

CARRIER FREQUENCY CROSSTALK - 13, 16, AND 19 GAUGE

TOLL ENTRANCE CABLES

Within Quad Couplings

Estimated Near-End Crosstalk Coupling in 1 Mile* of Cable - 140 Kc

<u>Type of Cable</u>	<u>Crosstalk Coupling (Db)</u>	
	<u>Rms</u>	<u>Worst</u>
13 Gauge	62	56
16 "	58	45
19 "	60	55

* 1 mile data may be used with reasonable accuracy for all cables exceeding 1 mile in length.

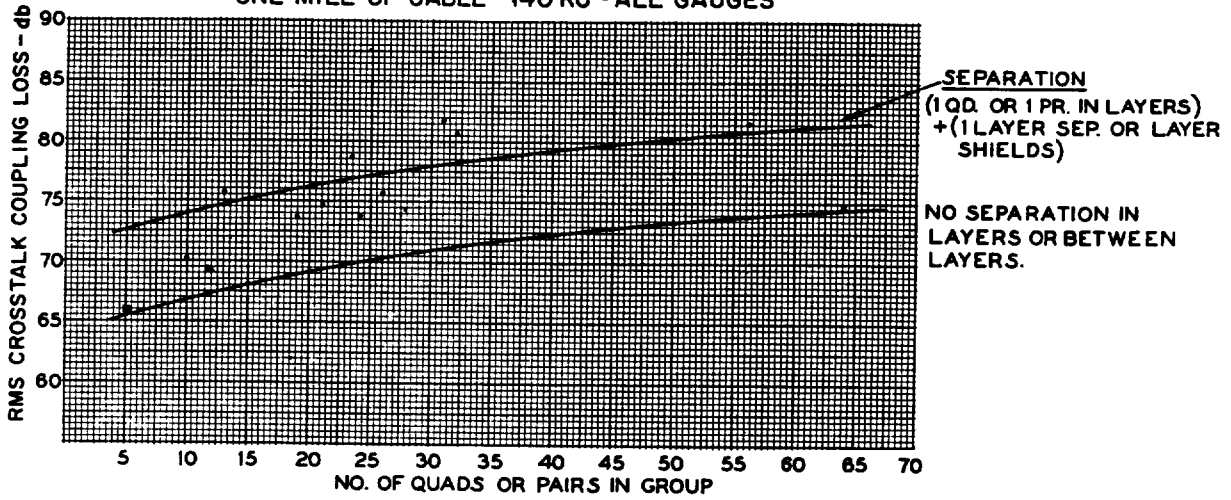
Estimated Far-End Crosstalk Coupling in 1 Mile of Cable - 140 Kc

<u>Type of Cable</u>	<u>Crosstalk Coupling (Db)</u>	
	<u>Rms</u>	<u>Worst</u>
13 Gauge	61	54
16 "	60	49
19 "	63	46

Pair-to-pair couplings are shown on Page 2.

PAIR-TO-PAIR COUPLINGS

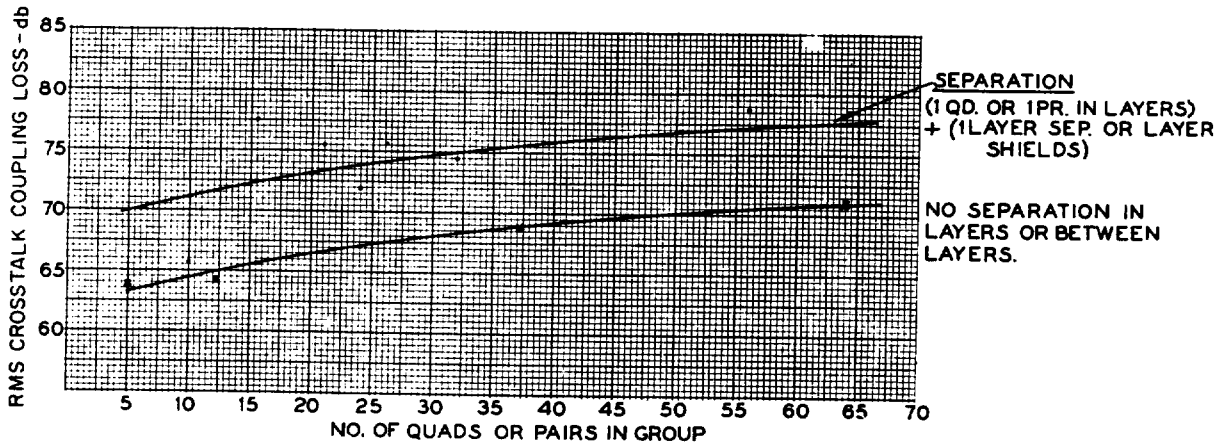
ESTIMATED RMS FAR END CROSSTALK COUPLING IN ONE MILE OF CABLE-140 KC-ALL GAUGES



NOTES:-

1. ACCURACY OF CURVES : PLUS OR MINUS 6 db.
2. CORRECT FOR DIFFERENT DISTANCE BY SUBTRACTING $10 \log_{10} L$ FROM RMS
3. WORST COUPLING 7db LESS THAN RMS.
4. CORRECT FOR DIFFERENT FREQUENCY BY ADDING $20 \log_{10} \frac{140}{\text{FREQ.}}$ TO 140 KC LOSS.

ESTIMATED RMS NEAR END CROSSTALK COUPLING IN ONE MILE OF CABLE-140 KC-ALL GAUGES



NOTES:-

1. ACCURACY OF CURVES : PLUS OR MINUS 6db.
2. NO CORRECTION NEEDED FOR DISTANCES EXCEEDING ONE MILE.
3. WORST COUPLING 7db LESS THAN RMS.
4. CORRECT FOR DIFFERENT FREQUENCY BY ADDING FOLLOWING VALUES TO 140 KC VALUES:

160 KC = -0.5	80 KC = 2.6
140 KC = 0	60 KC = 4.3
120 KC = 0.5	40 KC = 6.9
100 KC = 1.4	10 KC = 13.5