

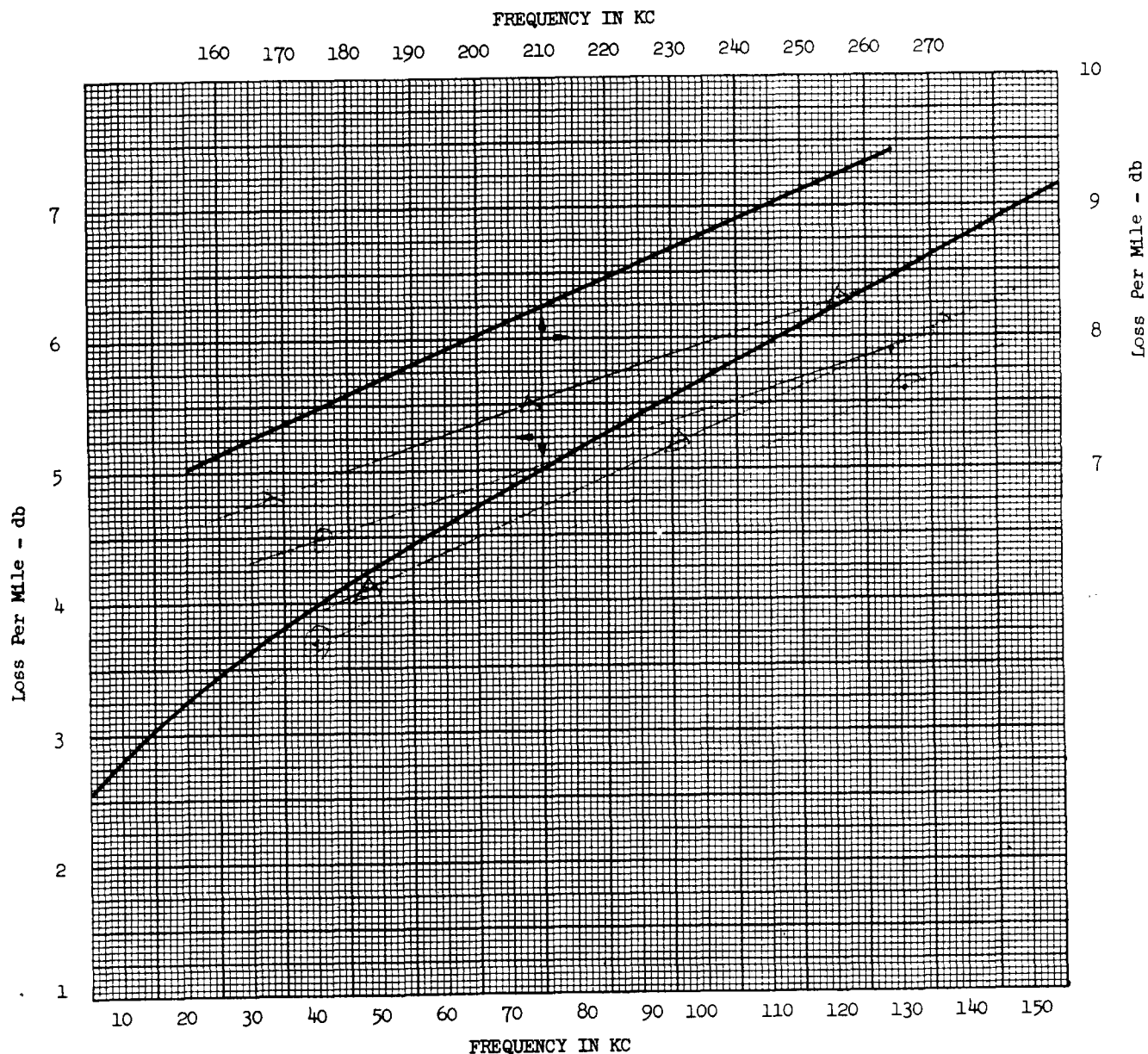
## CABLE LOSSES AT CARRIER FREQUENCIES

### 19 GAUGE PIC CABLE

(.083 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)	2.83	3.55	4.46	4.53	3.96	6.40	7.52	9.43
Temp. Coefficient (db/mi./10°F.)	.045	.057	.071	.071	.063	.070	.068	.075

**19 GAUGE PIC CABLE**  
(.083 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		.64	1.28	1.92	2.56	3.20	3.84	4.48	5.12	5.76
	1	6.40	7.04	7.68	8.32	8.96	9.60	10.24	10.88	11.52	12.16
	2	12.80	13.44	14.08	14.72	15.36	16.00	16.64	17.28	17.92	18.56
	3	19.20	19.84	20.48	21.12	21.76	22.40	23.04	23.68	24.32	24.96
	4	25.60	26.24	26.88	27.52	28.16	28.80	29.44	30.08	30.72	31.36
	5	32.00	32.64	33.28	33.92	34.56	35.20	35.84	36.48	37.12	37.76
	6	38.40	39.04	39.68	40.32	40.96	41.60	42.24	42.88	43.52	44.16
	7	44.80	45.44	46.08	46.72	47.36	48.00	48.64	49.28	49.92	50.56
	8	51.20	51.84	52.48	53.12	53.76	54.40	55.04	55.68	56.32	56.96
	9	57.60	58.24	58.88	59.52	60.16	60.80	61.44	62.08	62.72	63.36

High Group 176 KC Loss N Channel 2 ON Carrier 1	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.75	1.50	2.26	3.01	3.76	4.51	5.26	6.02	6.77
	1	7.52	8.27	9.02	9.78	10.53	11.28	12.03	12.78	13.54	14.29
	2	15.04	15.79	16.54	17.30	18.05	18.80	19.55	20.30	21.06	21.81
	3	22.56	23.31	24.06	24.82	25.57	26.32	27.07	27.82	28.58	29.33
	4	30.08	30.83	31.58	32.34	33.09	33.84	34.59	35.34	36.10	36.85
	5	37.60	38.35	39.10	39.86	40.61	41.36	42.11	42.86	43.62	44.37
	6	45.12	45.87	46.62	47.38	48.13	48.88	49.63	50.38	51.14	51.89
	7	52.64	53.39	54.14	54.90	55.65	56.40	57.15	57.90	58.66	59.41
	8	60.16	60.91	61.66	62.42	63.17	63.92	64.67	65.42	66.18	66.93
	9	67.68	68.43	69.18	69.94	70.69	71.44	72.19	72.94	73.70	74.45

Low Group Positive (+) Slope (Difference between 128 KC and 40 KC Losses)	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.24	.49	.73	.98	1.22	1.46	1.71	1.95	2.20
	1	2.44	2.68	2.93	3.17	3.42	3.66	3.90	4.15	4.39	4.64
	2	4.88	5.12	5.37	5.61	5.86	6.10	6.34	6.59	6.83	7.08
	3	7.32	7.56	7.81	8.05	8.30	8.54	8.78	9.03	9.27	9.52
	4	9.76	10.00	10.25	10.49	10.74	10.98	11.22	11.47	11.71	11.96
	5	12.20	12.44	12.69	12.93	13.18	13.42	13.66	13.91	14.15	14.40
	6	14.64	14.88	15.13	15.37	15.62	15.86	16.10	16.35	16.59	16.84
	7	17.08	17.32	17.57	17.81	18.06	18.30	18.54	18.79	19.03	19.28
	8	19.52	19.76	20.01	20.25	20.50	20.74	20.98	21.23	21.47	21.72
	9	21.96	22.20	22.45	22.69	22.94	23.18	23.42	23.67	23.91	24.16

High Group Negative (-) Slope (Difference between 264 KC and 176 KC Losses)	MILES	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	0		.19	.38	.57	.76	.95	1.15	1.34	1.53	1.72
	1	1.91	2.10	2.29	2.48	2.67	2.87	3.06	3.25	3.44	3.63
	2	3.82	4.01	4.20	4.39	4.58	4.77	4.97	5.16	5.35	5.54
	3	5.73	5.92	6.11	6.30	6.49	6.68	6.88	7.07	7.26	7.45
	4	7.64	7.83	8.02	8.21	8.40	8.59	8.79	8.98	9.17	9.36
	5	9.55	9.74	9.93	10.12	10.31	10.50	10.70	10.89	11.08	11.27
	6	11.46	11.65	11.84	12.03	12.22	12.41	12.61	12.80	12.99	13.18
	7	13.37	13.56	13.75	13.94	14.13	14.32	14.52	14.71	14.90	15.09
	8	15.28	15.47	15.66	15.85	16.04	16.23	16.43	16.62	16.81	17.00
	9	17.19	17.38	17.57	17.76	17.95	18.14	18.34	18.53	18.72	18.91