

Some Other Cables I

	HFlex-142	AA-11406	QEAM-810	HP-1200-PUR	SFT-600-BCCAL-PUR
AA Drawing Number	AA-9406	AA-11406	AA-8848	AA-11470	AA-9593
Part Number	51929	510-0063	51816	54365	51956
Physical Specifications					
Description	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Center Conductor	SC	SC	SC	BC Tube	BCCAI
	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)
Mechanical Specifications					
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
Electrical Specifications					
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
Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)					
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
Power (Watts) (+25 °C Ambient; Sea Level)					
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

* BCCAI = Bare Copper Clad Aluminum

* RSC = Rope Stranded Silver Plated Copper

* FSC = Silver Plated Copper Flat Strip Braid

* TC = Tinned Copper

Some Other Cables II

	AA-11222	AA-11223	AA-9193	SFT-600-BCCAL	LMR-1700-DB-TPV
AA Drawing Number	AA-11222	AA-11223	AA-9193	AA-8980	AA-11629
Part Number	510-0042	510-0043	51887	51839	54376
Physical Specifications					
Description	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Center Conductor	RSC	RSC	RSC	BC	BC Tube
	0.160 (4.06)	0.160 (4.06)	0.160 (4.06)	0.150 (3.81)	0.516 (13.11)
Dielectric	PTFE	PTFE	PTFE	PTFE	PE
	0.455 (11.56)	0.455 (11.56)	0.455 (11.56)	0.455 (11.56)	1.35 (34.29)
Inner Shield	FSC	SC	SC	SC	APA
	0.465 (11.81)	0.478 (12.14)	0.478 (12.14)	0.465 (11.81)	1.356 (34.44)
Interlayer	MT	/	/	APT	/
	0.469 (11.91)			0.469 (11.91)	
Outer Shield	TC	SC	SC	TC	TC
	0.508 (12.90)	0.501 (12.73)	0.501 (12.73)	0.508 (12.90)	1.402 (35.61)
Jacket	PUR	PUR	FEP	FEP	TPV
	0.560 (14.22)	0.560 (14.22)	0.555 (14.10)	0.560 (14.22)	1.600 (40.64)
Mechanical Specifications					
Bend Radius	2.5 (63.5)	2.5 (63.5)	2.5 (63.5)	2.5 (63.5)	13.5 (342.9)
Weight	0.300 lb/ft	0.285 lb/ft	0.260 lb/ft	0.235 lb/ft	0.68 lb/ft
Operating Temperature Range	-55/+105 °C	-55/+105 °C	-55/+200 °C	-55/+200 °C	-50/+105 °C
Electrical Specifications					
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Shielding Effectiveness	100 dB	60 dB	60 dB	100 dB	90 dB
Dielectric Constant	1.73	1.73	1.73	1.73	1.26
Velocity of Propagation	0.76	0.76	0.76	0.76	0.89
Capacitance	26.7pF/ft	26.7pF/ft	26.7pF/ft	26.7pF/ft	22.8pF/ft
DC Voltage (kV)	8	8	8	6	9
Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)					
13.56 MHz	0.38 (1.24)	0.46 (1.51)	0.46 (1.51)	0.32 (1.06)	0.10 (0.33)
50 MHz	0.73 (2.39)	0.89 (2.91)	0.89 (2.91)	0.62 (2.05)	0.20 (0.64)
100 MHz	1.04 (3.40)	1.26 (4.14)	1.26 (4.14)	0.89 (2.91)	0.28 (0.93)
1000 MHz	3.40 (11.17)	4.11 (13.49)	4.11 (13.49)	2.93 (9.62)	0.99 (3.27)
1500 MHz	4.22 (13.84)	5.09 (16.69)	5.09 (16.69)	3.64 (11.95)	1.26 (4.14)
2000 MHz	4.92 (16.14)	5.92 (19.44)	5.93 (19.44)	4.26 (13.96)	1.50 (4.91)
2500 MHz	5.55 (18.21)	6.67 (21.89)	6.67 (21.89)	4.81 (15.76)	1.71 (5.62)
3000 MHz	6.13 (20.10)	7.36 (24.13)	7.36 (24.13)	5.31 (17.43)	1.91 (6.28)
K1	0.101875	0.124310	0.124310	0.086948	0.026741
K2	0.000183	0.000183	0.000183	0.000183	0.000150
Power (Watts) (+25 °C Ambient; Sea Level)					
13.56 MHz	26221	21996	46760	61389	81965
50 MHz	13579	11404	24242	31756	41916
100 MHz	9555	8033	17076	22326	29185
1000 MHz	2919	2471	5253	6775	8293
1500 MHz	2357	2000	4251	5460	6553
2000 MHz	2022	1719	3654	4677	5525
2500 MHz	1794	1528	3248	4144	4830
3000 MHz	1626	1387	2948	3751	4320

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