BELL SYSTEM PRACTICES Plant Series

INSERTION LOSS OF OFFICE CABLE 0.5 TO 3.5 kHz

1. GENERAL

1.01 This section presents the insertion loss of several types of office cable, simulated by an R-C lattice network of the appropriate length, as measured between 600-ohm and 900-ohm terminations. The losses are given as loss-frequency curves for three types of cable: that used in electromechanical offices, ESS offices, and a new low-capacitance type.

1.02 In electromechanical offices, typical office cable consists of 22- or 24-gauge wire with either plastic (coded in the A series) or textile (coded in the CL and M series) insulation. The nominal capacitance for both is $.025\mu$ F per kilofoot.

1.03 ESS offices are designed to use 26-gauge cable with plastic insulation, and coded in

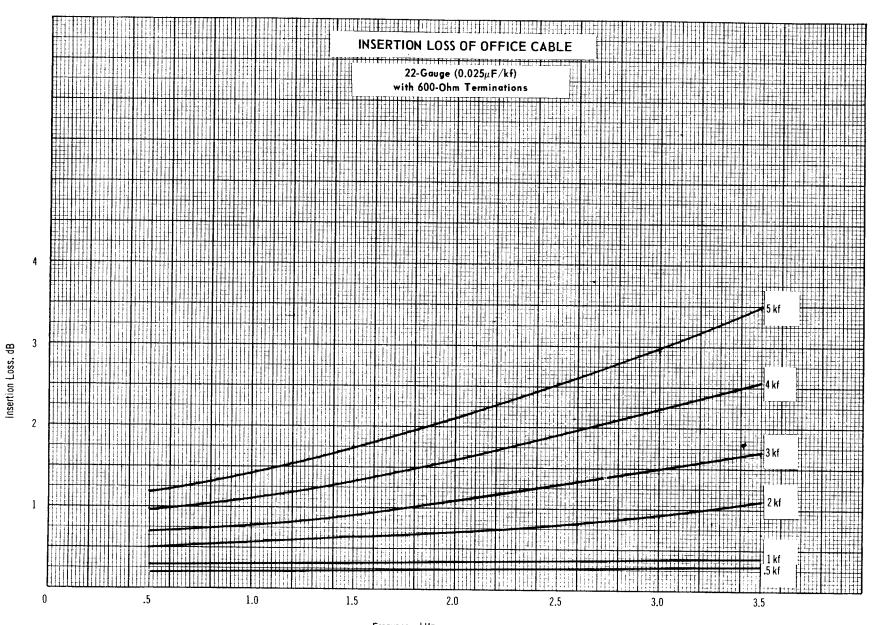
the 800A series. Its nominal capacitance is $.020\mu$ F per kilofoot.

1.04 A cable with a new type of plastic insulation is being developed with the objective of reducing the capacitance to $.016\mu$ F per kilofoot to match the capacitance of outside plant.

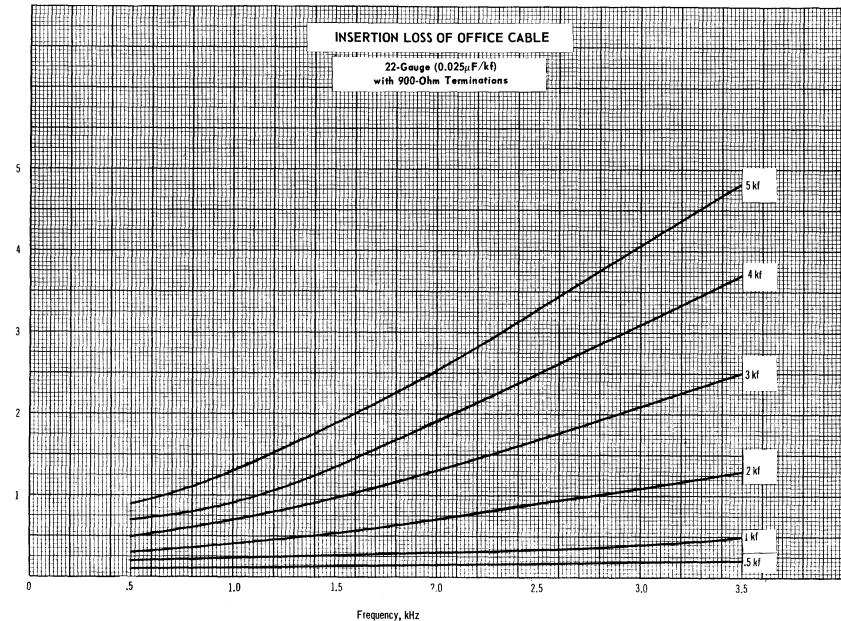
2. INDEX OF CHARTS

GAUGE		22 600Ω 900Ω		24 600Ω 900Ω		<u>26</u> 600Ω <u>900Ω</u>	
CABLE CAPACITANCE µF per Kf.			PAGE	NO.			
.025	2	3	4	5	_	-	
.020	_	_	_	-	6	7	
.016	8	9	10	11	12	13	

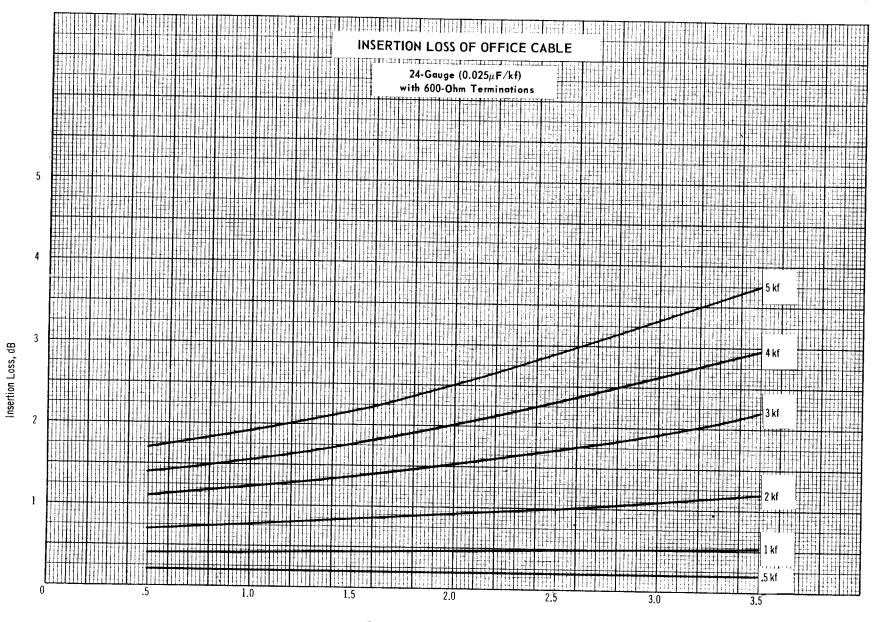
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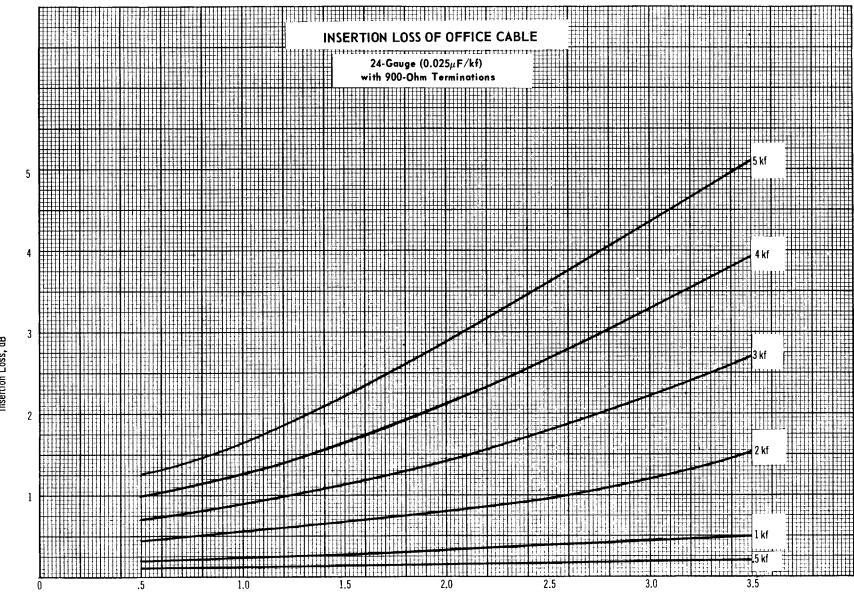
Frequency, kHz



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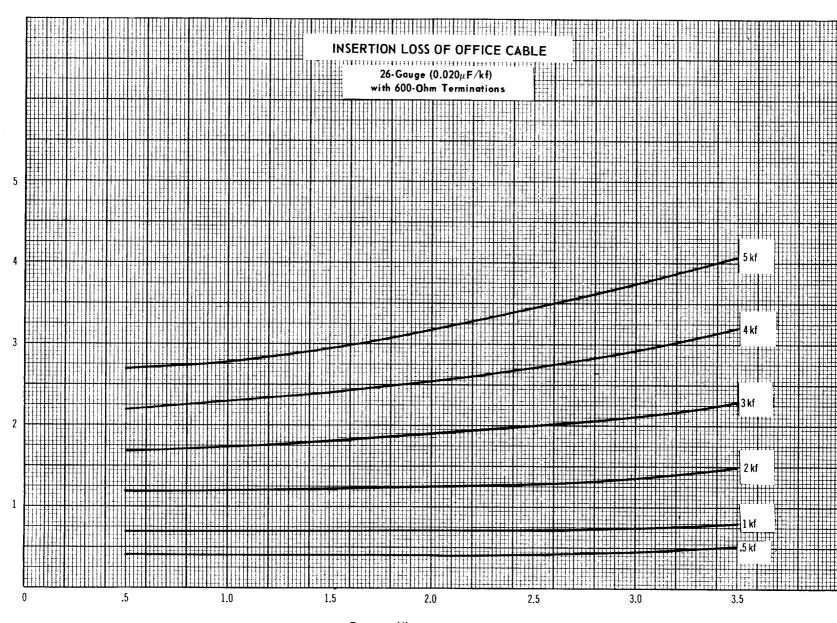
Frequency, kHz



Frequency, kHz

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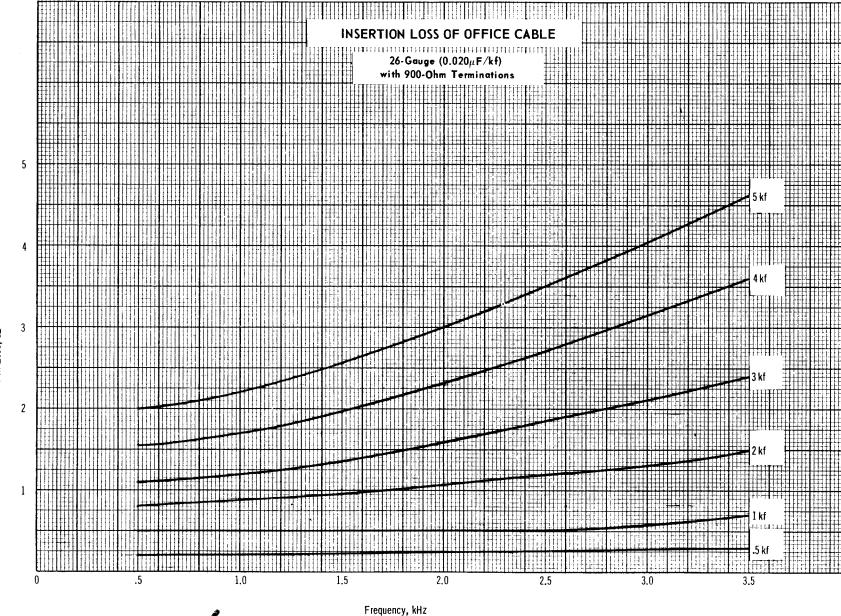
Insertion Loss, dB



SECTION 304-300-103

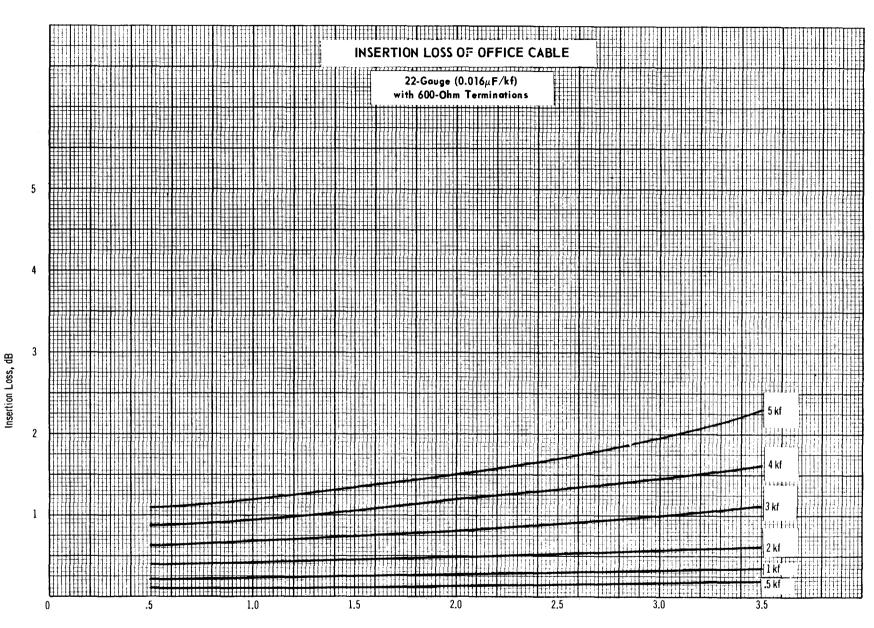
Frequency, kHz

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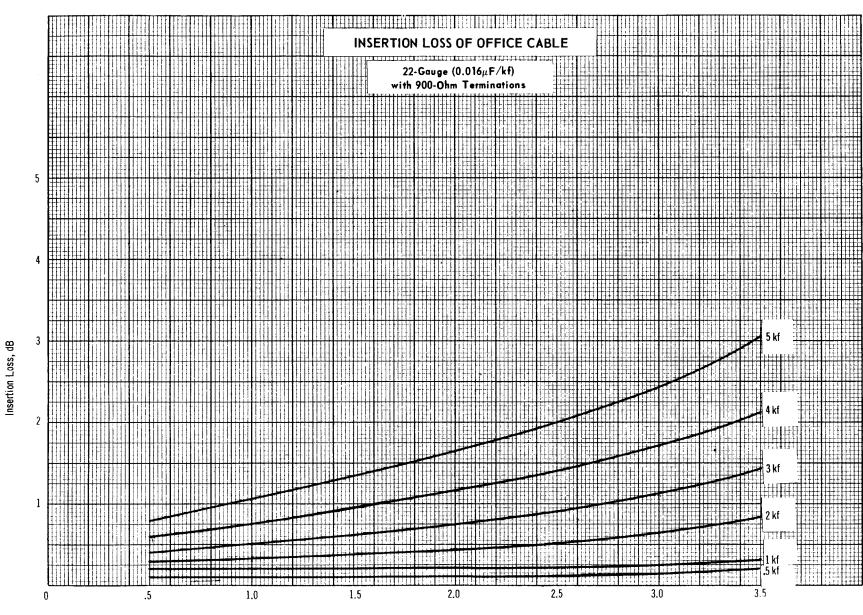


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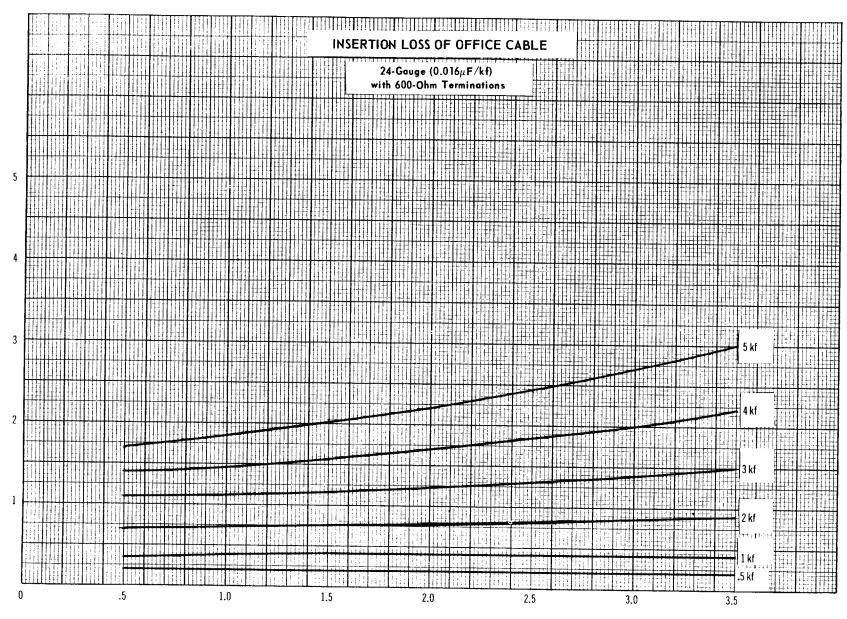
Frequency, kHz



Frequency, kHz

ISS 1, SECTION 304-300-103

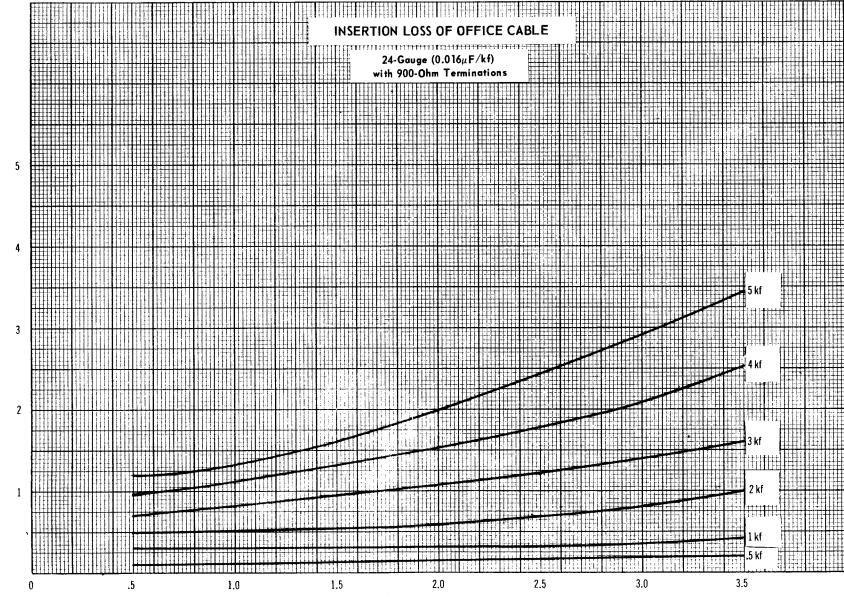
Insertion Loss, dB



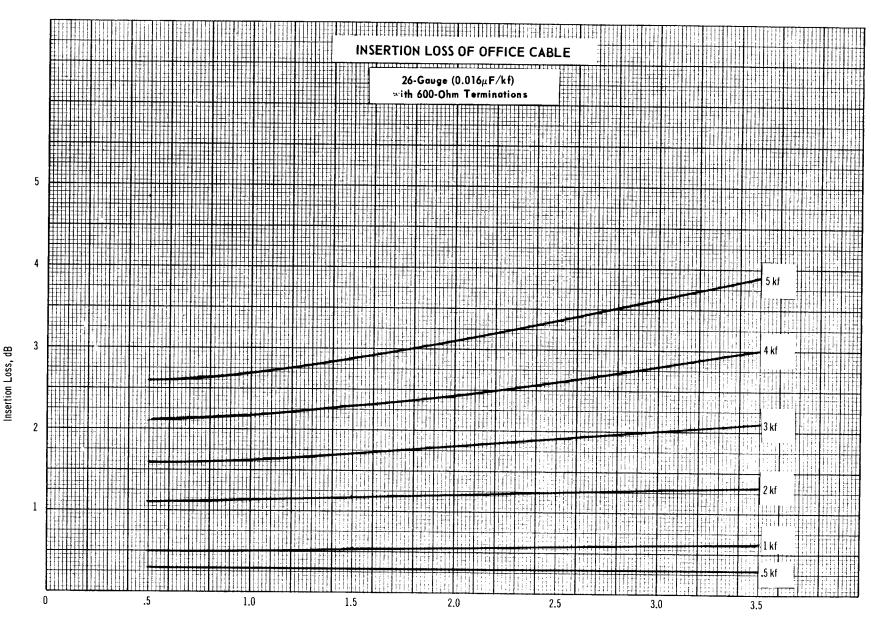
Frequency, kHz







Frequency, kHz



Frequency, kHz





