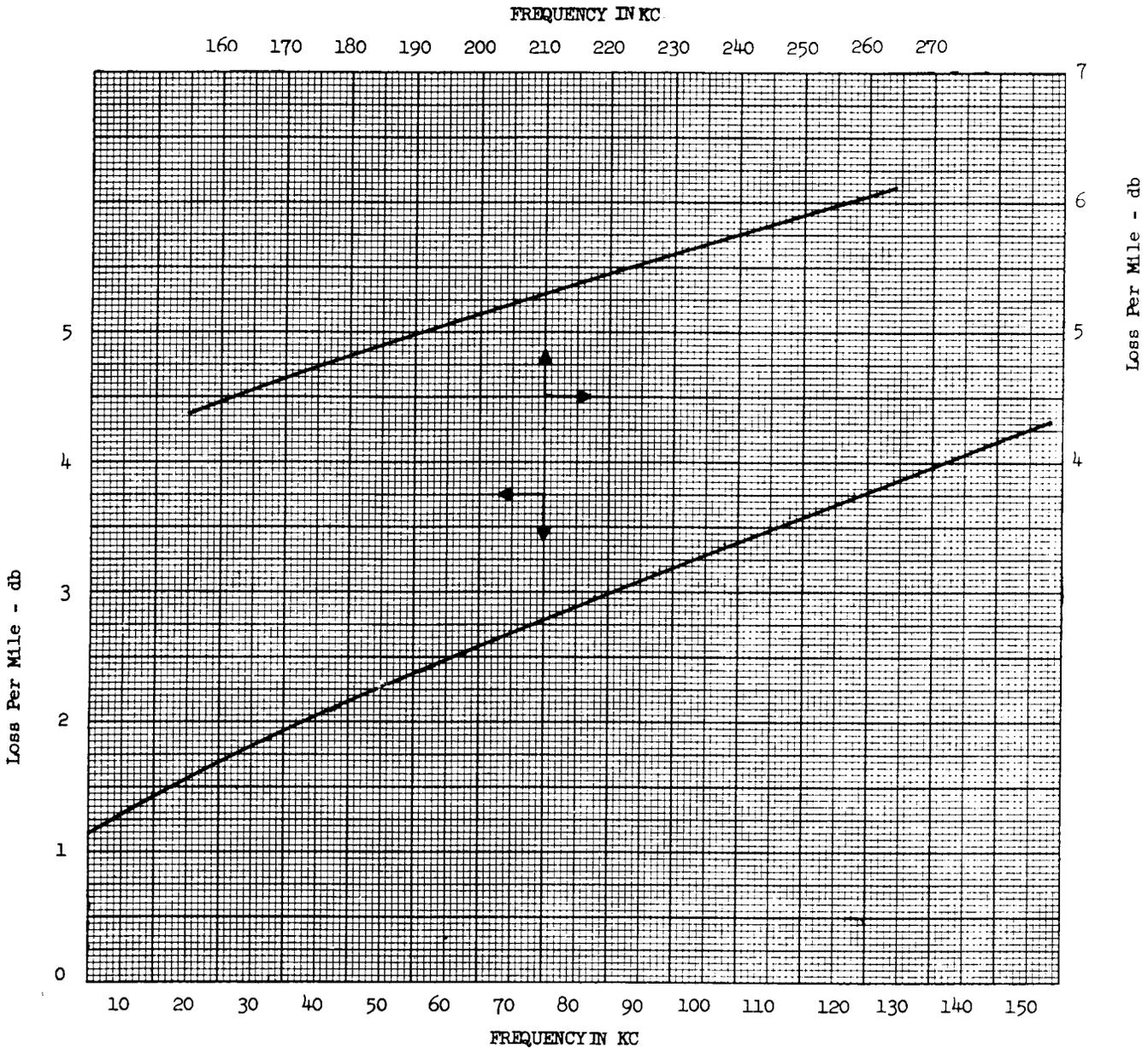


CABLE LOSSES AT CARRIER FREQUENCIES
16 GAUGE TOLL CABLE
(.062 mf/mile)
Losses in db/mile at 55°F.

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)	1.34	1.77	2.42	2.47	2.04	3.88	4.78	6.12
Temp. Coefficient (db/mi./10°F.)	.025	.027	.028	.028	.029	.027	.028	.032

16 GAUGE TOLL CABLE
(.062 mf/mile)

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

Low Group 128 KC Loss N Channel 2 ON Carrier 1	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.39	.78	1.16	1.55	1.94	2.33	2.72	3.10	3.49
1	3.88	4.27	4.66	5.04	5.43	5.82	6.21	6.60	6.98	7.37	
2	7.76	8.15	8.54	8.92	9.31	9.70	10.09	10.48	10.86	11.25	
3	11.64	12.03	12.42	12.80	13.19	13.58	13.97	14.36	14.74	15.13	
4	15.52	15.91	16.30	16.68	17.07	17.46	17.85	18.24	18.62	19.01	
5	19.40	19.79	20.18	20.56	20.95	21.34	21.73	22.12	22.50	22.89	
6	23.28	23.67	24.06	24.44	24.83	25.22	25.61	26.00	26.38	26.77	
7	27.16	27.55	27.94	28.32	28.71	29.10	29.49	29.88	30.26	30.65	
8	31.04	31.43	31.82	32.20	32.59	32.98	33.37	33.76	34.14	34.53	
9	34.92	35.31	35.70	36.08	36.47	36.86	37.25	37.64	38.02	38.41	

High Group 176 KC Loss N Channel 2 ON Carrier 1	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.48	.96	1.43	1.91	2.39	2.87	3.35	3.82	4.30
1	4.78	5.26	5.74	6.21	6.69	7.17	7.65	8.13	8.60	9.08	
2	9.56	10.04	10.52	10.99	11.47	11.95	12.43	12.91	13.38	13.86	
3	14.34	14.82	15.30	15.77	16.25	16.73	17.21	17.69	18.16	18.64	
4	19.12	19.60	20.08	20.55	21.03	21.51	21.99	22.47	22.94	23.42	
5	23.90	24.38	24.86	25.33	25.81	26.29	26.77	27.25	27.72	28.20	
6	28.68	29.16	29.64	30.11	30.59	31.07	31.55	32.03	32.50	32.98	
7	33.46	33.94	34.42	34.89	35.37	35.85	36.33	36.81	37.28	37.76	
8	38.24	38.72	39.20	39.67	40.15	40.63	41.11	41.59	42.06	42.54	
9	43.02	43.50	43.98	44.45	44.93	45.41	45.89	46.37	46.84	47.32	

Low Group Positive (+) Slope (Difference between 128 KC and 40 KC Losses)	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.18	.35	.53	.70	.88	1.05	1.23	1.40	1.58
1	1.75	1.93	2.10	2.28	2.45	2.63	2.80	2.98	3.15	3.33	
2	3.50	3.68	3.85	4.03	4.20	4.38	4.55	4.73	4.90	5.08	
3	5.25	5.43	5.60	5.78	5.95	6.13	6.30	6.48	6.65	6.83	
4	7.00	7.18	7.35	7.53	7.70	7.88	8.05	8.23	8.40	8.58	
5	8.75	8.93	9.10	9.28	9.45	9.63	9.80	9.98	10.15	10.33	
6	10.50	10.68	10.85	11.03	11.20	11.38	11.55	11.73	11.90	12.08	
7	12.25	12.43	12.60	12.78	12.95	13.13	13.30	13.48	13.65	13.83	
8	14.00	14.18	14.35	14.53	14.70	14.88	15.05	15.23	15.40	15.58	
9	15.75	15.93	16.10	16.28	16.45	16.63	16.80	16.98	17.15	17.33	

High Group Negative (-) Slope (Difference between 264 KC and 176 KC Losses)	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.14	.28	.42	.56	.70	.84	.98	1.12	1.26
1	1.40	1.54	1.68	1.82	1.96	2.10	2.24	2.38	2.52	2.66	
2	2.80	2.94	3.08	3.22	3.36	3.50	3.64	3.78	3.92	4.06	
3	4.20	4.34	4.48	4.62	4.76	4.90	5.04	5.18	5.32	5.46	
4	5.60	5.74	5.88	6.02	6.16	6.30	6.44	6.58	6.72	6.86	
5	7.00	7.14	7.28	7.42	7.56	7.70	7.84	7.98	8.12	8.26	
6	8.40	8.54	8.68	8.82	8.96	9.10	9.24	9.38	9.52	9.66	
7	9.80	9.94	10.08	10.22	10.36	10.50	10.64	10.78	10.92	11.06	
8	11.20	11.34	11.48	11.62	11.76	11.90	12.04	12.18	12.32	12.46	
9	12.60	12.74	12.88	13.02	13.16	13.30	13.44	13.58	13.72	13.86	