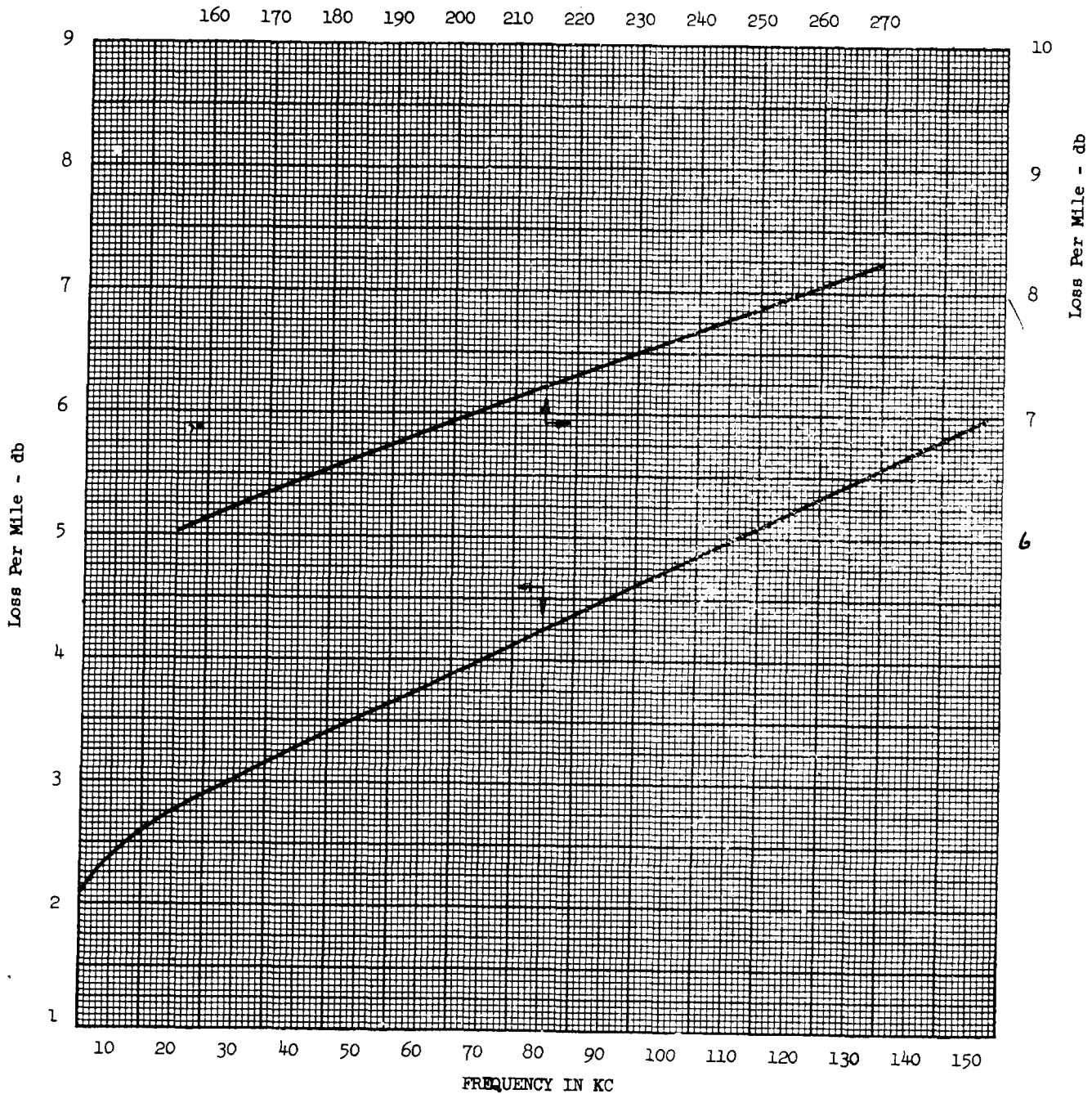


**CABLE LOSSES AT CARRIER FREQUENCIES**  
**19 GAUGE TOLL CABLE**  
**(.062 mf/mile)**

**Losses in db/mile at 55°F.**  
Applies to a pair having nominal capacitance; measured losses may vary  $\pm 10\%$



**APPROXIMATE CHANGES IN CARRIER  
CABLE ATTENUATION AND TEMPERATURE COEFFICIENTS**

	K CARRIER					N AND ON CARRIER		
Frequency in kc	12	28	57	60	40	128	176	264
Attenuation (db/mile)	2.52	2.98	3.70	3.77	3.20	5.40	6.45	8.10
Temp. Coefficient (db/mi./10°F.)	.048	.053	.050	.050	.051	.060	.059	.064

**19 GAUGE TOLL CABLE**  
(.062 mf/mile)

**Types N and ON Carrier Engineering Data**  
(Values in db at 55°F.)

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	Low Group 128 KC Loss N Channel 2 ON Carrier 1	0		.54	1.08	1.62	2.16	2.70	3.24	3.78	4.32
1		5.40	5.94	6.48	7.02	7.56	8.10	8.64	9.18	9.72	10.26
2		10.80	11.34	11.88	12.42	12.96	13.50	14.04	14.58	15.12	15.66
3		16.20	16.74	17.28	17.82	18.36	18.90	19.44	19.98	20.52	21.06
4		21.60	22.14	22.68	23.22	23.76	24.30	24.84	25.38	25.92	26.46
5		27.00	27.54	28.08	28.62	29.16	29.70	30.24	30.78	31.32	31.86
6		32.40	32.94	33.48	34.02	34.56	35.10	35.64	36.18	36.72	37.26
7		37.80	38.34	38.88	39.42	39.96	40.50	41.04	41.58	42.12	42.66
8		43.20	43.74	44.28	44.82	45.36	45.90	46.44	46.98	47.52	48.06
9		48.60	49.14	49.68	50.22	50.76	51.30	51.84	52.38	52.92	53.46

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	High Group 176 KC Loss N Channel 2 ON Carrier 1	0		.65	1.29	1.94	2.58	3.23	3.87	4.52	5.16
1		6.45	7.10	7.74	8.39	9.03	9.68	10.32	10.97	11.61	12.26
2		12.90	13.55	14.19	14.84	15.48	16.13	16.77	17.42	18.06	18.71
3		19.35	20.00	20.64	21.29	21.94	22.58	23.23	23.87	24.52	25.16
4		25.81	26.45	27.10	27.74	28.39	29.03	29.68	30.32	30.97	31.61
5		32.26	32.90	33.55	34.19	34.84	35.48	36.13	36.77	37.42	38.06
6		38.71	39.35	40.00	40.64	41.29	41.93	42.58	43.22	43.87	44.51
7		45.16	45.80	46.44	47.09	47.73	48.38	49.02	49.67	50.31	50.96
8											
9											

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	Low Group Positive (+) Slope (Difference between 128 KC and 40 KC Losses)	0		.22	.44	.66	.88	1.10	1.32	1.54	1.76
1		2.20	2.42	2.64	2.86	3.08	3.30	3.52	3.74	3.96	4.18
3		4.40	4.62	4.84	5.06	5.28	5.50	5.72	5.94	6.16	6.38
3		6.60	6.82	7.04	7.26	7.48	7.70	7.92	8.14	8.36	8.58
4		8.80	9.02	9.24	9.46	9.68	9.90	10.12	10.34	10.56	10.78
5		11.00	11.22	11.44	11.66	11.88	12.10	12.32	12.54	12.76	12.98
6		13.20	13.42	13.64	13.86	14.08	14.30	14.52	14.74	14.96	15.18
7		15.40	15.62	15.84	16.06	16.28	16.50	16.72	16.94	17.16	17.38
8											
9											

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	High Group Negative (-) Slope (Difference between 264 KC and 176 KC Losses)	0		.17	.33	.50	.66	.83	.99	1.16	1.32
1		1.65	1.82	1.98	2.15	2.31	2.48	2.64	2.81	2.98	3.14
2		3.31	3.47	3.64	3.80	3.97	4.13	4.30	4.46	4.63	4.79
3		4.96	5.12	5.29	5.45	5.62	5.78	5.95	6.11	6.28	6.44
4		6.61	6.77	6.94	7.10	7.27	7.43	7.60	7.76	7.93	8.09
5		8.26	8.42	8.59	8.75	8.92	9.08	9.25	9.41	9.58	9.74
6		9.91	10.07	10.24	10.40	10.57	10.73	10.90	11.06	11.23	11.39
7		11.56	11.72	11.89	12.05	12.22	12.38	12.55	12.71	12.88	13.04
8											
9											