

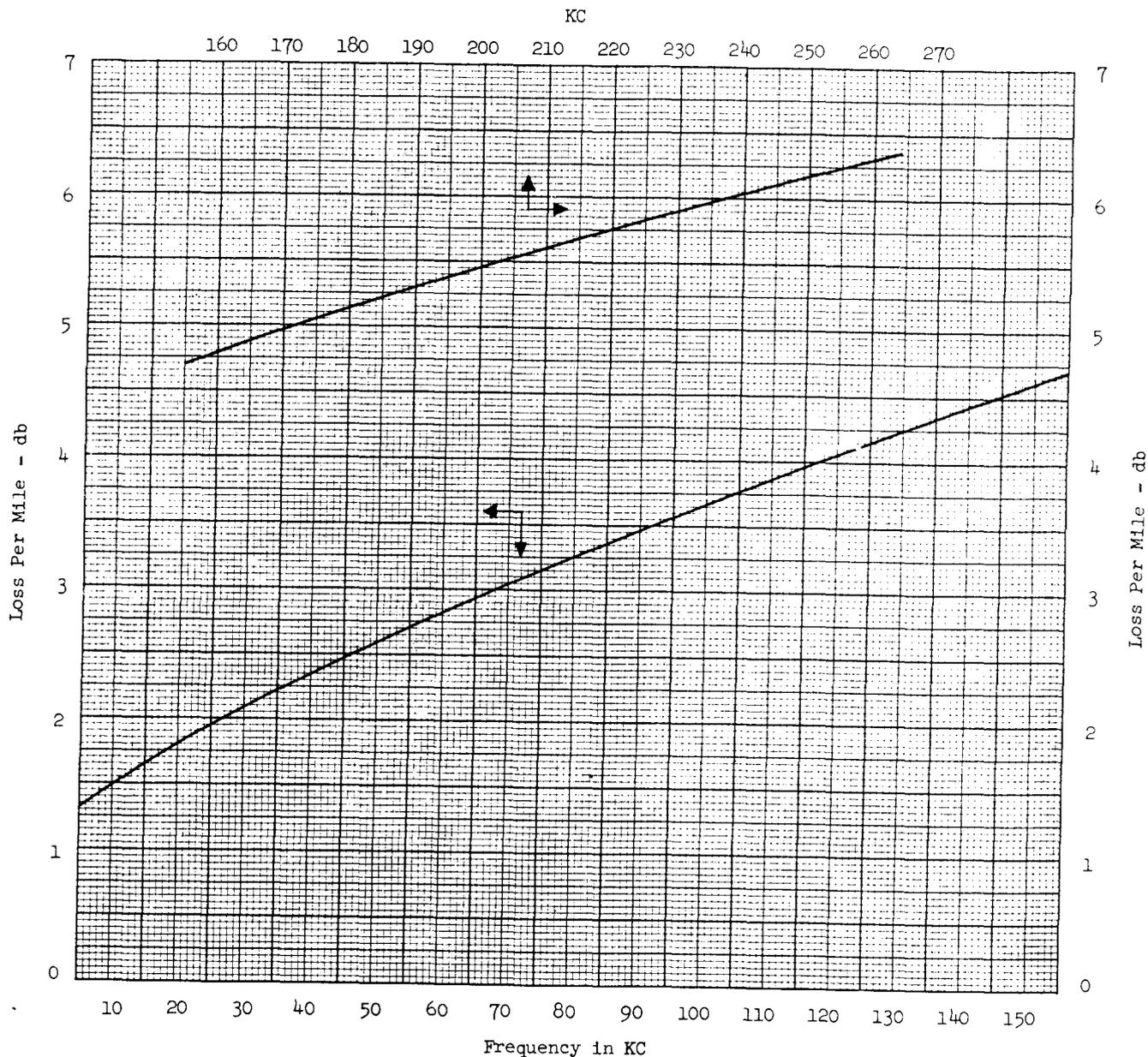
CABLE LOSSES AT CARRIER FREQUENCIES

16 GAUGE NH CABLE

(.066 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)	1.55	2.03	2.75	2.82	2.34	4.20	5.04	6.36
Temp. Coefficient (db/mi./10°F.)	.032	.031	.030	.030	.031	.032	.035	.040

16 GAUGE NH CABLE
(.066 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		.42	.84	1.26	1.68	2.10	2.52	2.94	3.36
1		4.20	4.62	5.04	5.46	5.88	6.30	6.72	7.14	7.56	7.98
2		8.40	8.82	9.24	9.66	10.08	10.50	10.92	11.34	11.76	12.18
3		12.60	13.02	13.44	13.86	14.28	14.70	15.12	15.54	15.96	16.38
4		16.80	17.22	17.64	18.06	18.48	18.90	19.32	19.74	20.16	20.58
5		21.00	21.42	21.84	22.26	22.68	23.10	23.52	23.94	24.36	24.78
6		25.20	25.62	26.04	26.46	26.88	27.30	27.72	28.14	28.56	28.98
7		29.40	29.82	30.24	30.66	31.08	31.50	31.92	32.34	32.76	33.18
8		33.60	34.02	34.44	34.86	35.28	35.70	36.12	36.54	36.96	37.38
9		37.80	38.22	38.64	39.06	39.48	39.90	40.32	40.74	41.16	41.58

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	High Group 176 KC Loss N Channel 2 ON Carrier 1	0		.50	1.01	1.51	2.02	2.52	3.02	3.53	4.03
1		5.04	5.54	6.05	6.55	7.05	7.56	8.06	8.57	9.07	9.57
2		10.08	10.58	11.09	11.59	12.09	12.60	13.10	13.61	14.11	14.61
3		15.12	15.62	16.13	16.63	17.13	17.64	18.14	18.65	19.15	19.65
4		20.16	20.66	21.17	21.67	22.17	22.68	23.18	23.69	24.19	24.69
5		25.20	25.70	26.21	26.71	27.21	27.72	28.22	28.73	29.23	29.73
6		30.24	30.74	31.25	31.75	32.25	32.76	33.26	33.77	34.27	34.77
7		35.28	35.78	36.29	36.79	37.29	37.80	38.30	38.81	39.31	39.81
8		40.32	40.82	41.33	41.83	42.33	42.84	43.34	43.85	44.35	44.85
9		45.36	45.86	46.37	46.87	47.37	47.88	48.38	48.89	49.39	49.89

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	Low Group Positive (+) Slope (Difference between 128 KC and 40 KC Losses)	0		.19	.38	.56	.75	.94	1.13	1.32	1.50
1		1.88	2.07	2.26	2.44	2.63	2.82	3.01	3.20	3.38	3.57
2		3.76	3.95	4.14	4.32	4.51	4.70	4.89	5.08	5.26	5.45
3		5.64	5.83	6.02	6.20	6.39	6.58	6.77	6.96	7.15	7.34
4		7.52	7.71	7.90	8.09	8.28	8.46	8.65	8.84	9.03	9.22
5		9.40	9.59	9.78	9.96	10.15	10.34	10.53	10.72	10.90	11.09
6		11.28	11.47	11.66	11.84	12.03	12.22	12.41	12.60	12.78	12.97
7		13.16	13.35	13.54	13.72	13.91	14.10	14.29	14.48	14.66	14.85
8		15.04	15.23	15.42	15.61	15.79	15.98	16.17	16.36	16.55	16.73
9		16.92	17.11	17.30	17.49	17.67	17.86	18.05	18.24	18.43	18.61

	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	High Group Negative (-) Slope (Difference between 264 KC and 176 KC Losses)	0		.13	.26	.39	.52	.66	.79	.92	1.05
1		1.31	1.44	1.57	1.70	1.83	1.97	2.10	2.23	2.36	2.49
2		2.62	2.75	2.88	3.01	3.15	3.28	3.41	3.54	3.67	3.80
3		3.93	4.06	4.20	4.33	4.46	4.59	4.72	4.85	4.98	5.11
4		5.24	5.37	5.50	5.63	5.76	5.90	6.03	6.16	6.29	6.42
5		6.55	6.68	6.81	6.94	7.07	7.21	7.34	7.47	7.60	7.73
6		7.86	7.99	8.12	8.25	8.38	8.52	8.65	8.78	8.91	9.04
7		9.17	9.30	9.43	9.56	9.69	9.83	9.96	10.09	10.22	10.35
8		10.48	10.61	10.75	10.88	11.01	11.14	11.27	11.40	11.53	11.66
9		11.79	11.92	12.05	12.18	12.31	12.44	12.58	12.71	12.84	12.97