

NTSC Frequency Chart

Band	Channel		Bandwidth MHz	Frequency Range MHz	Carrier Frequencies (MHz)	
	CATV	TV			Visual	Aural
Sub-Band	T-7	-	6	5.75 - 11.75	7.0000	11.5000
	T-8	-	6	11.75 - 17.75	13.0000	17.5000
	T-9	-	6	17.75 - 23.75	19.0000	23.5000
	T-10	-	6	23.75 - 29.75	25.0000	29.5000
	T-11	-	6	29.75 - 35.75	31.0000	35.5000
	T-12	-	6	35.75 - 41.75	37.0000	41.5000
	T-13	-	6	41.75 - 47.75	43.0000	47.5000
IF	-	-	6	40 - 46	45.7500	41.2500
VHF Low-Band	2	2	6	54 - 60	55.2500	59.7500
	3	3	6	60 - 66	61.2500	65.7500
	4	4	6	66 - 72	67.2500	71.7500
	5	5	6	76 - 82	77.2500	81.7500
FM-Band	A-5	95	6	90 - 96	91.2500	95.7500
	A-4	96	6	96 - 102	97.2500	101.7500
	A-3	97	6	102 - 108	103.2500	107.7500
	A-2	98	6	108 - 114	109.2750	113.7750
VHF Mid-Band	A-1	99	6	114 - 120	115.2750	119.7750
	A	14	6	120 - 126	121.2625	125.7625
	B	15	6	126 - 132	127.2625	131.7625
	C	16	6	132 - 138	133.2625	137.7625
	D	17	6	138 - 144	139.2500	143.7500
	E	18	6	144 - 150	145.2500	149.7500
	F	19	6	150 - 156	151.2500	155.7500
	G	20	6	156 - 162	157.2500	161.7500
	H	21	6	162 - 168	163.2500	167.7500
VHF High-Band	I	22	6	168 - 174	169.2500	173.7500
	7	7	6	174 - 180	175.2500	179.7500
	8	8	6	180 - 186	181.2500	185.7500
	9	9	6	186 - 192	187.2500	191.7500
	10	10	6	192 - 198	193.2500	197.7500
	11	11	6	198 - 204	199.2500	203.7500
Super Band	12	12	6	204 - 210	205.2500	209.7500
	13	13	6	210 - 216	211.2500	215.7500
	J	23	6	216 - 222	217.2500	221.7500
	K	24	6	222 - 228	223.2500	227.7500
	L	25	6	228 - 234	229.2500	233.7500
	M	26	6	234 - 240	235.2500	239.7500
	N	27	6	240 - 246	241.2500	245.7500
	O	28	6	246 - 252	247.2500	251.7500
	P	29	6	252 - 258	253.2625	257.7625
	Q	30	6	258 - 264	259.2625	263.7625
	R	31	6	264 - 270	265.2625	269.7625
	S	32	6	270 - 276	271.2625	275.7625
	T	33	6	276 - 282	277.2625	281.7625
Hyper Band	U	34	6	282 - 288	283.2625	287.7625
	V	35	6	288 - 294	289.2625	293.7625
	W	36	6	294 - 300	295.2625	299.7625
	AA	37	6	300 - 306	301.2625	305.7625
	BB	38	6	306 - 312	307.2625	311.7625
	CC	39	6	312 - 318	313.2625	317.7625
	DD	40	6	318 - 324	319.2625	323.7625
	EE	41	6	324 - 330	325.2625	329.7625
	FF	42	6	330 - 336	331.2750	335.7750
	GG	43	6	336 - 342	337.2625	341.7625
	HH	44	6	342 - 348	343.2625	347.7625
	II	45	6	348 - 354	349.2625	353.7625
	JJ	46	6	354 - 360	355.2625	359.7625
	KK	47	6	360 - 366	361.2625	365.7625
	LL	48	6	366 - 372	367.2625	371.7625
	MM	49	6	372 - 378	373.2625	377.7625
	NN	50	6	378 - 384	379.2625	383.7625
	OO	51	6	384 - 390	385.2625	389.7625
	PP	52	6	390 - 396	391.2625	395.7625

Band	Channel		Bandwidth MHz	Frequency Range MHz	Carrier Frequencies (MHz)	
	CATV	TV			Visual	Aural
Hyper Band (Cont.)	QQ	53	6	396 - 402	397.2625	401.7625
	RR	54	6	402 - 408	403.2500	407.7500
	SS	55	6	408 - 414	409.2500	413.7500
	TT	56	6	414 - 420	415.2500	419.7500
	UU	57	6	420 - 426	421.2500	425.7500
	VV	58	6	426 - 432	427.2500	431.7500
	WW	59	6	432 - 438	433.2500	437.7500
	XX	60	6	438 - 444	439.2500	443.7500
	YY	61	6	444 - 450	445.2500	449.7500
	ZZ	62	6	450 - 456	451.2500	455.7500
Cable Ultra Band	AAA	63	6	456 - 462	457.2500	461.7500
	BBB	64	6	462 - 468	463.2500	467.7500
	CCC	65	6	468 - 474	469.2500	473.7500
	DDD	66	6	474 - 480	475.2500	479.7500
	EEE	67	6	480 - 486	481.2500	485.7500
	FFF	68	6	486 - 492	487.2500	491.7500
	GGG	69	6	492 - 498	493.2500	497.7500
	HHH	70	6	498 - 504	499.2500	503.7500
	III	71	6	504 - 510	505.2500	509.7500
	JJJ	72	6	510 - 516	511.2500	515.7500
	KKK	73	6	516 - 522	517.2500	521.7500
	LLL	74	6	522 - 528	523.2500	527.7500
	MMM	75	6	528 - 534	529.2500	533.7500
	NNN	76	6	534 - 540	535.2500	539.7500
	OOO	77	6	540 - 546	541.2500	545.7500
	PPP	78	6	546 - 552	547.2500	551.7500
	QQQ	79	6	552 - 558	553.2500	557.7500
	RRR	80	6	558 - 564	559.2500	563.7500
	SSS	81	6	564 - 570	565.2500	569.7500
	TTT	82	6	570 - 576	571.2500	575.7500
	UUU	83	6	576 - 582	577.2500	581.7500
	VVV	84	6	582 - 588	583.2500	587.7500
	WWW	85	6	588 - 594	589.2500	593.7500
	XXX	86	6	594 - 600	595.2500	599.7500
	YYY	87	6	600 - 606	601.2500	605.7500
	ZZZ	88	6	606 - 612	607.2500	611.7500
	-	89	6	612 - 618	613.2500	617.7500
	-	90	6	618 - 624	619.2500	623.7500
	-	91	6	624 - 630	625.2500	629.7500
	-	92	6	630 - 636	631.2500	635.7500
	-	93	6	636 - 642	637.2500	641.7500
	-	94	6	642 - 648	643.2500	647.7500
	-	100	6	648 - 654	649.2500	653.7500
	-	101	6	654 - 660	655.2500	659.7500
	-	102	6	660 - 666	661.2500	665.7500
	-	103	6	666 - 672	667.2500	671.7500
	-	104	6	672 - 678	673.2500	677.7500
	-	105	6	678 - 684	679.2500	683.7500
	-	106	6	684 - 690	685.2500	689.7500
	-	107	6	690 - 696	691.2500	695.7500
	-	108	6	696 - 702	697.2500	701.7500
	-	109	6	702 - 708	703.2500	707.7500
	-	110	6	708 - 714	709.2500	713.7500
	-	111	6	714 - 720	715.2500	719.7500
	-	112	6	720 - 726	721.2500	725.7500
	-	113	6	726 - 732	727.2500	731.7500
	-	114	6	732 - 738	733.2500	737.7500
	-	115	6	738 - 744	739.2500	743.7500
	-	116	6	744 - 750	745.2500	749.7500
	-	117	6	750 - 756	751.2500	755.7500
	-	118	6	756 - 762	757.2500	761.7500
	-	119	6	762 - 768	763.2500	767.7500
	-	120	6	768 - 774	769.2500	773.7500
	-	121	6	774 - 780	775.2500	779.7500
	-	122	6	780 - 786	781.2500	785.7500
	-	123	6	786 - 792	787.2500	791.7500
	-	124	6	792 - 798	793.2500	797.7500
	-	125	6	798 - 804	799.2500	803.7500
	-	126	6	804 - 810	805.2500	809.7500
	-	127	6	810 - 816	811.2500	815.7500

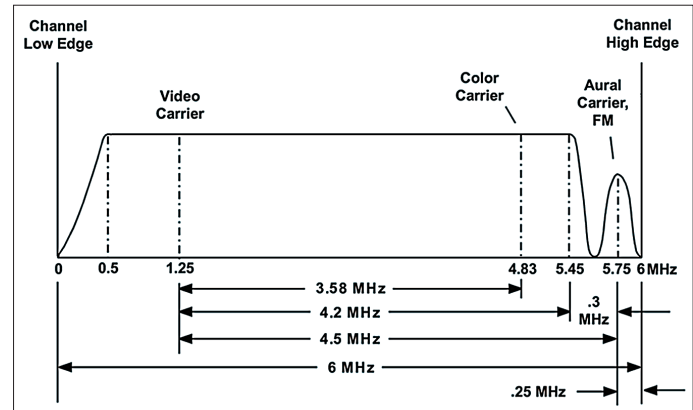
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Band	Channel		Bandwidth MHz	Frequency Range MHz	Carrier Frequencies (MHz)	
	CATV	TV			Visual	Aural
Cable Ultra Band (Cont.)	-	128	6	816 - 822	817.2500	821.7500
	-	129	6	822 - 828	823.2500	827.7500
	-	130	6	828 - 834	829.2500	833.7500
	-	131	6	834 - 840	835.2500	839.7500
	-	132	6	840 - 846	841.2500	845.7500
	-	133	6	846 - 852	847.2500	851.7500
UHF Off Air	-	134	6	852 - 858	853.2500	857.7500
	-	135	6	858 - 864	859.2500	863.7500

UHF Off Air	-	14	6	470 - 476	471.2500	475.7500
	-	15	6	476 - 482	477.2500	481.7500
	-	16	6	482 - 488	483.2500	487.7500
	-	17	6	488 - 494	489.2500	493.7500
	-	18	6	494 - 500	495.2500	499.7500
	-	19	6	500 - 506	501.2500	505.7500
UHF Off Air	-	20	6	506 - 512	507.2500	511.7500
	-	21	6	512 - 518	513.2500	517.7500
	-	22	6	518 - 524	519.2500	523.7500
	-	23	6	524 - 530	525.2500	529.7500
	-	24	6	530 - 536	531.2500	535.7500
	-	25	6	536 - 542	537.2500	541.7500
UHF Off Air	-	26	6	542 - 548	543.2500	547.7500
	-	27	6	548 - 554	549.2500	553.7500
	-	28	6	554 - 560	555.2500	559.7500
	-	29	6	560 - 566	561.2500	565.7500
	-	30	6	566 - 572	567.2500	571.7500
	-	31	6	572 - 578	573.2500	577.7500
UHF Off Air	-	32	6	578 - 584	579.2500	583.7500
	-	33	6	584 - 590	585.2500	589.7500
	-	34	6	590 - 596	591.2500	595.7500
	-	35	6	596 - 602	597.2500	601.7500
	-	36	6	602 - 608	603.2500	607.7500
	-	37	6	608 - 614	609.2500	613.7500
UHF Off Air	-	38	6	614 - 620	615.2500	619.7500
	-	39	6	620 - 626	621.2500	625.7500
	-	40	6	626 - 632	627.2500	631.7500
	-	41	6	632 - 638	633.2500	637.7500
	-	42	6	638 - 644	639.2500	643.7500
	-	43	6	644 - 650	645.2500	649.7500
UHF Off Air	-	44	6	650 - 656	651.2500	655.7500
	-	45	6	656 - 662	657.2500	661.7500
	-	46	6	662 - 668	663.2500	667.7500
	-	47	6	668 - 674	669.2500	673.7500
	-	48	6	674 - 680	675.2500	679.7500
	-	49	6	680 - 686	681.2500	685.7500
UHF Off Air	-	50	6	686 - 692	687.2500	691.7500
	-	51	6	692 - 698	693.2500	697.7500
	-	52	6	698 - 704	699.2500	703.7500
	-	53	6	704 - 710	705.2500	709.7500
	-	54	6	710 - 716	711.2500	715.7500
	-	55	6	716 - 722	717.2500	721.7500
UHF Off Air	-	56	6	722 - 728	723.2500	727.7500
	-	57	6	728 - 734	729.2500	733.7500
	-	58	6	734 - 740	735.2500	739.7500
	-	59	6	740 - 746	741.2500	745.7500
	-	60	6	746 - 752	747.2500	751.7500
	-	61	6	752 - 758	753.2500	757.7500
UHF Off Air	-	62	6	758 - 764	759.2500	763.7500
	-	63	6	764 - 770	765.2500	769.7500
	-	64	6	770 - 776	771.2500	775.7500
	-	65	6	776 - 782	777.2500	781.7500
	-	66	6	782 - 788	783.2500	787.7500
	-	67	6	788 - 794	789.2500	793.7500
UHF Off Air	-	68	6	794 - 800	795.2500	799.7500
	-	69	6	800 - 806	801.2500	805.7500
	-	70	6	806 - 812	807.2500	811.7500
	-	71	6	812 - 818	813.2500	817.7500
	-	72	6	818 - 824	819.2500	823.7500
	-	73	6	824 - 830	825.2500	829.7500
UHF Off Air	-	74	6	830 - 836	831.2500	835.7500
	-	75	6	836 - 842	837.2500	841.7500

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Band	Channel		Bandwidth MHz	Frequency Range MHz	Carrier Frequencies (MHz)	
	CATV	TV			Visual	Aural
UHF Off Air (Cont.)	-	76	6	842 - 848	843.2500	847.7500
	-	77	6	848 - 854	849.2500	853.7500
	-	78	6	854 - 860	855.2500	859.7500
	-	79	6	860 - 866	861.2500	865.7500
	-	80	6	866 - 872	867.2500	871.7500
	-	81	6	872 - 878	873.2500	877.7500
UHF Off Air (Cont.)	-	82	6	878 - 884	879.2500	883.7500
	-	83	6	884 - 890	885.2500	889.7500



Cable Attenuation Chart

Frequency MHz	Channel #	Drop Cable Types			Hardline Types .500
		RG59	RG6	RG11	
5	<T-7	0.77	0.57	0.36	0.16
40	T-12	1.6	1.28	0.81	0.47
55	2	1.88	1.50	0.95	0.55
211	13	3.59	2.87	1.81	1.08
300	CATV 36	4.27	3.43	2.17	1.31
400	CATV 54	4.88	4.00	2.53	1.53
500	CATV 69	5.50	4.51	2.85	1.73
550	CATV 78	5.90	4.76	3.01	1.82
600	CATV 86	6.18	4.98	3.16	1.91
750	CATV 116	6.96	5.62	3.58	2.16
870	CATV 136	7.54	6.09	3.90	2.35
950	SAT IF LOW	7.90	6.39	4.10	2.49
1000	CATV 158	8.09	6.54	4.23	2.53
1450	SAT IF HIGH	9.82	7.89	5.29	3.12
2150	SAT IF STACKED	12.10	9.69	6.60	3.92
Loop Resistance Ohms/100 Ft.		5.99	3.96	1.95	3.92

Typical Cable Attenuation Chart in dB/100-ft @ 68°F

dB Conversion Chart

mV	dBmV	dBµV	dBm	mV	dBmV	dBµV	dBm	mV	dBmV	dBµV	dBm
0.0010	-60	0	-108.75	0.2512	-12	48	-60.75	63.0957	36	96	-12.75
0.0011	-59	1	-107.75	0.2818	-11	49	-59.75	70.7946	37	97	-11.75
0.0013	-58	2	-106.75	0.3162	-10	50	-58.75	79.4328	38	98	-10.75
0.0014	-57	3	-105.75	0.3548	-9	51	-57.75	89.1251	39	99	-9.75
0.0016	-56	4	-104.75	0.3981	-8	52	-56.75	100.0000	40	100	-8.75
0.0018	-55	5	-103.75	0.4467	-7	53	-55.75	112.2018	41	101	-7.75
0.0020	-54	6	-102.75	0.5012	-6	54	-54.75	125.8925	42	102	-6.75
0.0022	-53	7	-101.75	0.5623	-5	55	-53.75	141.2538	43	103	-5.75
0.0025	-52	8	-100.75	0.6310	-4	56	-52.75	158.4893	44	104	-4.75
0.0028	-51	9	-99.75	0.7079	-3	57	-51.75	177.8279	45	105	-3.75
0.0032	-50	10	-98.75	0.7943	-2	58	-50.75	199.5262	46	106	-2.75
0.0035	-49	11	-97.75	0.8913	-1	59	-49.75	223.8721	47	107	-1.75
0.0040	-48	12	-96.75	1.0000	0	60	-48.75	251.1886	48	108	-0.75
0.0045	-47	13	-95.75	1.1220	-1	61	-47.75	273.8420	48.75	108.75	0.00
0.0050	-46	14	-94.75	1.2589	-2	62	-46.75	281.8383	49	109	0.25
0.0056	-45	15	-93.75	1.4125	-3	62	-45.75	316.2278	50	110	1.25
0.0063	-44	16	-92.75	1.5849	-4	64	-44.75	354.8134	51	111	2.25
0.0071	-43	17	-91.75	1.7783	-5	65	-43.75	398.1072	52	112	3.25
0.0079	-42	18	-90.75	1.9953	6	66	-42.75	446.6836	53	113	4.25
0.0089	-41	19	-89.75	2.2387	7	66	-41.75	501.1872	54	114	5.25
0.0100	-40	20	-88.75	2.5119	8	67	-40.75	562.3413	55	115	6.25
0.0112	-39	21	-87.75	2.8184	9	68	-39.75	630.9573	56	116	7.25
0.0126	-38	22	-86.75	3.1623	10	69	-38.75	707.9458	57	117	8.25
0.0141	-37	23	-85.75	3.5481	11	70	-37.75	794.3282	58	118	9.25
0.0158	-36	24	-84.75	3.9811	12	71	-36.75	891.2509	59	119	10.25
0.0178	-35	25	-83.75	4.4668	13	72	-35.75	1000.0000	60	120	11.25
0.0200	-34	26	-82.75	5.0119	14	73	-34.75	1122.0185	61	121	12.25
0.0224	-33	27	-81.75	5.6234	15	74	-33.75	1258.9254	62	122	13.25
0.0251	-32	28	-80.75	6.3096	16	75	-32.75	1412.5375	63	123	14.25
0.0282	-31	29	-79.75	7.0795	17	76	-31.75	1584.8932	64	124	15.25
0.0316	-30	30	-78.75	7.9433	18	77	-30.75	1778.2794	65	125	16.25
0.0355	-29	31	-77.75	8.9125	19	78	-29.75	1995.2623	66	126	17.25
0.0398	-28	32	-76.75	10.0000	20	79	-28.75	2238.7211	67	127	18.25
0.0447	-27	33	-75.75	11.2202	21	80	-27.75	2511.8864	68	128	19.25
0.0501	-26	34	-74.75	12.5893	22	81	-26.75	2818.3829	69	129	20.25
0.0562	-25	35	-73.75	14.1254	23	82	-25.75	3162.2777	70	130	21.25
0.0631	-24	36	-72.75	15.8489	24	83	-24.75	3548.1339	71	131	22.25
0.0708	-23	37	-71.75	17.7828	25	84	-23.75	3981.0717	72	132	23.25
0.0794	-22	38	-70.75	19.9526	26	85	-22.75	4466.8359	73	133	24.25
0.0891	-21	39	-69.75	22.3872	27	86	-21.75	5011.8723	74	134	25.25
0.1000	-20	40	-68.75	25.1189	28	87	-20.75	5623.4133	75	135	26.25
0.1120	-19	41	-67.75	28.1838	29	88	-19.75	6309.5734	76	136	27.25
0.1259	-18	42	-66.75	31.6228	30	89	-18.75	7079.4578	77	137	28.25
0.1413	-17	43	-65.75	35.4813	31	90	-17.75	7943.2823	78	138	29.25
0.1586	-16	44	-64.75	39.8107	32	91	-16.75	8912.5094	79	139	30.25
0.1778	-15	45	-63.75	44.6684	33	93	-15.75	10000.0000	80	140	31.25
0.1995	-14	46	-62.75	50.1187	34	94	-14.75				
0.2239	-13	47	-61.75	56.2341	35	95	-13.75				