

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 $.025\mu\text{F}$ per kilofoot.

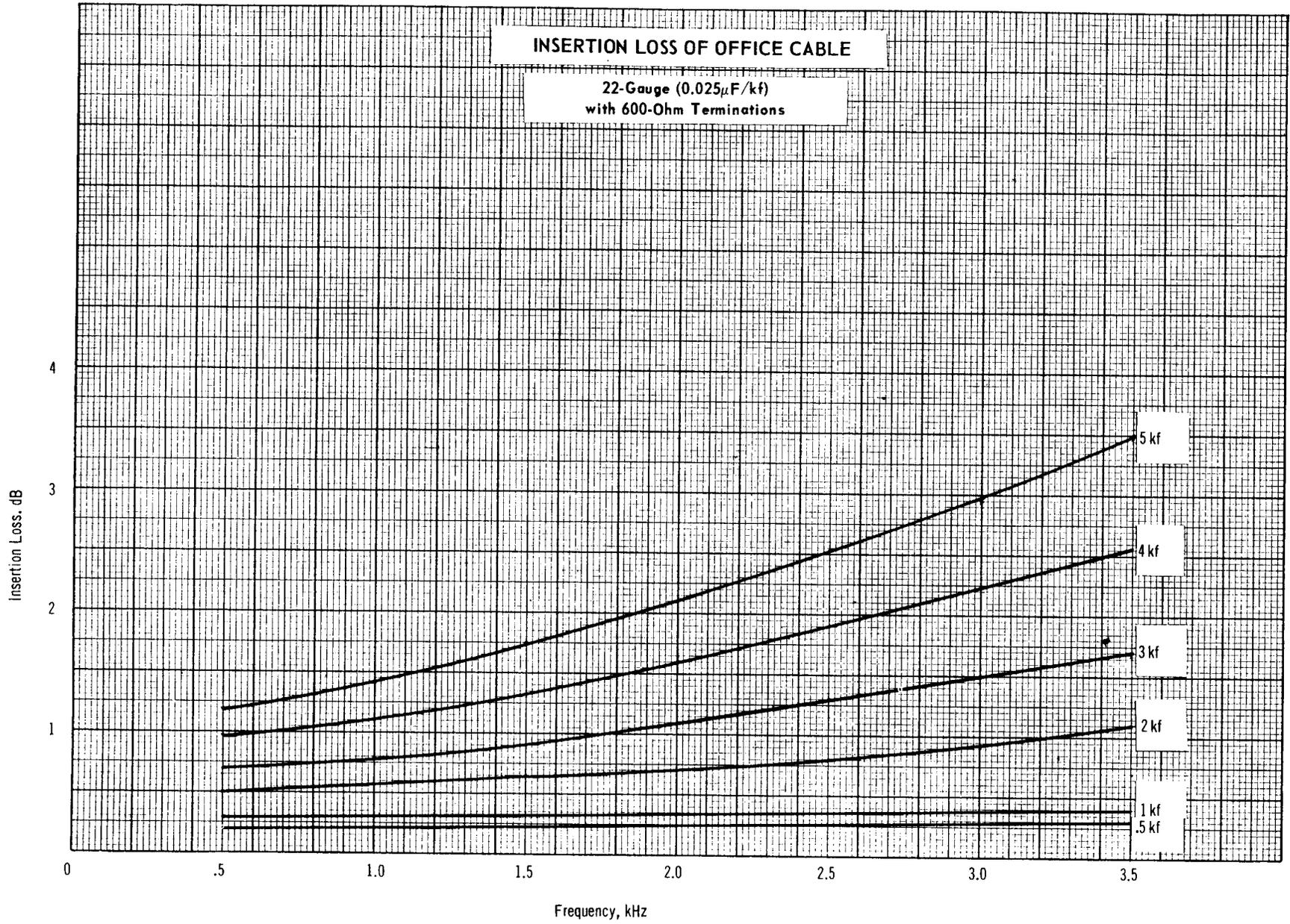
1.03 ESS offices are designed to use 26-gauge cable with plastic insulation, and coded in

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

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

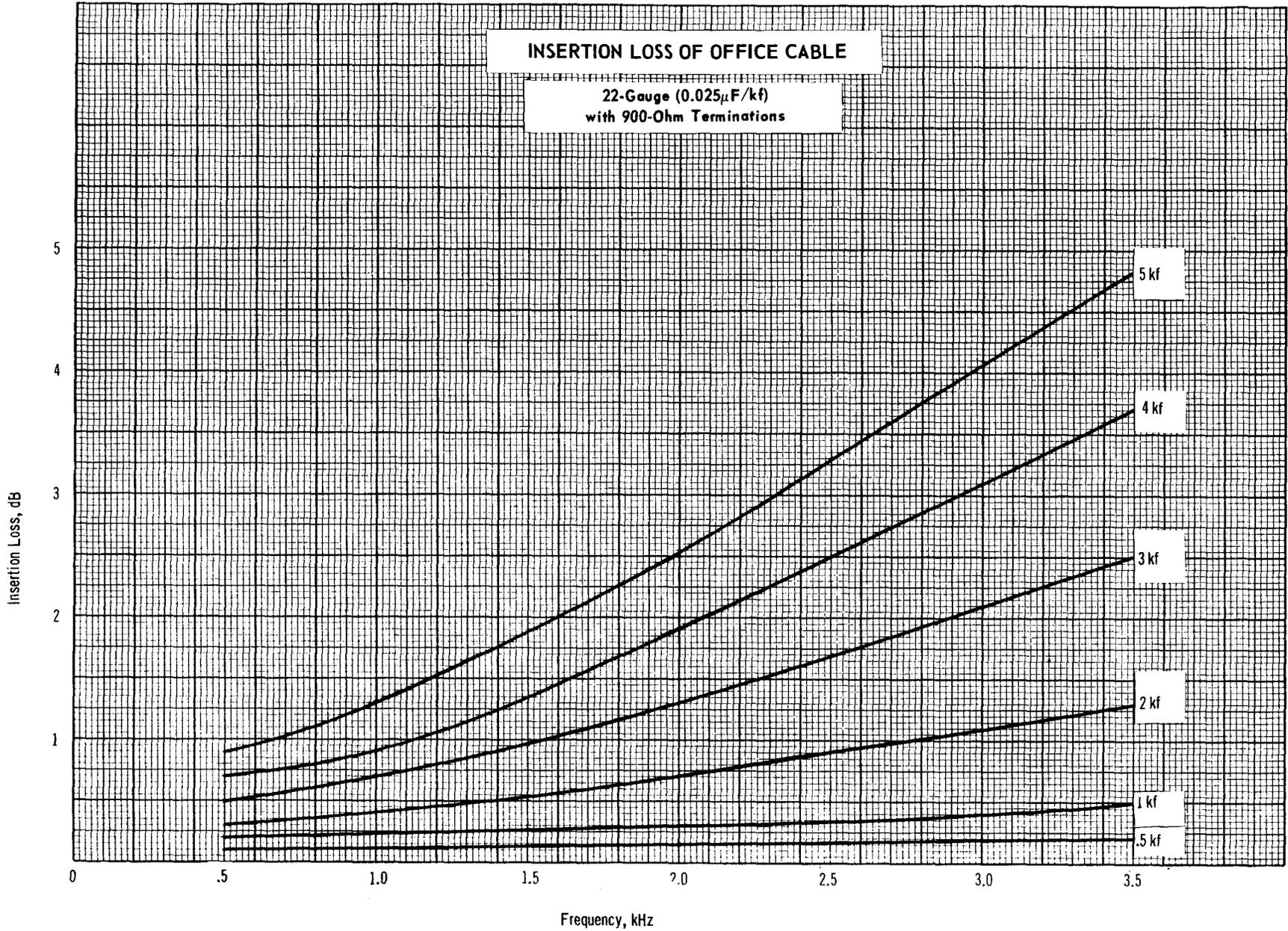
2. INDEX OF CHARTS

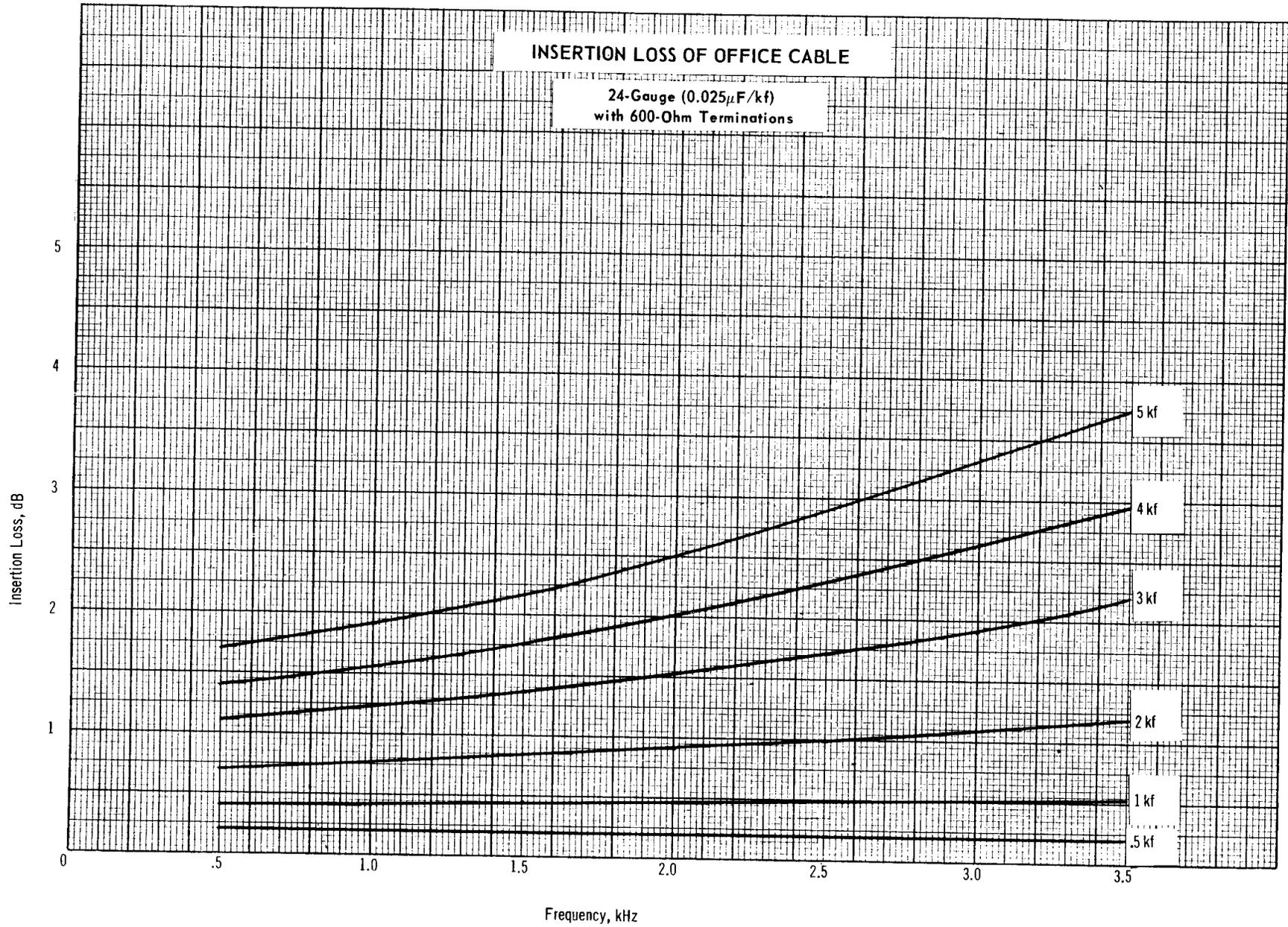
GAUGE → TERMINATIONS →	22		24		26	
	600Ω	900Ω	600Ω	900Ω	600Ω	900Ω
CABLE CAPACITANCE μF per Kf.	<u>PAGE NO.</u>					
.025	2	3	4	5	-	-
.020	-	-	-	-	6	7
.016	8	9	10	11	12	13



INSERTION LOSS OF OFFICE CABLE

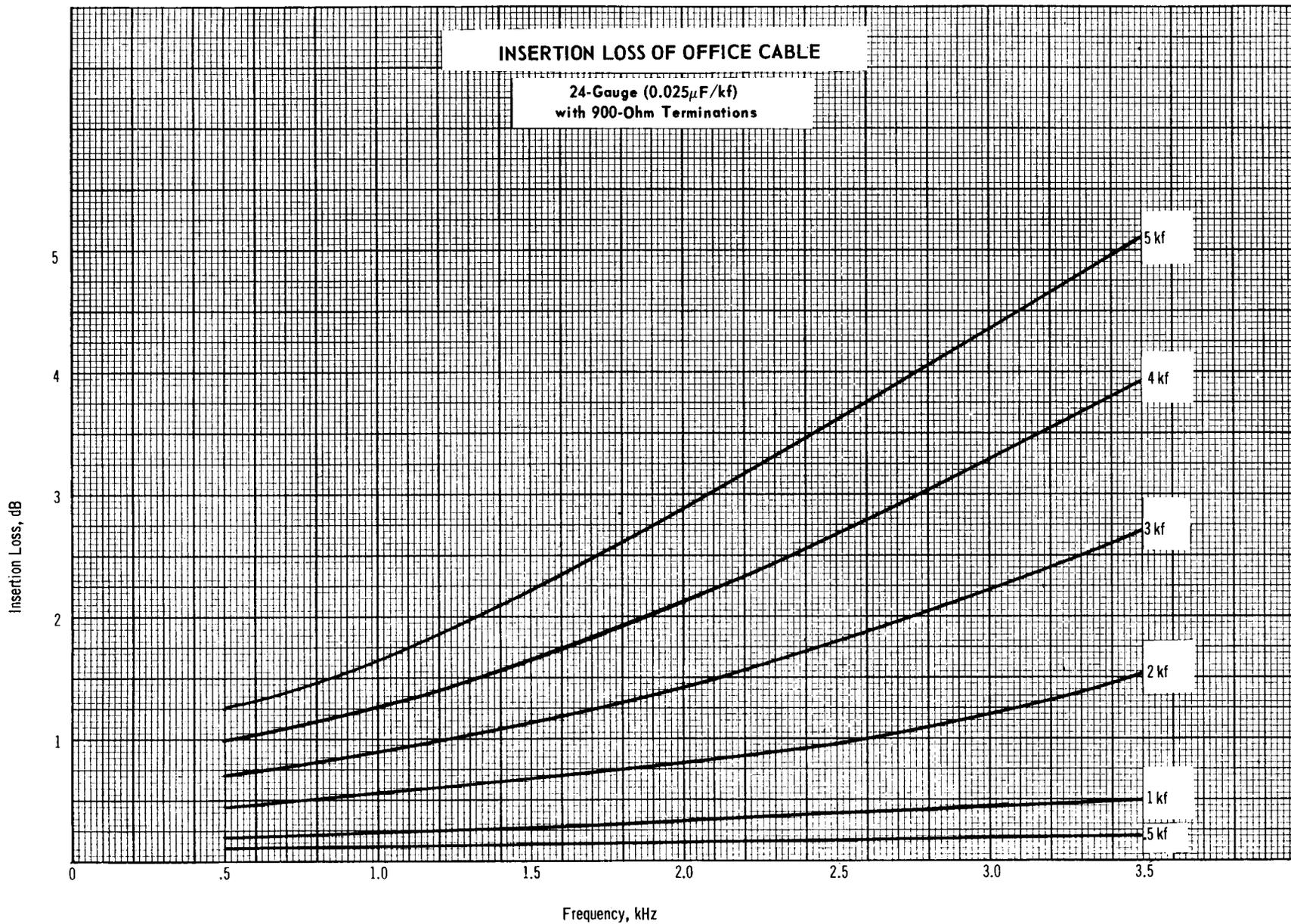
**22-Gauge (0.025 μ F/kf)
with 900-Ohm Terminations**

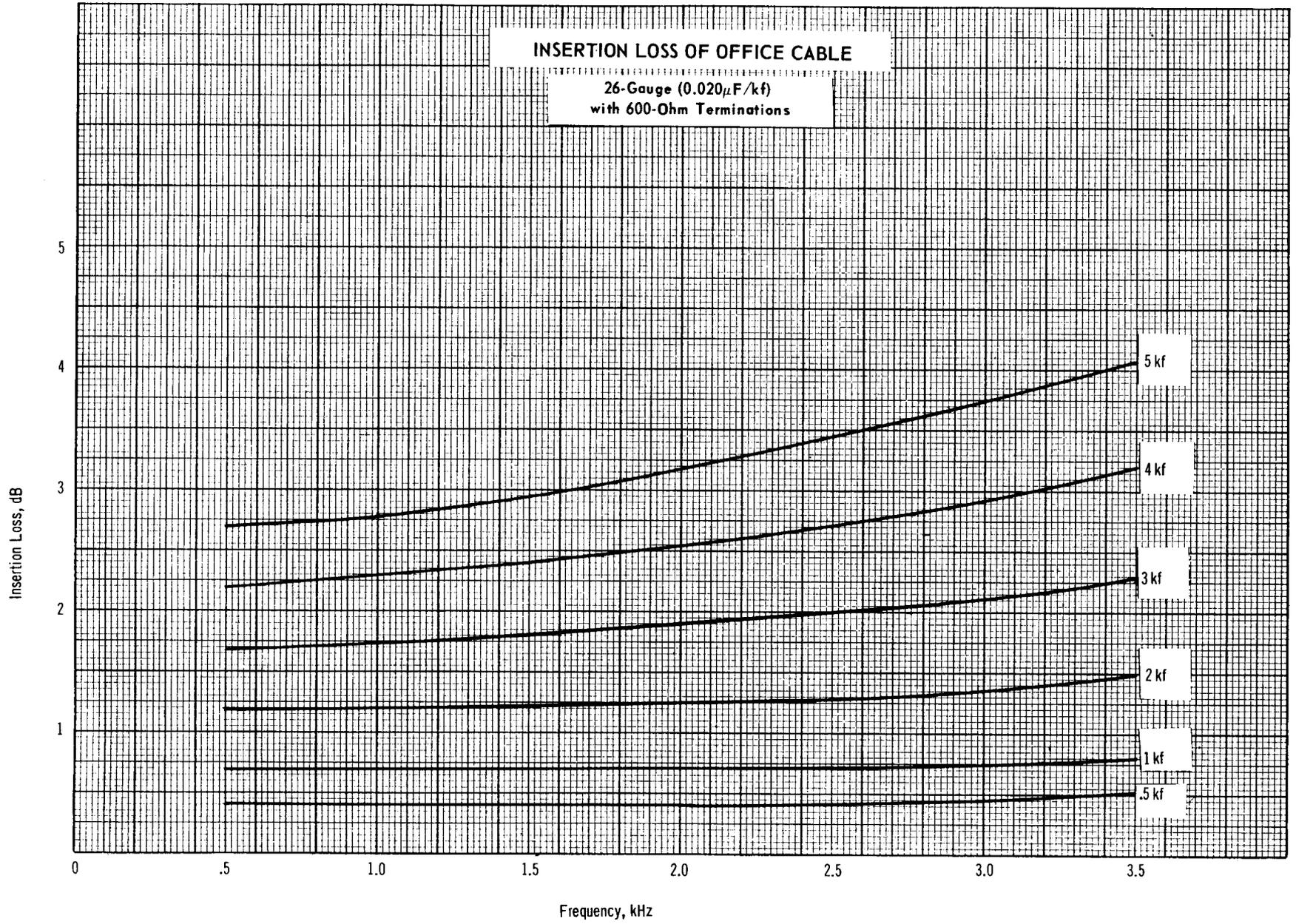




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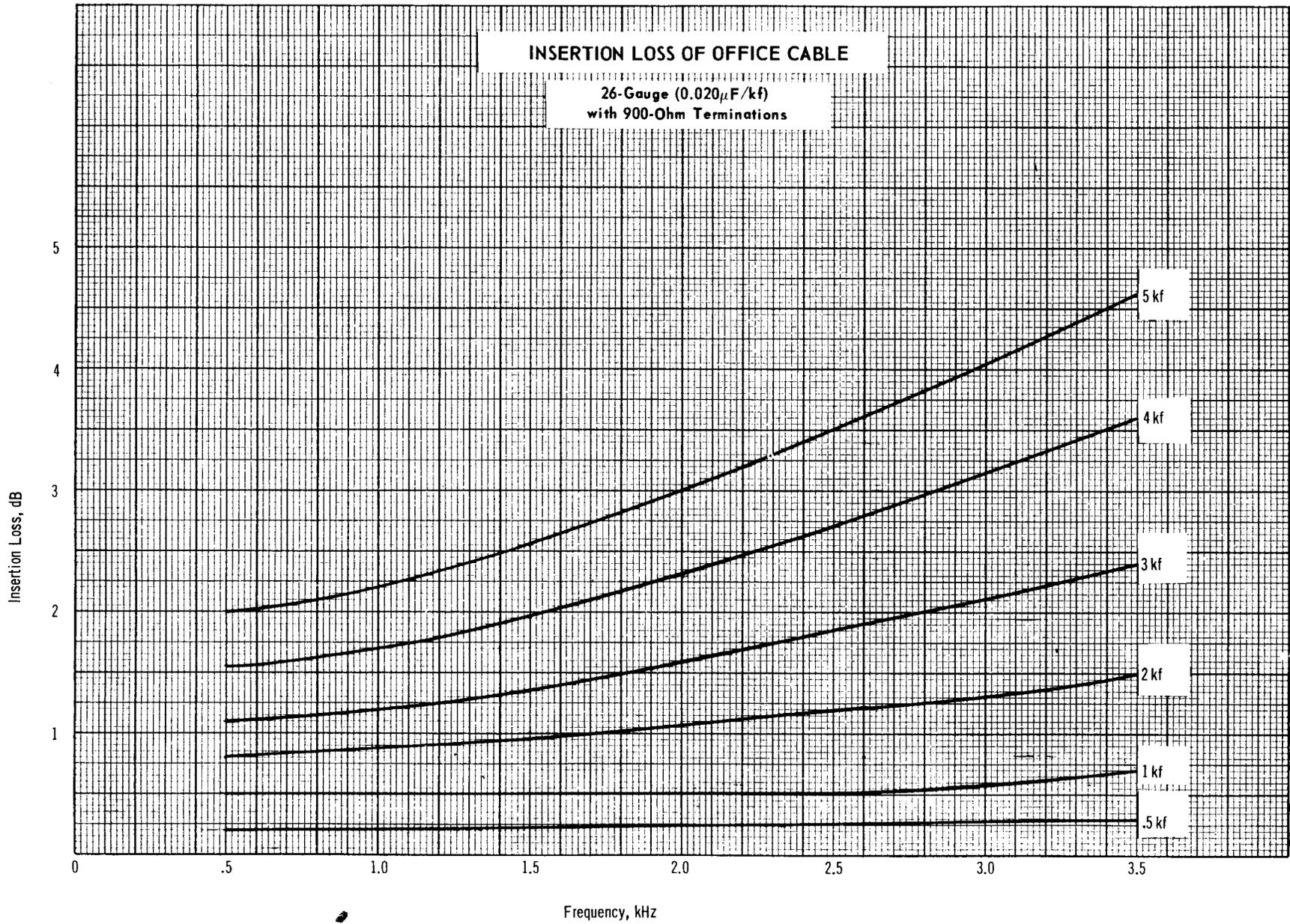
24-Gauge ($0.025\mu\text{F}/\text{kf}$)
with 900-Ohm Terminations

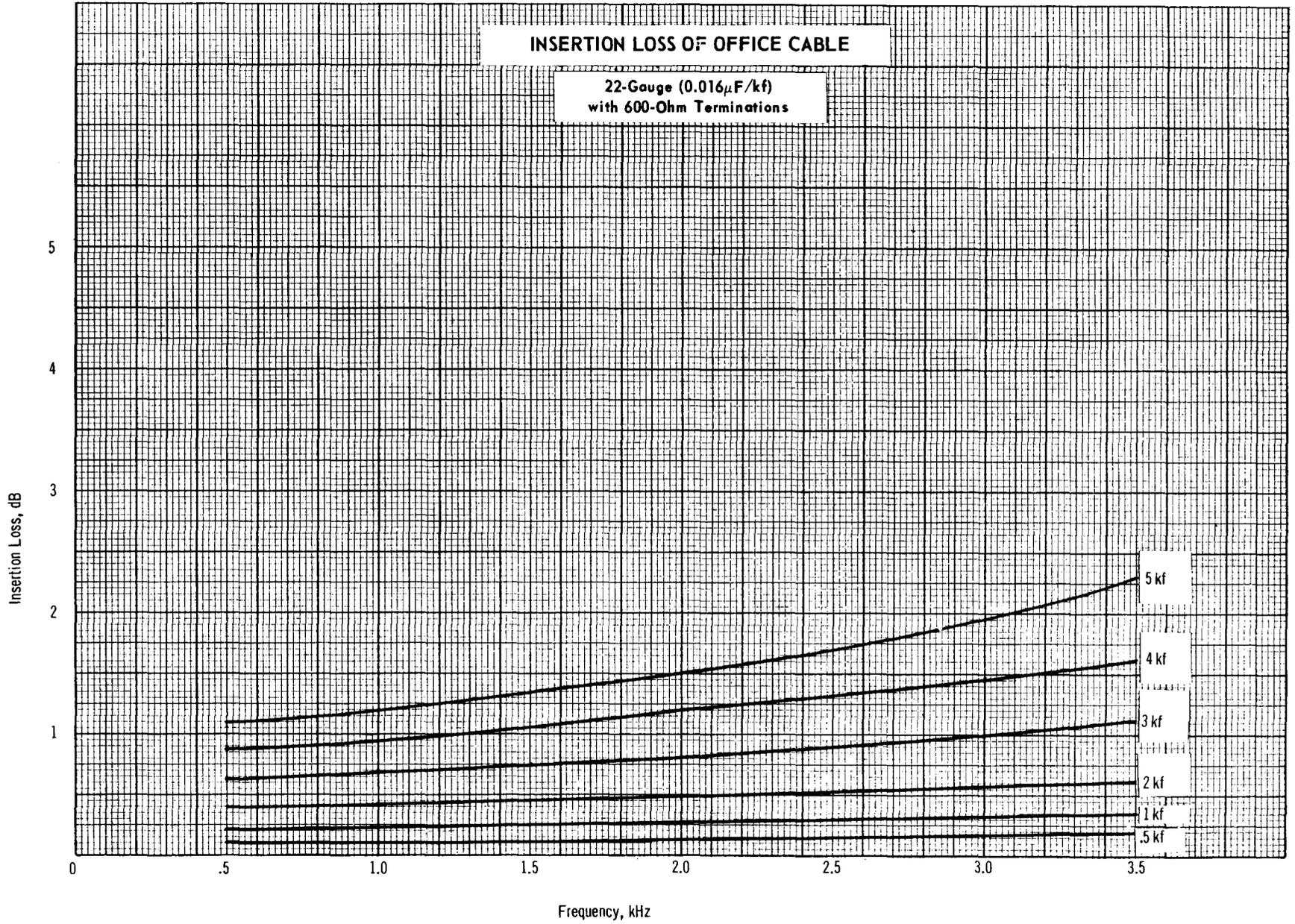




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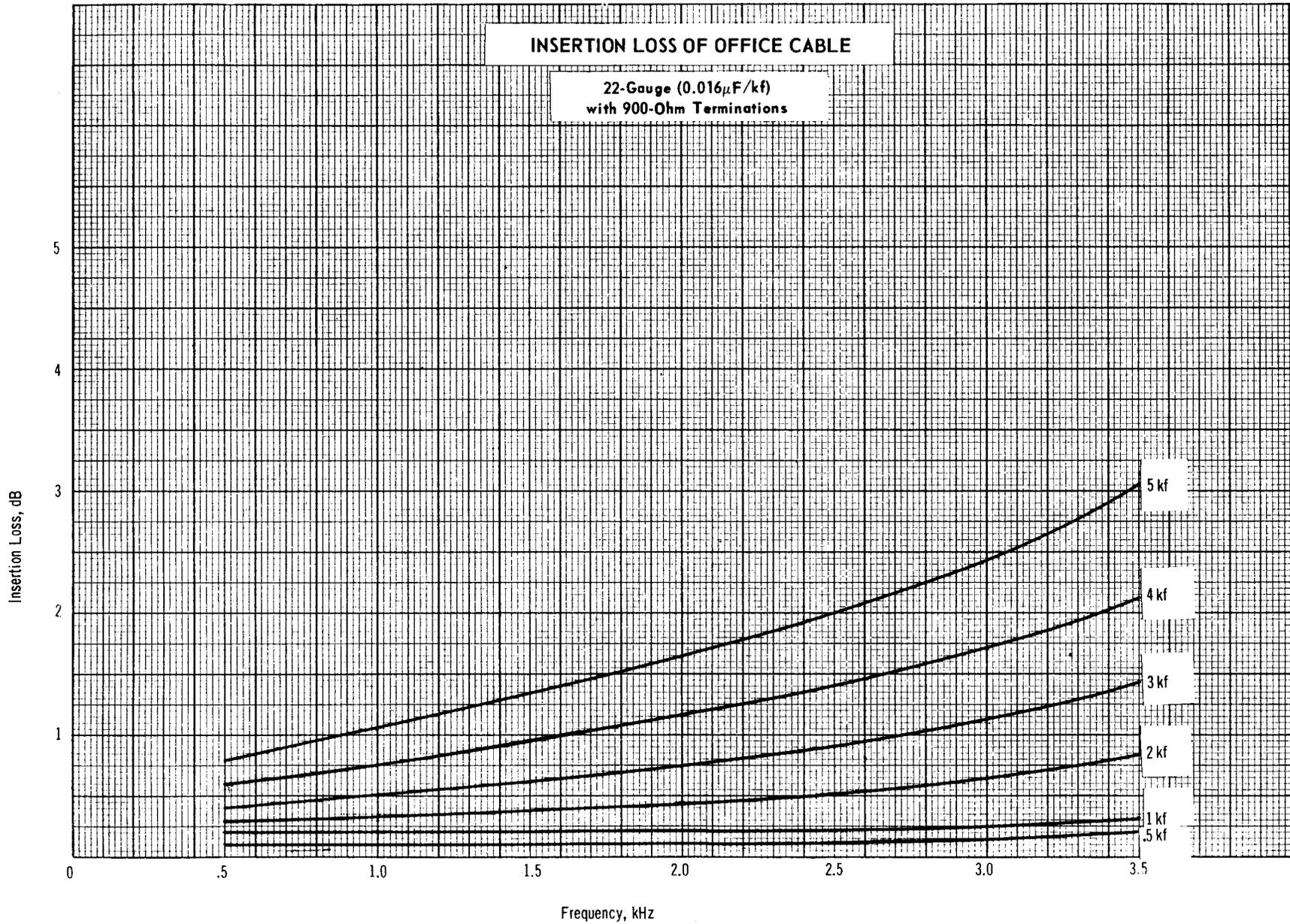
26-Gauge ($0.020\mu\text{F}/\text{kf}$)
with 900-Ohm Terminations

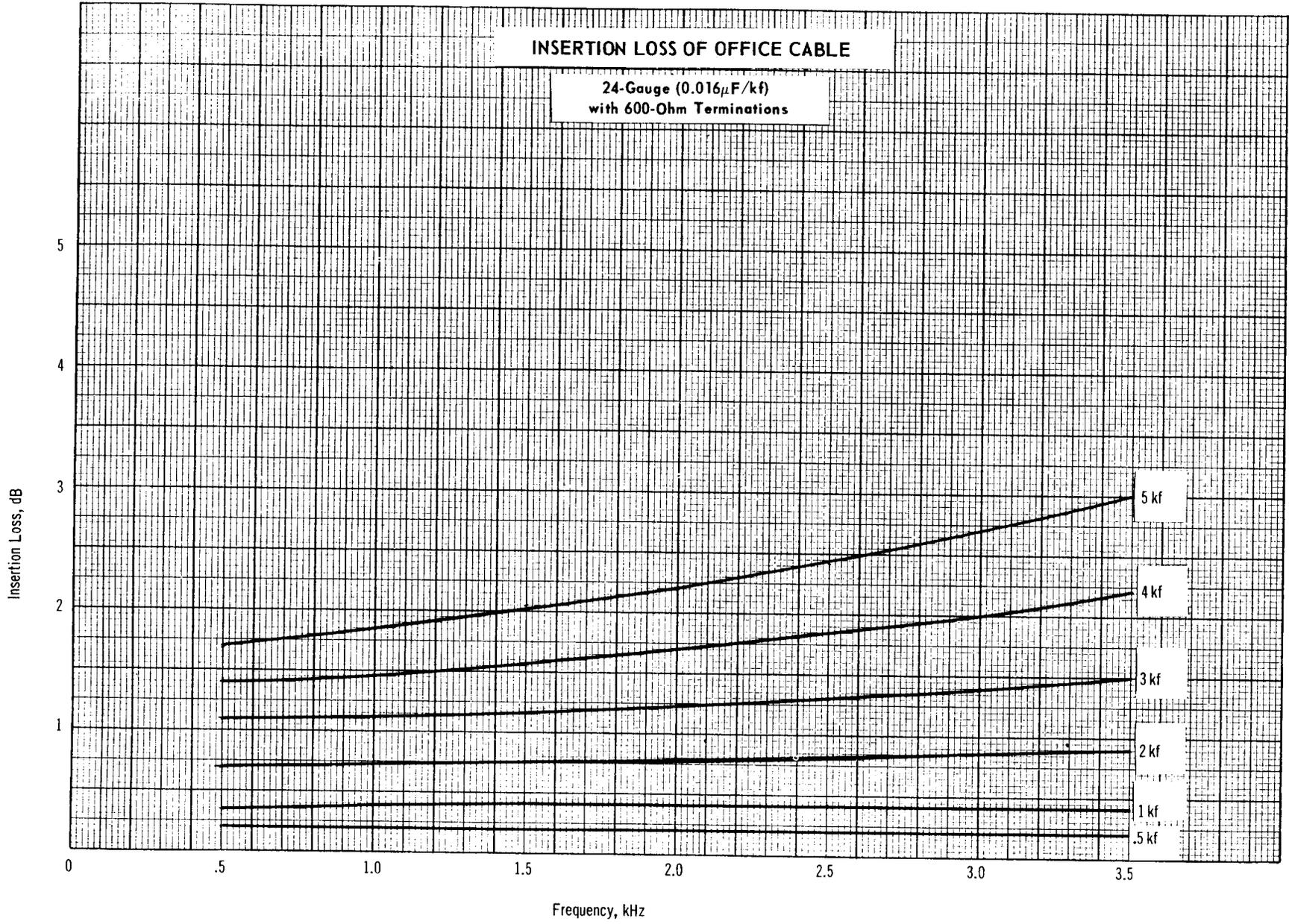




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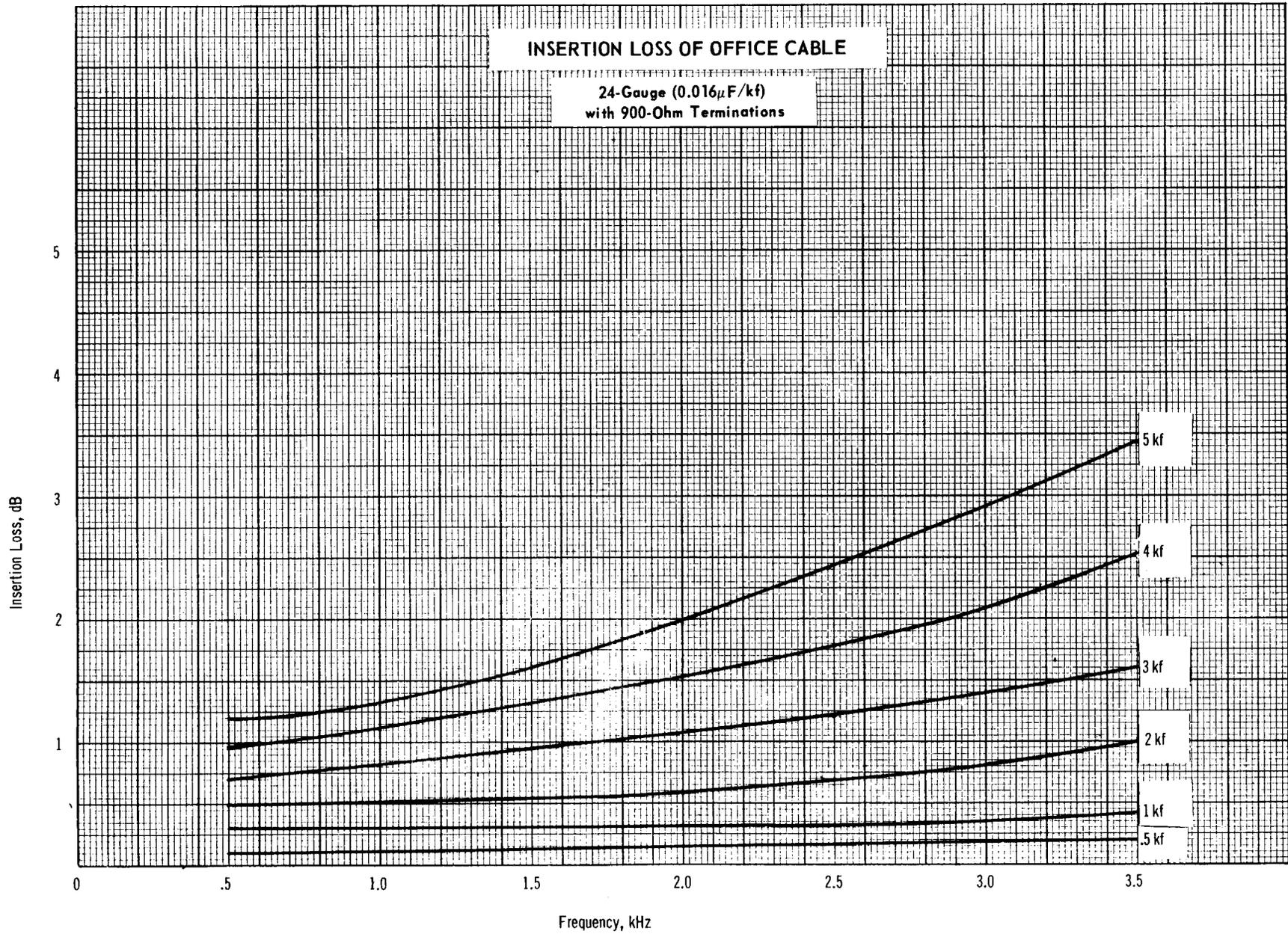
**22-Gauge (0.016 μ F/kf)
with 900-Ohm Terminations**

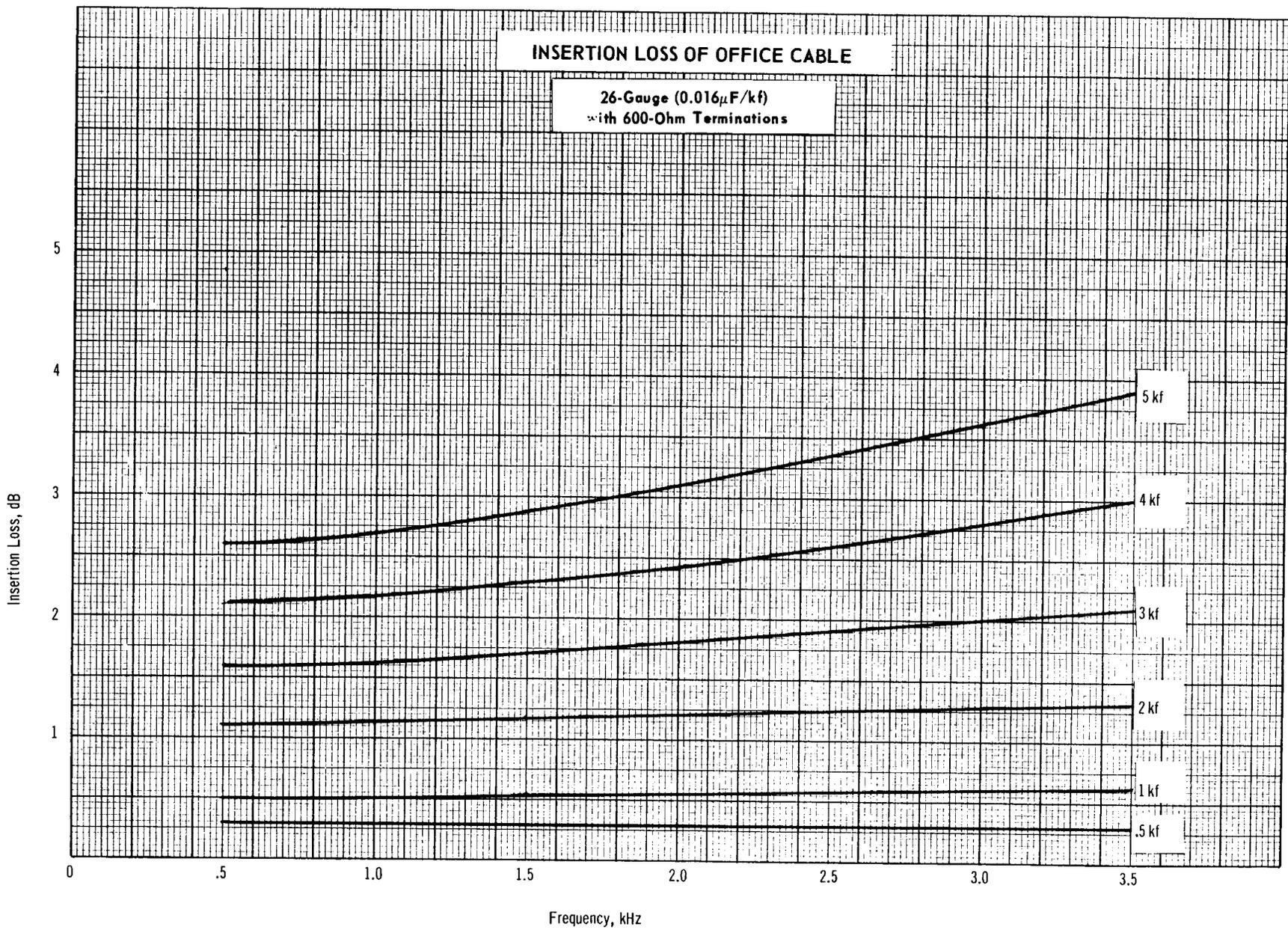




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with 900-Ohm Terminations





INSERTION LOSS OF OFFICE CABLE

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