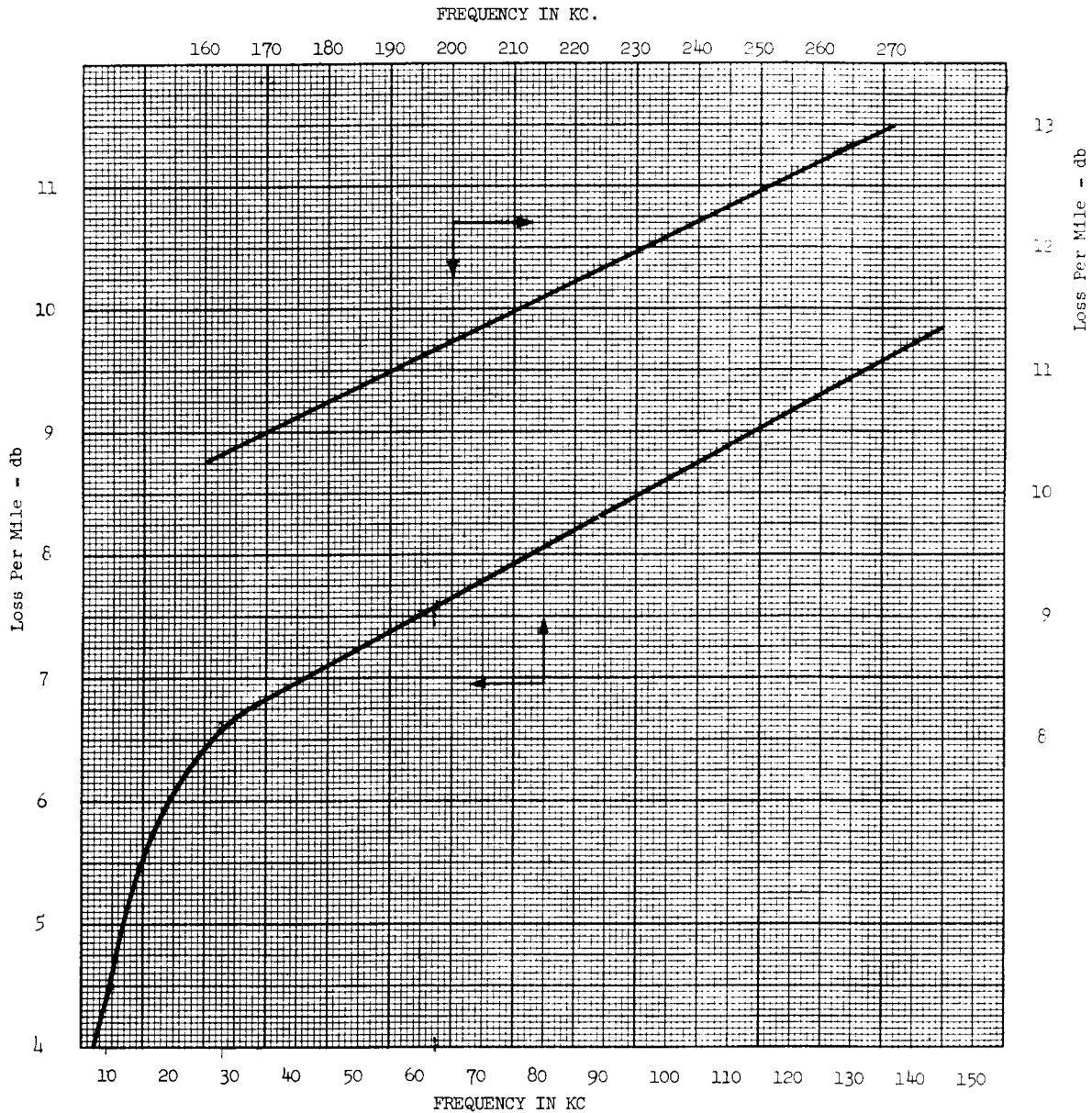


CABLE LOSSES AT CARRIER FREQUENCIES
22 GAUGE PIC CABLE
(.083 mf/mile)

Losses in db/mile at 55°F.*

*Applies to a pair having nominal capacitance; measured losses may vary ±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) | 5.10 | 6.60 | 7.45 | 7.55 | 6.95 | 9.41 | 10.65 | 12.85 |
| Temp. Coefficient (db/mi./10°F.) | .082 | .106 | .118 | .119 | .111 | .103 | .096 | .103 |

22 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 | | .94 | 1.88 | 2.82 | 3.76 | 4.71 | 5.65 | 6.59 | 7.53 | 8.47 |
| | 1 | 9.41 | 10.35 | 11.29 | 12.23 | 13.17 | 14.12 | 15.06 | 16.00 | 16.94 | 17.88 |
| | 2 | 18.82 | 19.76 | 20.70 | 21.64 | 22.58 | 23.53 | 24.47 | 25.41 | 26.35 | 27.29 |
| | 3 | 28.23 | 29.17 | 30.11 | 31.05 | 31.99 | 32.94 | 33.88 | 34.82 | 35.76 | 36.70 |
| | 4 | 37.64 | 38.58 | 39.52 | 40.46 | 41.40 | 42.35 | 43.29 | 44.23 | 45.17 | 46.11 |
| | 5 | 47.05 | 47.99 | 48.93 | 49.87 | 50.81 | 51.76 | 52.70 | 53.64 | 54.58 | 55.52 |
| | 6 | 56.46 | 57.40 | 58.34 | 59.28 | 60.22 | 61.17 | 62.11 | 63.05 | 63.99 | 64.93 |
| | 7 | 65.87 | 66.81 | 67.75 | 68.69 | 69.63 | 70.58 | 71.52 | 72.46 | 73.40 | 74.34 |
| | 8 | 75.28 | 76.22 | 77.16 | 78.10 | 79.04 | 79.99 | 80.93 | 81.87 | 82.81 | 83.75 |
| 9 | 84.69 | 85.63 | 86.57 | 87.51 | 88.45 | 89.40 | 90.34 | 91.28 | 92.22 | 93.16 | |
| High Group 176 KC Loss N Channel 2 ON Carrier 1 | MILES | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 |
| | 0 | | 1.07 | 2.13 | 3.20 | 4.26 | 5.33 | 6.39 | 7.46 | 8.52 | 9.59 |
| | 1 | 10.65 | 11.72 | 12.78 | 13.85 | 14.91 | 15.98 | 17.04 | 18.11 | 19.17 | 20.24 |
| | 2 | 21.30 | 22.37 | 23.43 | 24.50 | 25.56 | 26.63 | 27.69 | 28.76 | 29.82 | 30.89 |
| | 3 | 31.95 | 33.02 | 34.08 | 35.15 | 36.21 | 37.28 | 38.34 | 39.41 | 40.47 | 41.54 |
| | 4 | 42.60 | 43.67 | 44.73 | 45.80 | 46.86 | 47.93 | 48.99 | 50.06 | 51.12 | 52.19 |
| | 5 | 53.25 | 54.32 | 55.38 | 56.45 | 57.51 | 58.58 | 59.64 | 60.71 | 61.77 | 62.84 |
| | 6 | 63.90 | 64.97 | 66.03 | 67.10 | 68.16 | 69.23 | 70.29 | 71.36 | 72.42 | 73.49 |
| | 7 | 74.55 | 75.62 | 76.68 | 77.75 | 78.81 | 79.88 | 80.94 | 82.01 | 83.07 | 84.14 |
| | 8 | 85.20 | 86.27 | 87.33 | 88.40 | 89.46 | 90.53 | 91.59 | 92.66 | 93.72 | 94.79 |
| 9 | 95.85 | 96.92 | 97.98 | 99.05 | 100.11 | 101.18 | 102.24 | 103.31 | 104.37 | 105.44 | |
| Low Group Positive (+) Slope (Difference between 128 KC and 40 KC Losses) | MILES | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 |
| | 0 | | .25 | .49 | .74 | .98 | 1.23 | 1.48 | 1.72 | 1.97 | 2.21 |
| | 1 | 2.46 | 2.71 | 2.95 | 3.20 | 3.44 | 3.69 | 3.94 | 4.18 | 4.43 | 4.67 |
| | 2 | 4.92 | 5.17 | 5.41 | 5.66 | 5.90 | 6.15 | 6.40 | 6.64 | 6.89 | 7.13 |
| | 3 | 7.38 | 7.63 | 7.87 | 8.12 | 8.36 | 8.61 | 8.86 | 9.10 | 9.35 | 9.59 |
| | 4 | 9.84 | 10.09 | 10.33 | 10.58 | 10.82 | 11.07 | 11.32 | 11.56 | 11.81 | 12.05 |
| | 5 | 12.30 | 12.55 | 12.79 | 13.04 | 13.28 | 13.53 | 13.78 | 14.02 | 14.27 | 14.51 |
| | 6 | 14.76 | 15.01 | 15.25 | 15.50 | 15.74 | 15.99 | 16.24 | 16.48 | 16.73 | 16.97 |
| | 7 | 17.22 | 17.47 | 17.71 | 17.96 | 18.20 | 18.45 | 18.70 | 18.94 | 19.19 | 19.43 |
| | 8 | 19.68 | 19.93 | 20.17 | 20.42 | 20.66 | 20.91 | 21.16 | 21.40 | 21.65 | 21.89 |
| 9 | 22.14 | 22.39 | 22.63 | 22.88 | 23.12 | 23.37 | 23.62 | 23.86 | 24.11 | 24.35 | |
| High Group Negative (-) Slope (Difference between 264 KC and 176 KC Losses) | MILES | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 |
| | 0 | | .22 | .44 | .66 | .88 | 1.10 | 1.32 | 1.54 | 1.76 | 1.98 |
| | 1 | 2.20 | 2.42 | 2.64 | 2.86 | 3.08 | 3.30 | 3.52 | 3.74 | 3.96 | 4.18 |
| | 2 | 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 | 17.60 | 17.82 | 18.04 | 18.26 | 18.48 | 18.70 | 18.92 | 19.14 | 19.36 | 19.58 |
| 9 | 19.80 | 20.02 | 20.24 | 20.46 | 20.68 | 20.90 | 21.12 | 21.34 | 21.56 | 21.78 | |