (16.15)		0.469 (11.91)
Outer Shield	SC	SC	TC	TC	TC
	0.141 (3.58)	0.328 (8.33)	0.665 (16.89)	0.980 (24.89)	0.508 (12.90)
Jacket	FEP	PUR	PUR	PUR	PUR
	0.170 (4.32)	0.400 (10.16)	0.810 (20.57)	1.200 (30.48)	0.560 (14.22)
<b>Mechanical Specifications</b>					
Bend Radius	1.5 (38.1)	2.0 (50.8)	8.0 (203.2)	7.0 (177.8)	2.5 (63.5)
Weight	0.030 lb/ft	0.135 lb/ft	0.400 lb/ft	0.950 lb/ft	0.220 lb/ft
Operating Temperature Range	-55/+200 °C	-55/+105 °C	-55/+80 °C	-40/+105 °C	-55/+90 °C
<b>Electrical Specifications</b>					
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Shielding Effectiveness	60 dB	60 dB	100 dB	90 dB	100 dB
Dielectric Constant	1.73	1.73	1.56	1.73	1.73
Velocity of Propagation	0.76	0.76	0.8	0.76	0.76
Capacitance	26.8pF/ft	26.9pF/ft	25.4pF/ft	26.7pF/ft	26.7pF/ft
DC Voltage (kV)	2	5	9.2	12.5	7.5
<b>Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)</b>					
13.56 MHz	1.59 (5.23)	0.71 (2.34)	0.27 (0.89)	0.16 (0.51)	0.32 (1.06)
50 MHz	3.08 (10.12)	1.38 (4.51)	0.53 (1.73)	0.30 (0.99)	0.62 (2.05)
100 MHz	4.39 (14.40)	1.95 (6.39)	0.75 (2.46)	0.43 (1.42)	0.89 (2.91)
1000 MHz	14.56 (47.76)	6.25 (20.51)	2.47 (8.09)	1.50 (4.92)	2.93 (9.62)
1500 MHz	18.10 (59.38)	7.69 (25.23)	3.06 (10.03)	1.89 (6.19)	3.64 (11.95)
2000 MHz	21.17 (69.43)	8.92 (29.25)	3.57 (11.71)	2.23 (7.31)	4.26 (13.96)
2500 MHz	23.93 (78.48)	10.00 (32.81)	4.03 (13.21)	2.54 (8.34)	4.81 (15.76)
3000 MHz	26.47 (86.82)	10.99 (36.05)	4.47 (14.59)	2.83 (9.29)	5.31 (17.43)
K1	0.429235	0.193622	0.073588	0.041586	0.086948
K2	0.000986	0.000129	0.000139	0.000185	0.000183
<b>Power (Watts) (+25 °C Ambient; Sea Level)</b>					
13.56 MHz	6052	11120	28865	98786	24515
50 MHz	3133	5783	14942	50709	12681
100 MHz	2204	4084	10511	35419	8916
1000 MHz	672	1280	3203	10277	2706
1500 MHz	543	1042	2584	8170	2180
2000 MHz	466	900	2216	6922	1868
2500 MHz	414	803	1965	6076	1655
3000 MHz	375	732	1780	5454	1498

\* SC = Silver Plated Copper

\* BCCAL = Bare Copper Clad Aluminum

\* RSC = Rope Stranded Silver Plated Copper

\* FSC = Silver Plated Copper Flat Strip Braid

\* TC = Tinned Copper